POWER SUPPLIES

LED DRIVER POWER SUPPLY SWITCHING POWER SUPPLY



POWER SUPPLIES

Contents

Numbering System of Power Supplies	02	Numbering System
Quick Selection	Quick Selection Map for LED Drivers04 Comparison Chart for LED Drivers05	Quick Selection
	H Series Class I	LED Driver - General Series - Outdoor Use - H Series Class I - H Series Class II
General Series	Half Potted Series30	LED Driver - General Series - Outdoor Use - Half Potted Series
Outdoor Use	A Series36	LED Driver - General Series - Outdoor Use - A Series
	Other Series66	LED Driver - General Series - Outdoor Use - Other Series
DALI Intelligent Series Outdoor Use	MU050AxxxAQ_DALI/STB Intelligent Series	LED Driver - Outdoor Use - DALI Intelligent Series
	30W Intelligent Series(A Series) 84 30W Intelligent DALI Series 96 30W Intelligent 0-10V Series 100 30W Intelligent DMX Series 104	
LED Driver Intelligent Series Indoor Use	40W Intelligent DALI Series 108 40W Intelligent 0-10V Series 112 40W Intelligent DMX Series 116	LED Driver - Intelligent Series - 40W Intelligent Series
	50W Intelligent Series(A Series) 120 50W Intelligent DALI Series 144 50W Intelligent 0-10V Series 164 50W Intelligent DMX Series 178	LED Driver - Intelligent Series - 50W Intelligent Series
	96W Intelligent DALI Series	LED Driver - Intelligent Series - 96W Intelligent Series
	Other Series	LED Driver - Intelligent Series - Other Series
General Power Supplies	MF Series188	General Power Supplies - MF Series
SPD	SPD-277	SPD
Appendix	0-10V Dimming Instructions for H Series	

Numbering System of Power Supplies

itch selectable n integer value
n integer value
n integer value
/ current of main circuit in integer value
onstant voltage
onstant current
manufacturer) series
eries
nels combination
patible with PWM dimming (minimum 10% of the
patible with PWM dimming (minimum 0% of the
patible with PWM dimming (clock dimming)
dimming, attenuation compensation function
ming
eation (PLC) dimming
range of input voltage, cannot be damaged in the 9
e
ower supply output
unication
nt fine-tuning
k
ock
function by code stream (Defult value is blank for tecond model begins from 01), and to be shown on

- *1 Series model output power value or powergrade; the LED driver series 3-digit mark.
- *2 In the LED driver series, the 3 digit "XXX" are used to represent the output voltage(V) or output current(mA).

 eg: The output voltage of 48V is labeled as "048", and the output current of 350mA is labeled as "350".
- *3 Output combined mode
- 3.1 Single Output: default value of "0" and can be omitted. "0-9, J-Z" represents a different output specifications. eg: "PU040A070AQ-L" is the LED drivers, PU040A Series, output 38W/700 mA/27-54VDC
- 3.2 Multiple Output: "0" for same output voltage and current (and can be omitted). "0-9, J-Z" for different output specifications.
- *4 Specific function: The power supplies that have the same output power, voltage, current, but have different optional features are designated with different suffixes to distinguish the specific S.P.S. models. There may be several suffixes separated by "/", in sequence.
- 4.1 The first group is fixed to the definition of terminal types.
- 4.2 Typical options:
 - 0-10V 0-10V dimming / compatible with PWM dimming (minimum 10% of the current)
 - 0-10V/OFF 0-10V dimming / compatible with PWM dimming (minimum 0% of the current, OFF function)
 - CLK Clock dimming / compatible with PWM dimming (clock dimming)
 - COL Constant brightness dimming, attenuation compensation function
 - 485 485 BUS dimming
 - DALI DALI dimming
 - DMX DMX dimming
 - **ZIGBEE ZIGBEE wireless dimming**
 - PLC Power line communication (PLC) dimming
 - ACOVP With extremely wide range of input voltage, cannot be damaged in the 90-456Vac input
 - HP Output hot-swappable
 - STB Support accessory power supply output
 - **UART Support UART communication**
 - ADJ Support output current fine-tuning
 - V Vertical terminal block
 - H Horizontal terminal block
 - C Connector
 - L Wiring type
 - RC Remote (ON/OFF) control
 - RS Remote sensing
 - M Motor (application)
 - F Ran (cooling)
 - LT Long life
 - AT Over temperature protection (OTP); automatic recovery
 - HC OCP type: hiccup mode, automatic recovery
 - PF Power failure signal output function
 - PC Parallel connection
 - PV Programmable voltage
- 4.3 If there are several items in (9), the name should be written in sequence.
 - e.g.: MU200H350AQ-0_10V/CLK/DALI/STB-01

Quick Selecti

LED Driver
- General Series
- Outdoor Use
- H Series Class I
- H Series Class II

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver - Outdoor Use - DALI Intelligent Serie

LED Driver
- Intelligent Series
- 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Serie
- Other Series

General Power Supplie

SPE

Append

Quick Selection Map for LED Drivers

์								
	Application	Туре	Shell Material	Series Name	Dimension (L*W*H)	C.C. or C.V.	Dimming	Page
				MU050H	193*42.5*34.5 mm	СС	0-10V / PWM / Resistance / CLK	06
Quick Selection				MU060H	173*67.5*40 mm	СС	0-10V / PWM / Resistance / CLK	08
		General		MU075H	173*67.5*40 mm	CC	0-10V / PWM / Resistance / CLK	10
LED Driver		H Series Class I	Metal Cases	MU100H	187*67.5*40 mm	CC	0-10V / PWM / Resistance / CLK	12
		Olass I		MU120H	202*67.5*40 mm	cc	0-10V / PWM / Resistance / CLK	14
				MU150H	221*67.5*40 mm	CC	0-10V / PWM / Resistance / CLK	16
				MU200H	251*67.5*40 mm	CC	0-10V / PWM / Resistance / CLK	18
			Diserie Osses	PU012H	85*36*23 mm	CC	/ 0.40V / DWM / Desistance	20
		General H Series	Plastic Case	PU025H PU040H	80*78*27 mm 95*70*32 mm	cc	0-10V / PWM / Resistance 0-10V / PWM / Resistance	22
		Class I I		MU150H	221*67.5*40 mm	CC	0-10V / PWM / Resistance / CLK	26
			Metal Case	MU200H	251*67.5*40 mm	CC	0-10V / PWM / Resistance / CLK	28
			Plastic Case	PU030A	120*46*30 mm	CC	0-10V / PWM / Resistance / CLK	30
		General Half-potted		UU060A	140*71*35 mm	СС	0-10V / PWM / Resistance / CLK	32
	Outdoor Use	Series	Metal Case	UF100A	162*71*40 mm	СС	0-10V / PWM / Resistance / CLK	34
			Diagtic Coop	PU012A	85*36*23 mm	CV	/	36
			Plastic Case	PU040A	95*70*32 mm	CV	/	38
				MU050A	193*42.5*34.5 mm	CV	/	44
				MU060A	177*67.5*37 mm	cc	0-10V / PWM / Resistance	46
		General		MU060A	190*67.5*37 mm	CV	/	48
		A Series		MU075A	177*67.5*37 mm	CC	0-10V / PWM / Resistance	50
			Metal Case	MU075A	190*67.5*37 mm	CV	/	52
				MU096A	210*67.5*37 mm	CC,CV	0-10V / PWM / Resistance	54/56
				MU100A	221*67.5*37 mm	CC	0-10V / PWM / Resistance	58/60
				MU150A MU200A	205*86*43 mm	CV	/	62 64
				MU200A MT240H100AQ / 0-10V	223*95*46 mm 223*95*46mm	CC	0-10V / Resistance/ PWM	66
		General	Metal Case	MU240AxxxAQD	223*95*46mm	CC	0-10V/ Resistance	68
		Other Series		MU320HxxxAQ_CP	251*90*44.5 mm	CC	0 ~ 10V / PWM /Resistance/ CLK	70
				MU050AxxxAQ_DALI/STB	203*63.5*40 mm	СС	DALI	72
				MU060AxxxAQ_DALI/STB	241*67.5*37 mm	СС	DALI	74
	Outdoor	DALI	Matalogan	MU084AxxxAQ_DALI/STB	241*67.5*37 mm	СС	DALI	76
	Use	Intelligent	Metal Case	MU100AxxxAQ_DALI/STB	241*67.5*37 mm		DALL	
		Series		MICTOUAXXXAQ_DALI/STB	241 07.3 37 11111	CC	DALI	78
				MU150AxxxAQ_DALI/STB	232*86*43 mm	CC	DALI	78 80
						CC	DALI DALI	
				MU150AxxxAQ_DALI/STB	232*86*43 mm 232*95*46 mm 130*72*28 mm	CC CC	DALI DALI DALI / 0-10V	80 82 84/90
				MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series)	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm	CC CC CC	DALI DALI DALI / 0-10V DALI(Backfeed/Sidefeed)	80 82 84/90 96/98
				MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm	CC CC CC	DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed)	80 82 84/90 96/98 100/102
				MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series)	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm	CC CC CC CC	DALI DALI DALI / 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed)	80 82 84/90 96/98 100/102 104/106
				MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm	CC CC CC CC	DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed)	80 82 84/90 96/98 100/102 104/106
				MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series)	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm	CC CC CC CC CC	DALI DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed)	80 82 84/90 96/98 100/102 104/106 108/110
				MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent 40W intelligent	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm	CC CC CC CC	DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed)	80 82 84/90 96/98 100/102 104/106 108/110 112/114
				MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm	CC CC CC CC CC	DALI DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed)	80 82 84/90 96/98 100/102 104/106 108/110
			Metal Case	MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent 40W intelligent 50W intelligent (A series)	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm	CC CC CC CC	DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed)	80 82 84/90 96/98 100/102 104/106 108/110 112/114
	Indoor	Series	Metal Case	MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent 40W intelligent	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 130*76*30 mm	CC CC CC CC CC CC	DALI DALI DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI/ 0-10V / DMX DALI 0-10V	80 82 84/90 96/98 100/102 104/106 108/110 112/114 116/118
	Indoor Use6	Series	Metal Case	MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent 40W intelligent 50W intelligent (A series)	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 130*76*30 mm 130*76*30 mm 130*76*30 mm 130*76*30 mm	CC CC CC CC CC CC	DALI DALI DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DMX(Dackfeed/Sidefeed) DALI/ 0-10V / DMX DALI 0-10V DALI	80 82 84/90 96/98 100/102 104/106 108/110 112/114 116/118 120/132/140 144-151 166-169 152
		Series	Metal Case	MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent 40W intelligent 50W intelligent (A series)	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 130*76*30 mm 130*76*30 mm 130*76*30 mm 130*76*30 mm	CC CC CC CC CC CC CC	DALI DALI DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI / 0-10V / DMX DALI 0-10V DALI 0-10V	80 82 84/90 96/98 100/102 104/106 108/110 112/114 116/118 120/132/140 144-151 166-169 152 170
		Series	Metal Case	MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent 40W intelligent 50W intelligent (A series)	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 130*76*30 mm 130*76*30 mm 130*76*30 mm 130*76*30 mm	CC	DALI DALI DALI DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DMX(Dackfeed/Sidefeed) DALI/ 0-10V / DMX DALI 0-10V DALI 0-10V DMX	80 82 84/90 96/98 100/102 104/106 108/110 112/114 116/118 120/132/140 144-151 166-169 152 170 178
		Series	Metal Case	MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent 40W intelligent 50W intelligent (A series)	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 130*76*30 mm 130*76*30 mm 130*76*30 mm 130*76*30 mm 130*76*30 mm 130*76*30 mm	CC	DALI DALI DALI DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI/ 0-10V / DMX DALI 0-10V DALI 0-10V DMX DALI 0-10V DMX DALI	80 82 84/90 96/98 100/102 104/106 108/110 112/114 116/118 120/132/140 144-151 166-169 152 170 178 154-163
		Series	Metal Case	MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent 40W intelligent 50W intelligent (A series) 50W intelligent-Compact	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 130*76*30 mm	CC	DALI DALI DALI DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI / 0-10V / DMX DALI 0-10V DALI 0-10V DMX DALI 0-10V DMX DALI 0-10V	80 82 84/90 96/98 100/102 104/106 108/110 112/114 116/118 120/132/140 144-151 166-169 152 170 178 154-163 172-177
		Series	Metal Case	MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent 40W intelligent 50W intelligent (A series) 50W intelligent-Compact	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 130*76*30 mm	CC	DALI DALI DALI DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DMX(Dackfeed/Sidefeed) DALI/ 0-10V / DMX DALI 0-10V DMX DALI 0-10V DMX DALI 0-10V DALI 0-10V DALI	80 82 84/90 96/98 100/102 104/106 108/110 112/114 116/118 120/132/140 144-151 166-169 152 170 178 154-163 172-177
		Series		MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent 40W intelligent 50W intelligent (A series) 50W intelligent-Compact 50W intelligent-Backfeed 50W intelligent-Backfeed	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 130*76*30 mm	CC	DALI DALI DALI DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI / 0-10V / DMX DALI 0-10V DALI 0-10V DMX DALI 0-10V DALI DALI 0-10V DALI	80 82 84/90 96/98 100/102 104/106 108/110 112/114 116/118 120/132/140 144-151 166-169 152 170 178 154-163 172-177 180 182
		Series	Metal Case	MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent 40W intelligent 50W intelligent (A series) 50W intelligent-Compact 50W intelligent-Backfeed 50W intelligent-Slim	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 130*76*30 mm	CC	DALI DALI DALI DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DMX(Dackfeed/Sidefeed) DALI/ 0-10V / DMX DALI 0-10V DMX DALI 0-10V DMX DALI 0-10V DALI 0-10V DALI	80 82 84/90 96/98 100/102 104/106 108/110 112/114 116/118 120/132/140 144-151 166-169 152 170 178 154-163 172-177
		Series Intelligent Series		MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent 40W intelligent 50W intelligent-Compact 50W intelligent-Backfeed 50W intelligent-Backfeed 30W intelligent	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 130*76*30 mm	CC	DALI DALI DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DMX(Dackfeed/Sidefeed) DALI / 0-10V / DMX DALI 0-10V DMX DALI 0-10V DMX DALI 0-10V DALI 0-10V DALI 0-10V DALI 0-10V DALI DALI DALI DALI DALI DALI	80 82 84/90 96/98 100/102 104/106 108/110 112/114 116/118 120/132/140 144-151 166-169 152 170 178 154-163 172-177 180 182 84
		Intelligent Series		MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent 40W intelligent 50W intelligent (A series) 50W intelligent-Compact 50W intelligent-Backfeed 50W intelligent-Backfeed 30W intelligent 30W intelligent MU096l024AP	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 130*76*30 mm	CC	DALI DALI DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI / 0-10V / DMX DALI 0-10V DALI 0-10V DMX DALI 0-10V DMX DALI 0-10V DALI 0-10V DALI 0-10V DALI 0-10V DALI 0-10V DALI DALI DALI D-10V DALI DALI DALI DALI DALI DALI DALI DAL	80 82 84/90 96/98 100/102 104/106 108/110 112/114 116/118 120/132/140 144-151 166-169 152 170 178 154-163 172-177 180 182 84 90 184
		Series Intelligent Series	Plastic Case	MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent 40W intelligent 50W intelligent (A series) 50W intelligent-Compact 50W intelligent-Backfeed 50W intelligent-Blim 96W intelligent-Backfeed 30W intelligent 30W intelligent MU096I024AP DMX/RDM DC-DC module	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 130*76*30 mm 140*30*21 mm 178.8*83.4*31.6 mm 178.8*83.4*31.6 mm 210*40.45*33.5 mm 210*40.45*33.5 mm 300*61.8*30.5*mm	CC	DALI DALI DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI / 0-10V / DMX DALI 0-10V DALI 0-10V DALI 0-10V DMX DALI 0-10V DALI 0-10V DALI 0-10V DALI DMX	80 82 84/90 96/98 100/102 104/106 108/110 112/114 116/118 120/132/140 144-151 166-169 152 170 178 154-163 172-177 180 182 84 90 184
		Intelligent Series	Plastic Case	MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent 40W intelligent 50W intelligent (A series) 50W intelligent-Compact 50W intelligent-Backfeed 50W intelligent-Blim 96W intelligent-Backfeed 30W intelligent 30W intelligent MU096I024AP DMX/RDM DC-DC module MF50 N Series	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 130*76*30 mm 210*40.45*33.5 mm 210*40.45*33.5 mm 210*40.45*33.5 mm 300*61.8*30.5*mm	CC	DALI DALI DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI / 0-10V / DMX DALI 0-10V DALI 0-10V DALI 0-10V DMX DALI 0-10V DALI 0-10V DALI DMX	80 82 84/90 96/98 100/102 104/106 108/110 112/114 116/118 120/132/140 144-151 166-169 152 170 178 154-163 172-177 180 182 84 90 184 186
	Use6	Intelligent Series	Plastic Case Metal Case	MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent 40W intelligent 50W intelligent (A series) 50W intelligent-Compact 50W intelligent-Backfeed 50W intelligent-Blim 96W intelligent-Backfeed 30W intelligent MU096I024AP DMX/RDM DC-DC module MF50 N Series MF100 A Series	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 130*76*30 mm 210*40.45*33.5 mm 210*40.45*33.5 mm 210*40.45*33.5 mm 28*150*17 mm 28*150*17 mm	CC	DALI DALI DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI / 0-10V / DMX DALI 0-10V DALI 0-10V DALI 0-10V DMX DALI 0-10V DALI 0-10V DALI DMX	80 82 84/90 96/98 100/102 104/106 108/110 112/114 116/118 120/132/140 144-151 166-169 152 170 178 154-163 172-177 180 182 84 90 184 186 188
		Intelligent Series	Plastic Case	MU150AxxxAQ_DALI/STB MU200AxxxAQ_DALI/STB 30W intelligent (A series) 30W intelligent 40W intelligent 50W intelligent (A series) 50W intelligent-Compact 50W intelligent-Backfeed 50W intelligent-Blim 96W intelligent-Backfeed 30W intelligent 30W intelligent MU096I024AP DMX/RDM DC-DC module MF50 N Series	232*86*43 mm 232*95*46 mm 130*72*28 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 126*76*30 mm 130*76*30 mm 210*40.45*33.5 mm 210*40.45*33.5 mm 210*40.45*33.5 mm 300*61.8*30.5*mm	CC	DALI DALI DALI DALI DALI/ 0-10V DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) DALI(Backfeed/Sidefeed) 0-10V(Backfeed/Sidefeed) DMX(Backfeed/Sidefeed) DALI / 0-10V / DMX DALI 0-10V DALI 0-10V DALI 0-10V DMX DALI 0-10V DALI 0-10V DALI DMX	80 82 84/90 96/98 100/102 104/106 108/110 112/114 116/118 120/132/140 144-151 166-169 152 170 178 154-163 172-177 180 182 84 90 184 186

MF300A5AG

215*115*25.5mm

4

Comparison Chart for LED Drivers

	PF	=C	AC Input Range					lo		Warranty
Series Name	Single Stage	Two Stage	(VAC)	Potted	C.C. or C.V.	IP	Dimming		Max. Eff.	(years)
PU012A	√		90-305Vac	√	CC,CV	66			85%	5
PU012H	√		90-305Vac	√	СС	66			87%	5
PU025H	√		90-305Vac	√	СС	66	0-10V / PWM / Resistance		89%	5
PU040A	√		90-305Vac	√	CC,CV	66	0-10V / PWM / Resistance		88%	5
PU040H	√		90-305Vac	√	СС	66	0-10V / PWM / Resistance		91%	5
MU050A	√		90-305Vac	√	CC,CV	67	0-10V / PWM / Resistance		92%	5
MU050H	√		90-305Vac	√	СС	67	0-10V / PWM / Resistance / CLK		91%	5
MU060A		√	90-305Vac	√	CC,CV	67	0-10V / PWM / Resistance		91%	5
MU060H	√		90-305Vac	√	СС	67	0-10V / PWM / Resistance / CLK		91%	5
MU075A		√	90-305Vac	√	CC,CV	67	0-10V / PWM / Resistance		91%	5
MU075H	√		90-305Vac	√	СС	67	0-10V / PWM / Resistance / CLK		91%	5
MU096A		√	90-305Vac	√	CC,CV	67	0-10V / PWM / Resistance		90%	5
MU100A		√	90-305Vac	√	CC,CV	67	0-10V / PWM / Resistance		92%	5
MU100H	√		90-305Vac	√	СС	67	0-10V / PWM / Resistance / CLK		91%	5
MU120H	√		90-305Vac	√	СС	67	0-10V / PWM / Resistance / CLK		91%	5
MU150A		√	90-305Vac	√	CC,CV	67	0-10V / PWM / Resistance		92%	5
MU150H		√	90-305Vac	√	CC	67	0-10V / PWM / Resistance / CLK		93%	5
MU200A		√	90-305Vac	√	CC,CV	67	0-10V / PWM / Resistance		92%	5
MU200H		√	90-305Vac	√	CC	67	0-10V / PWM / Resistance / CLK		93.50%	5
PU030A	√		90-305Vac	√ (half)	СС		0-10V / PWM / Resistance / CLK	1	88%	5
UU060A	√		90-305Vac	√ (half)	CC		0-10V / PWM / Resistance / CLK	1	90%	5
UF100A		√	90-305Vac	√ (half)	CC		0-10V / PWM / Resistance / CLK	1	92%	5
MT240H100AQ_0-10V		√	249~528 VAC	√	СС	67	0-10V / PWM / Resistance		90%	5
MU240AxxxAQD		√	90-305 VAC	√	CC	67	0-10V/ Resistance		93%	5
MU320HxxxAQ_CP		√	90-305 VAC	√	CC	67	0-10V / PWM /Resistance/ CLK		94%	5
MU050AxxxAQ_DALI / STB	√		90-305 VAC	√	CC	67	DALI		87%	5
MU060AxxxAQ_DALI / STB		√	90-305 VAC	√	CC	67	DALI		87%	5
MU084AxxxAQ_DALI / STB		√	90-305 VAC	√	CC	67	DALI		88%	5
MU100AxxxAQ_DALI / STB		√	90-305 VAC	√	СС	67	DALI		88%	5
MU150AxxxAQ_DALI / STB		√	90-305 VAC	√	СС	67	DALI		90%	5
MU200AxxxAQ_DALI / STB		√	90-305 VAC	√	СС	67	DALI		92%	5
30W intelligent		√	90-305Vac		CC	20	DALI / DMX / 0-10V	1	87%	5
40W intelligent		√	90-305Vac		СС	20	DALI / DMX / 0-10V	1	88%	5
50W intelligent		√	90-305Vac		CC	20	DALI / DMX / 0-10V	1	89%	5
96W intelligent-Backfeed		√	90-305Vac		CC	20	DALI / DMX	1	88%	5
		√	90-305Vac		CC	20	DMX	1	88%	5
MU096I024AP		√	90-305Vac		CV	20	DALI	1	88%	5

MU050H Class I Series

Features

Input voltage: 90-305VAC
High efficiency: 91% typical
Active PFC: 0.99 typical
High surge immunity

Low THDIP67 compliant

• Protections: OVP, OCP, OTP, SCP

• Constant Current / 0-10V Dimming / Clock Dimming(CLK)

• Compliance to worldwide safety regulations for lighting

• Suitable for dry/damp locations

• CUL

• 5-year warranty



193 x 42.5 x 34.5mm

Electrical Specifications

Input voltage range	90~305VAC				
Frequency	47~63Hz				
Power factor	0.99 (typical), > 0.90 100~277VACinput, 75%~100% load				
Input current	0.7A at 100VAC, 0.35A at 220VAC				
Inrush current	50A MAX at 230VAC				
Leakage current	0.75mA at 277Vac/60Hz input				
Maximum output power	50W				
Line regulation	± 3%				
Load regulation	±3%				
Start-up time	<1.5s at 120VAC, <0.75s at 220VAC				
Protections	over voltage, over current, over temperature, short circuit: auto recovery				
THD	<10%, 220VAC, 50Hz input, 80%~100% load <15%, 110VAC/277VAC, 60Hz input, 80%~100% load				

Environmental Specifications

Operating temperature	-40℃ ~ +70℃
Operating humidity	20% ~ 95% RH
Storage temperature	-40℃ ~ +80℃
Storage humidity	10% ~ 95% RH
Cooling method	convection
Isolation voltage	input / output 3750VAC
MTBF	300,000 hours full load at 25℃ ambient
Life time	50,000 hours, 75°C TC
Reference dimension (L x W x H)	193 x 42.5 x 34.5 (mm)
Weight	0.55 kg

CUL	UL8750, UL1012, UL1310, CSA-C22.2 NO. 107.1, CSA-C22.2 NO. 223-M91
CE	EN 61347-1, EN61347-2-13
Conducted emissions	FCC Part15 Class B/ EN55015
Radiated emissions	FCC Part15 Class B/ EN55015
Harmonic current emissions	EN61000-3-2
Voltage fluctuations and flicker	EN61000-3-3
Electrostatic discharge	EN61000-4-2
RFE field susceptibility	EN61000-4-3
Electrical fast transient	EN61000-4-4
Surge immunity test	EN61000-4-5 (Surge: L-N, 4KV, L/N-Earth, 6KV)
Conducted radio frequency	EN61000-4-6
Power frequency magnetic field test	EN61000-4-8
Voltage dips	EN61000-4-11
Electromagnetic immunity	EN61547

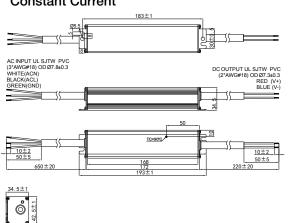
Model			Output	Output	Current	Efficiency (typical)	
Constant Current	0-10V Dimming	Clock Dimming	Current	Voltage	Accuracy	110Vac	220Vac
MU050H035AQ	MU050H035AQ_0-10V	MU050H035AQ_CLKS	350mA	71-142VDC	± 5%	90.0%	91.0%
MU050H045AQ	MU050H045AQ_0-10V	MU050H045AQ_CLKS	450mA	55-111VDC	± 5%	90.0%	91.0%
MU050H070AQ	MU050H070AQ_0-10V	MU050H070AQ_CLKS	700mA	36-72VDC	± 5%	89.0%	90.0%
MU050H105AQ	MU050H105AQ_0-10V	MU050H105AQ_CLKS	1050mA	24-48VDC	± 5%	89.0%	90.0%
MU050H140AQ	MU050H140AQ_0-10V	MU050H140AQ_CLKS	1400mA	18-36VDC	± 5%	88.0%	89.0%
MU050H175AQ	MU050H175AQ_0-10V	MU050H175AQ_CLKS	1750mA	14-29VDC	± 5%	88.0%	89.0%
MU050H210AQ	MU050H210AQ_0-10V	MU050H210AQ_CLKS	2100mA	12-24VDC	± 5%	87.0%	88.0%
MU050H245AQ	MU050H245AQ_0-10V	MU050H245AQ_CLKS	2450mA	10-20VDC	± 5%	87.0%	88.0%
MU050H280AQ	MU050H280AQ_0-10V	MU050H280AQ_CLKS	2800mA	9-18VDC	± 5%	86.0%	87.0%
MU050H315AQ	MU050H315AQ_0-10V	MU050H315AQ_CLKS	3150mA	8-16VDC	± 5%	84.0%	85.0%

Remarks: 1.The function instruction can be found in the Appendix Page 199\ Page 202.

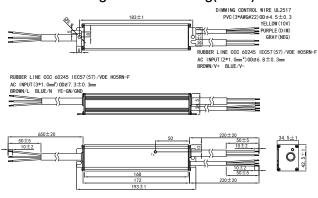
2. For the Clock Dimming function driver, there is MU50HXXXAQ_CLK and MU50HXXXAQ_CLKS

■ Mechanical Outline (unit: mm)

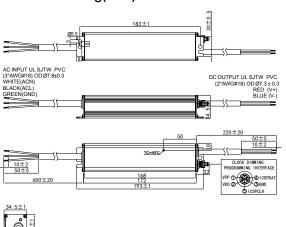
Constant Current



0-10V Dimming / Clock Dimming(CLKS)



Clock Dimming(CLK)



LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Serie

General
Power Supplie
- MF Series

SPF

.

Quick

LED Driver - General Series - Outdoor Use - H Series Class I

- General Series
- Outdoor Use
- Half Potted Series

- General Series - Outdoor Use - A Series

- General Series
- Outdoor Use
- Other Series

- Outdoor Use - DALI Intelligent Seri

LED Driver
- Intelligent Serie:

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Series
- Other Series
General

SPD

MU060H Class I Series

Features

Input voltage: 90-305VAC
High efficiency: 91% typical
Active PFC: 0.99 typical
High surge immunity

Low THDIP67 compliant

• Protections: OVP, OCP, OTP, SCP

• Constant Current/0-10V Dimming/Clock Dimming(CLK)/Standby(STB)

• Compliance to worldwide safety regulations for lighting

• Suitable for dry/damp locations

• CUL/CE

• 5-year warranty



173 x 67.5 x 40mm

Electrical Specifications

Input voltage range	90~305VAC				
Frequency	47~63Hz				
Power factor	0.99 (typical), >0.90 100~277VAC input, 75%~100% load				
Input current	0.8A at 110VAC, 0.4A at 220VAC				
Inrush current	50A MAX at 230VAC				
Leakage current 0.75mA at 277Vac/60Hz input					
Maximum output power	60W				
Line regulation	±1%				
Load regulation	± 3%				
Start-up time	<1.5s at 110VAC, <0.75s at 220VAC				
Protections	over voltage, over current, over temperature, short circuit: auto recovery				
THD	<10%, 220VAC, 50Hz input, 70%~100% load <15%, 110VAC/277VAC, 60Hz input, 70%~100% load				

Environmental Specifications

Operating temperature	-40℃ ~ +70℃
Operating humidity	20% ~ 95% RH
Storage temperature	-40℃ ~ +80℃
Storage humidity	10% ~ 95% RH
Cooling method	convection
Isolation voltage	input / output 3750VAC
MTBF	300,000 hours full load at 25℃ ambient
Life time	50,000 hours, 75℃ TC
Reference dimension (L x W x H)	173 x 67.5 x 40 (mm)
Weight	0.8 kg

UL8750, UL1012, UL1310, CSA-C22.2 NO. 107.1, CSA-C22.2 NO. 223-M91
EN 61347-1, EN61347-2-13
FCC Part15 Class B / EN55015
FCC Part15 Class B / EN55015
EN61000-3-2
EN61000-3-3
EN61000-4-2
EN61000-4-3
EN61000-4-4
EN61000-4-5 (Surge: L-N, 4KV, L/N-Earth, 6KV)
EN61000-4-6
EN61000-4-8
EN61000-4-11
EN61547

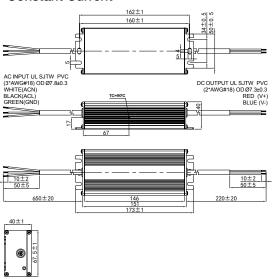
Model			Output	Output	Current	Efficiency (typical)		
Constant Current	0-10V Dimming	Clock Dimming	Standby	Current	Voltage	Accuracy	110Vac	220Vac
MU060H035AQ	MU060H035AQ_0-10V	MU060H035AQ_CLKS	MU060H035AQ_STB	350mA	85-170VDC	± 5%	90.0%	91.0%
MU060H045AQ	MU060H045AQ_0-10V	MU060H045AQ_CLKS	MU060H045AQ_STB	450mA	67-134VDC	± 5%	90.0%	91.0%
MU060H053AQ	MU060H053AQ_0-10V	MU060H053AQ_CLKS	MU060H053AQ_STB	530mA	56-113VDC	± 5%	90.0%	91.0%
MU060H070AQ	MU060H070AQ_0-10V	MU060H070AQ_CLKS	MU060H070AQ_STB	700mA	43-86VDC	± 5%	89.0%	90.0%
MU060H105AQ	MU060H105AQ_0-10V	MU060H105AQ_CLKS	MU060H105AQ_STB	1050mA	29-58VDC	± 5%	89.0%	90.0%
MU060H140AQ	MU060H140AQ_0-10V	MU060H140AQ_CLKS	MU060H140AQ_STB	1400mA	21-43VDC	± 5%	88.0%	89.0%
MU060H175AQ	MU060H175AQ_0-10V	MU060H175AQ_CLKS	MU060H175AQ_STB	1750mA	17-35VDC	± 5%	88.0%	89.0%
MU060H210AQ	MU060H210AQ_0-10V	MU060H210AQ_CLKS	MU060H210AQ_STB	2100mA	14-29VDC	± 5%	87.0%	88.0%
MU060H245AQ	MU060H245AQ_0-10V	MU060H245AQ_CLKS	MU060H245AQ_STB	2450mA	12-25VDC	± 5%	86.0%	87.0%
MU060H280AQ	MU060H280AQ_0-10V	MU060H280AQ_CLKS	MU060H280AQ_STB	2800mA	10-21VDC	± 5%	85.0%	86.0%
MU060H315AQ	MU060H315AQ_0-10V	MU060H315AQ_CLKS	MU060H315AQ_STB	3150mA	9-19VDC	± 5%	84.0%	85.0%
MU060H350AQ	MU060H350AQ_0-10V	MU060H350AQ_CLKS	MU060H350AQ_STB	3500mA	8-17VDC	± 5%	83.0%	84.0%
MU060H420AQ	MU060H420AQ_0-10V	MU060H420AQ_CLKS	MU060H420AQ_STB	4200mA	7-14VDC	± 5%	82.0%	83.0%
MU060H500AQ	MU060H500AQ_0-10V	MU060H500AQ_CLKS	MU060H500AQ_STB	5000mA	6-12VDC	± 5%	81.0%	82.0%

Remarks: 1.The function instruction can be found in the Appendix Page 199~Page 204

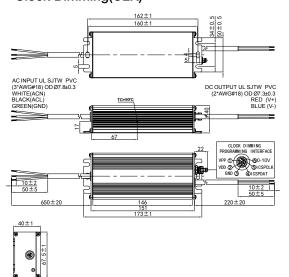
2. For the Clock Dimming function driver, there is MU60HXXXAQ_CLK and MU60HXXXAQ_CLKS

Mechanical Outline (unit: mm)

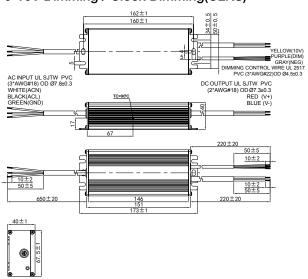
Constant Current



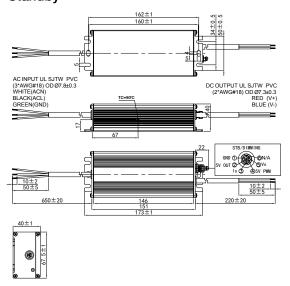
Clock Dimming(CLK)



0-10V Dimming / Clock Dimming(CLKS)



Standby



Numberi System

Quick Selecti

LED Driver
- General Series
- Outdoor Use
- H Series Class I

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Serie
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver - Outdoor Use - DALI Intelligent Serie

LED Driver
- Intelligent Series
- 30W Intelligent Series

ED Driver Intelligent Series 40W Intelligent Series

LED Driver
- Intelligent Serie

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series
General

SPD

Append

Quick Selection

LED Driver - General Series - Outdoor Use - H Series Class I

- General Series
- Outdoor Use
- Half Potted Series

- General Serie - Outdoor Use - A Series

General SeriesOutdoor UseOther Series

LED Driver
- Outdoor Use
- DALI Intelligent Serie

LED Driver
- Intelligent Serie
- 30W Intelligent Serie

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Series
- Other Series
General

SPD

MU075H Class I Series

Features

Input voltage: 90-305VAC
High efficiency: 91% typical
Active PFC: 0.99 typical
High surge immunity

Low THDIP67 compliant

• Protections: OVP, OCP, OTP, SCP

• Constant Current/0-10V Dimming/Clock Dimming(CLK)/Standby(STB)

· Compliance to worldwide safety regulations for lighting

• Suitable for dry/damp locations

• CUL/CE

• 5-year warranty



173 x 67.5 x 40mm

Electrical Specifications

Input voltage range	90~305VAC
Frequency	47~63Hz
Power factor	0.99 (typical), > 0.90 100~277VAC input, 75%~100% load
Input current	1A at 110VAC, 0.5A at 220VAC
Inrush current	60A at 230VAC input 25℃ cold start
Leakage current	0.75mA MAX at 277Vac/60Hz input
Maximum output power	75W
Line regulation	±1%
Load regulation	± 3%
Start-up time	<1.5s at 110VAC, <0.75s at 220VAC
Protections	over voltage, over current, over temperature, short circuit: auto recovery
THD	<10%, 220VAC, 50Hz input, 70%~100% load <15%, 110VAC/277VAC, 60Hz input, 70%~100% load

Environmental Specifications

Operating temperature	-40℃ ~ +70℃
Operating humidity	20% ~ 95% RH
Storage temperature	-40℃ ~ +80℃
Storage humidity	10% ~ 95% RH
Cooling method	convection
Isolation voltage	input / output 3750VAC
MTBF	300,000 hours full load at 25°C ambient
Life time	50,000 hours, 75°C TC
Reference dimension (L x W x H)	173 x 67.5 x 40 (mm)
Weight	0.8 kg

CUL	UL8750, UL1012, UL1310, CSA-C22.2 NO. 107.1, CSA-C22.2 NO. 223-M91
CE	EN 61347-1, EN61347-2-13
Conducted emissions	FCC Part15 Class B / EN55015
Radiated emissions	FCC Part15 Class B / EN55015
Harmonic current emissions	EN61000-3-2
Voltage fluctuations and flicker	EN61000-3-3
Electrostatic discharge	EN61000-4-2
RFE field susceptibility	EN61000-4-3
Electrical fast transient	EN61000-4-4
Surge immunity test	EN61000-4-5 (Surge: L-N, 4KV, L/N-Earth, 6KV)
Conducted radio frequency	EN61000-4-6
Power frequency magnetic field test	EN61000-4-8
Voltage dips	EN61000-4-11
Electromagnetic immunity	EN61547

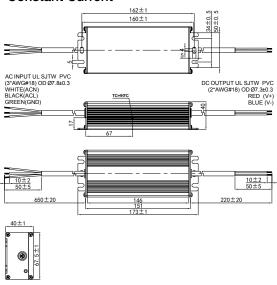
Model		Output	Output	Current	Efficiency	(typical)		
Constant Current	0-10V Dimming	Clock Dimming	Standby	Current	Voltage	Accuracy	110Vac	220Vac
MU075H035AQ	MU075H035AQ_0-10V	MU075H035AQ_CLKS	MU075H035AQ_STB	350mA	107-214VDC	± 5%	90.0%	91.0%
MU075H045AQ	MU075H045AQ_0-10V	MU075H045AQ_CLKS	MU075H045AQ_STB	450mA	83-166VDC	± 5%	90.0%	91.0%
MU075H053AQ	MU075H053AQ_0-10V	MU075H053AQ_CLKS	MU075H053AQ_STB	530mA	71-142VDC	± 5%	89.0%	90.0%
MU075H070AQ	MU075H070AQ_0-10V	MU075H070AQ_CLKS	MU075H070AQ_STB	700mA	54-108VDC	± 5%	89.0%	90.0%
MU075H105AQ	MU075H105AQ_0-10V	MU075H105AQ_CLKS	MU075H105AQ_STB	1050mA	36-72VDC	± 5%	89.0%	90.0%
MU075H140AQ	MU075H140AQ_0-10V	MU075H140AQ_CLKS	MU075H140AQ_STB	1400mA	27-54VDC	± 5%	88.0%	89.0%
MU075H175AQ	MU075H175AQ_0-10V	MU075H175AQ_CLKS	MU075H175AQ_STB	1750mA	21-43VDC	± 5%	88.0%	89.0%
MU075H210AQ	MU075H210AQ_0-10V	MU075H210AQ_CLKS	MU075H210AQ_STB	2100mA	18-36VDC	± 5%	87.0%	88.0%
MU075H245AQ	MU075H245AQ_0-10V	MU075H245AQ_CLKS	MU075H245AQ_STB	2450mA	15-31VDC	± 5%	87.0%	88.0%
MU075H280AQ	MU075H280AQ_0-10V	MU075H280AQ_CLKS	MU075H280AQ_STB	2800mA	13-27VDC	± 5%	86.0%	87.0%
MU075H315AQ	MU075H315AQ_0-10V	MU075H315AQ_CLKS	MU075H315AQ_STB	3150mA	12-24VDC	± 5%	86.0%	87.0%
MU075H375AQ	MU075H375AQ_0-10V	MU075H375AQ_CLKS	MU075H375AQ_STB	3750mA	10-20VDC	± 5%	85.0%	86.0%
MU075H420AQ	MU075H420AQ_0-10V	MU075H420AQ_CLKS	MU075H420AQ_STB	4200mA	9-18VDC	± 5%	85.0%	86.0%
MU075H500AQ	MU075H500AQ_0-10V	MU075H500AQ_CLKS	MU075H500AQ_STB	5000mA	7-15VDC	± 5%	84.0%	85.0%

Remarks: 1.The function instruction can be found in the Appendix Page 199~Page 204.

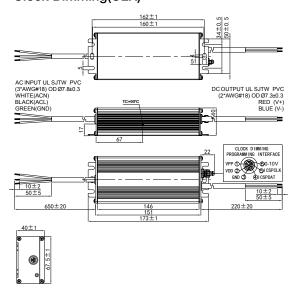
2. For the Clock Dimming function driver, there is MU75HXXXAQ_CLK and MU75HXXXAQ_CLKS

Mechanical Outline (unit: mm)

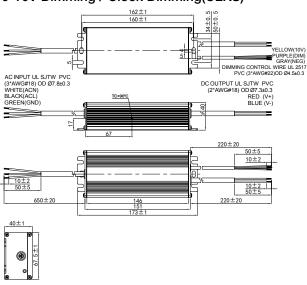
Constant Current



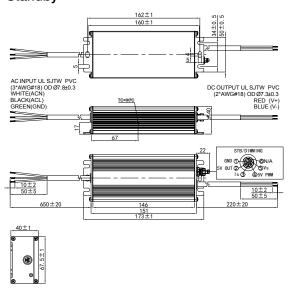
Clock Dimming(CLK)



0-10V Dimming / Clock Dimming(CLKS)



Standby



Number System

Quick

LED Driver
- General Series
- Outdoor Use
- H Series Class I

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Seri

LED Driver
- Intelligent Series
- 30W Intelligent Serie

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver Intelligent Series 50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series
General

SPD

Appendi

Quick Selection

LED Driver
- General Series
- Outdoor Use
- H Series Class I

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

- General Series - Outdoor Use - A Series

- General Series - Outdoor Use - Other Series

- Outdoor Use - DALI Intelligent Seri

LED Driver
- Intelligent Serie
- 30W Intelligent Serie

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Series
- Other Series

General

SPD

MU100H Class I Series

Features

Input voltage: 90-305VAC
High efficiency: 91% typical
Active PFC: 0.99 typical
High surge immunity

Low THDIP67 compliant

• Protections: OVP, OCP, OTP, SCP

• Constant Current/0-10V Dimming/Clock Dimming(CLK)/Standby(STB)

· Compliance to worldwide safety regulations for lighting

• Suitable for dry/damp locations

• CUL/CE

• 5-year warranty



187 x 67.5 x 40mm

Electrical Specifications

Input voltage range	90~305VAC			
Frequency	47~63Hz			
Power factor	0.99 (typical), > 0.90 100~277VAC input, 80%~100% load			
Input current	1.2A at 110VAC, 0.6A at 220VAC			
Inrush current	15A at 230VAC input			
Leakage current	1mA MAX at 277Vac/50Hz input			
Maximum output power	100W			
Line regulation	±1%			
Load regulation	±3%			
Start-up time	<1.2s at 110VAC, <1s at 220VAC			
Protections	over voltage, over current, over temperature, short circuit: auto recovery			
THD	<10%, 220VAC, 50Hz input, 80%~100% load <15%, 110VAC/277VAC, 60Hz input, 80%~100% load			

Environmental Specifications

Operating temperature	-40℃ ~ +70℃
Operating humidity	10% ~ 95% RH
Storage temperature	-40℃ ~ +80℃
Storage humidity	5% ~ 95% RH
Cooling method	convection
Isolation voltage	input / output 3750VAC
MTBF	300,000 hours full load at 25°C ambient
Life time	50,000 hours, 75°C TC
Reference dimension (L x W x H)	187 x 67.5 x 40 (mm)
Weight	0.85 kg

CUL	UL8750, UL1012, UL1310, CSA-C22.2 NO. 107.1, CSA-C22.2 NO. 223-M91
CE	EN 61347-1, EN61347-2-13
Conducted emissions	FCC Part15Class B / EN55015
Radiated emissions	FCC Part15Class B / EN55015
Harmonic current emissions	EN61000-3-2
Voltage fluctuations and flicker	EN61000-3-3
Electrostatic discharge	EN61000-4-2
RFE field susceptibility	EN61000-4-3
Electrical fast transient	EN61000-4-4
Surge immunity test	EN61000-4-5 (Surge: L-N, 4KV, L/N-Earth, 6KV)
Conducted radio frequency	EN61000-4-6
Power frequency magnetic field test	EN61000-4-8
Voltage dips	EN61000-4-11
Electromagnetic immunity	EN61547

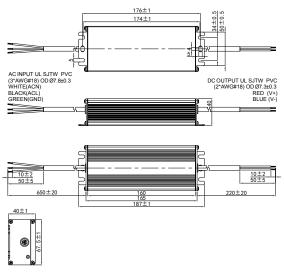
Model		Output	Output	Current	Efficiency	(typical)		
Constant Current	0-10V Dimming	Clock Dimming	Standby	Current	Voltage	Accuracy	110Vac	220Vac
MU100H035AQ	MU100H035AQ_0-10V	MU100H035AQ_CLKS	MU100H035AQ_STB	350mA	143-286VDC	± 5%	89.0%	91.0%
MU100H045AQ	MU100H045AQ_0-10V	MU100H045AQ_CLKS	MU100H045AQ_STB	450mA	111-222VDC	± 5%	89.0%	91.0%
MU100H053AQ	MU100H053AQ_0-10V	MU100H053AQ_CLKS	MU100H053AQ_STB	530mA	94-188VDC	± 5%	89.0%	91.0%
MU100H070AQ	MU100H070AQ_0-10V	MU100H070AQ_CLKS	MU100H070AQ_STB	700mA	71-143VDC	± 5%	89.0%	91.0%
MU100H105AQ	MU100H105AQ_0-10V	MU100H105AQ_CLKS	MU100H105AQ_STB	1050mA	48-95VDC	± 5%	88.0%	90.0%
MU100H140AQ	MU100H140AQ_0-10V	MU100H140AQ_CLKS	MU100H140AQ_STB	1400mA	36-71VDC	± 5%	88.0%	90.0%
MU100H175AQ	MU100H175AQ_0-10V	MU100H175AQ_CLKS	MU100H175AQ_STB	1750mA	27-55VDC	± 5%	88.0%	90.0%
MU100H210AQ	MU100H210AQ_0-10V	MU100H210AQ_CLKS	MU100H210AQ_STB	2100mA	23-46VDC	± 5%	87.0%	89.0%
MU100H245AQ	MU100H245AQ_0-10V	MU100H245AQ_CLKS	MU100H245AQ_STB	2450mA	19-39VDC	± 5%	87.0%	89.0%
MU100H280AQ	MU100H280AQ_0-10V	MU100H280AQ_CLKS	MU100H280AQ_STB	2800mA	17-34VDC	± 5%	87.0%	89.0%
MU100H315AQ	MU100H315AQ_0-10V	MU100H315AQ_CLKS	MU100H315AQ_STB	3150mA	15-30.5VDC	± 5%	86.0%	88.0%
MU100H350AQ	MU100H350AQ_0-10V	MU100H350AQ_CLKS	MU100H350AQ_STB	3500mA	13-27VDC	± 5%	86.0%	88.0%
MU100H420AQ	MU100H420AQ_0-10V	MU100H420AQ_CLKS	MU100H420AQ_STB	4200mA	12-23VDC	± 5%	86.0%	88.0%

Remarks: 1.The function instruction can be found in the Appendix Page 199~Page 204.

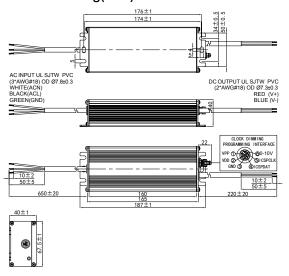
2. For the Clock Dimming function driver, there is MU100HXXXAQ_CLK and MU100HXXXAQ_CLKS

Mechanical Outline (unit: mm)

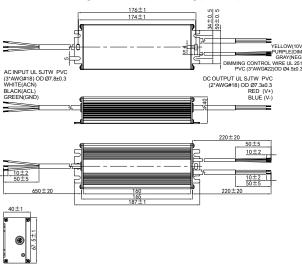
Constant Current



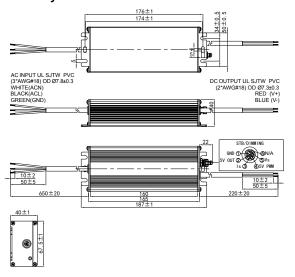
Clock Dimming(CLK)



0-10V Dimming / Clock Dimming(CLKS)



Standby



Numberi System

Quick Selecti

LED Driver
- General Series
- Outdoor Use
- H Series Class I
- H Series Class II

- General Series
- Outdoor Use
- Half Potted Series

LED Driver

- General Serie - Outdoor Use - A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Serie

LED Driver
Intelligent Series
30W Intelligent Series

LED Driver - Intelligent Series - 40W Intelligent Series

LED Driver - Intelligent Serie: - 50W Intelligent Serie

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Series
- Other Series

Power Supplie - MF Series

SPD

Appendix

Quick

LED Driver - General Series - Outdoor Use - H Series Class I

- General Series
- Outdoor Use
- Half Potted Series

- General Series - Outdoor Use - A Series

- General Series
- Outdoor Use
- Other Series

- Outdoor Use - DALI Intelligent Ser

LED Driver - Intelligent Serie - 30W Intelligent Seri

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver - Intelligent Series

LED Driver
- Intelligent Serie
- 96W Intelligent Serie

- Intelligent Series
- Other Series
General

SPD

MU120H Class I Series

Features

Input voltage: 90-305VAC
High efficiency: 91% typical
Active PFC: 0.99 typical
High surge immunity

Low THDIP67 compliant

• Protections: OVP, OCP, OTP, SCP

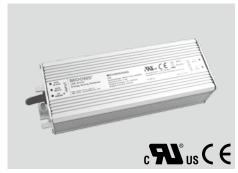
• Constant Current/0-10V Dimming/Clock Dimming(CLK)/Standby(STB)

• Compliance to worldwide safety regulations for lighting

• Suitable for dry/damp locations

• CUL/CE

• 5-year warranty



202 x 67.5 x 40mm

Electrical Specifications

Input voltage range	90~305VAC
Frequency	47~63Hz
Power factor	0.99 (typical), > 0.90 100~277VAC input, 80%~100% load
Input current	1.4A at 110VAC, 0.7A at 220VAC
Inrush current	15A at 230VAC input
Leakage current	1mA MAX at 277Vac/50Hz input
Maximum output power	120W
Line regulation	±1%
Load regulation	±3%
Start-up time	<1.2s at 110VAC, <1s at 220VAC
Protections	over voltage, over current, over temperature, short circuit: auto recovery
THD	<10%, 220VAC, 50Hz input, 80%~100% load <15%, 110VAC/277VAC, 60Hz input, 80%~100% load

Environmental Specifications

Operating temperature	-40℃ ~ +70℃
Operating humidity	10% ~ 95% RH
Storage temperature	-40℃ ~ +80℃
Storage humidity	5% ~ 95% RH
Cooling method	convection
Isolation voltage	input / output 3750VAC
MTBF	300,000 hours full load at 25℃ ambient
Life time	50,000 hours, 75°C TC
Reference dimension (L x W x H)	202 x 67.5 x 40 (mm)
Weight	0.95 kg

CUL	UL8750, UL1012, CSA-C22.2 NO. 107.1
CE	EN 61347-1, EN61347-2-13
Conducted emissions	FCC Part15 Class B / EN55015
Radiated emissions	FCC Part15 Class B / EN55015
Harmonic current emissions	EN61000-3-2
Voltage fluctuations and flicker	EN61000-3-3
Electrostatic discharge	EN61000-4-2
RFE field susceptibility	EN61000-4-3
Electrical fast transient	EN61000-4-4
Surge immunity test	EN61000-4-5 (Surge: L-N, 4KV, L/N-Earth, 6KV)
Conducted radio frequency	EN61000-4-6
Power frequency magnetic field test	EN61000-4-8
Voltage dips	EN61000-4-11
Electromagnetic immunity	EN61547

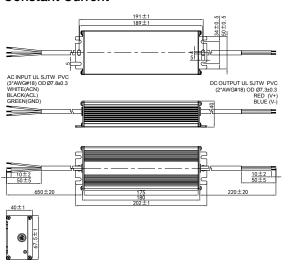
Model		Output	Output	Current	tecuracy 110Vac 2 ± 5% 89.0% 9			
Constant Current	0-10V Dimming	Clock Dimming	Standby	Current	Voltage	Accuracy	110Vac	220Vac
MU120H035AQ	MU120H035AQ_0-10V	MU120H035AQ_CLKS	MU120H035AQ_STB	350mA	171-343VDC	± 5%	89.0%	91.0%
MU120H045AQ	MU120H045AQ_0-10V	MU120H045AQ_CLKS	MU120H045AQ_STB	450mA	133-267VFC	± 5%	89.0%	91.0%
MU120H053AQ	MU120H053AQ_0-10V	MU120H053AQ_CLKS	MU120H053AQ_STB	530mA	113-227VDC	± 5%	89.0%	91.0%
MU120H070AQ	MU120H070AQ_0-10V	MU120H070AQ_CLKS	MU120H070AQ_STB	700mA	86-171VDC	± 5%	89.0%	91.0%
MU120H105AQ	MU120H105AQ_0-10V	MU120H105AQ_CLKS	MU120H105AQ_STB	1050mA	57-114VDC	± 5%	88.0%	90.0%
MU120H140AQ	MU120H140AQ_0-10V	MU120H140AQ_CLKS	MU120H140AQ_STB	1400mA	43-86VDC	± 5%	88.0%	90.0%
MU120H175AQ	MU120H175AQ_0-10V	MU120H175AQ_CLKS	MU120H175AQ_STB	1750mA	34-69VDC	± 5%	88.0%	90.0%
MU120H210AQ	MU120H210AQ_0-10V	MU120H210AQ_CLKS	MU120H210AQ_STB	2100mA	29-57VDC	± 5%	87.0%	89.0%
MU120H245AQ	MU120H245AQ_0-10V	MU120H245AQ_CLKS	MU120H245AQ_STB	2450mA	24-48VDC	± 5%	87.0%	89.0%
MU120H280AQ	MU120H280AQ_0-10V	MU120H280AQ_CLKS	MU120H280AQ_STB	2800mA	21-43VDC	± 5%	87.0%	89.0%
MU120H315AQ	MU120H315AQ_0-10V	MU120H315AQ_CLKS	MU120H315AQ_STB	3150mA	19-38VDC	± 5%	86.0%	88.0%
MU120H350AQ	MU120H350AQ_0-10V	MU120H350AQ_CLKS	MU120H350AQ_STB	3500mA	17-34VDC	± 5%	86.0%	88.0%
MU120H420AQ	MU120H420AQ_0-10V	MU120H420AQ_CLKS	MU120H420AQ_STB	4200mA	14-28VDC	± 5%	85.0%	87.0%
MU120H500AQ	MU120H500AQ_0-10V	MU120H500AQ_CLKS	MU120H500AQ_STB	5000mA	12-24VDC	± 5%	85.0%	87.0%

Remarks: 1.The function instruction can be found in the Appendix Page 199~ Page 204.

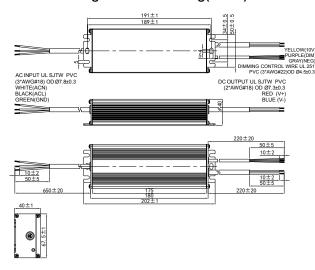
2. For the Clock Dimming function driver, there is MU120HXXXAQ_CLK and MU120HXXXAQ_CLKS

Mechanical Outline (unit: mm)

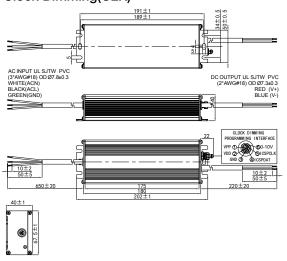
Constant Current



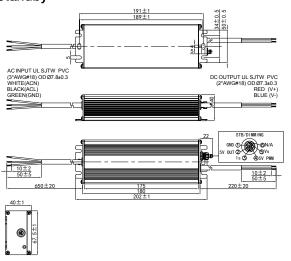
0-10V Dimming / Clock Dimming(CLKS)



Clock Dimming(CLK)



Standby



Numberi System

Quick Selecti

LED Driver

- General Series

- Outdoor Use

- H Series Class I

- H Series Class II

- General Series
- Outdoor Use
- Half Potted Series
LED Driver

- Outdoor Use - A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver - Outdoor Use - DALI Intelligent Seri

LED Driver
Intelligent Series
30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver

Intelligent Serie

50W Intelligent Serie

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

Power Supplier - MF Series

SPD

Annendiy

Quick Selection

LED Driver
- General Series
- Outdoor Use
- H Series Class I

- General Series
- Outdoor Use
- Half Potted Series

- General Series
- Outdoor Use

- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Seri

LED Driver
- Intelligent Serie

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Series
- Other Series
General

SPD

MU150H Class I Series

Features

Input voltage: 90-305VAC
High efficiency: 93% typical
Active PFC: 0.99 typical
High surge immunity

Low THDIP67 compliant

• Protections: OVP, OCP, OTP, SCP

• Constant Current/0-10V Dimming/Clock Dimming(CLK)/Standby(STB)

· Compliance to worldwide safety regulations for lighting

• Suitable for dry/damp locations

• CUL/CE

• 5-year warranty



221 x 67.5 x 40mm

Electrical Specifications

Input voltage range	90~305VAC		
Frequency	47~63Hz		
Power factor	0.99 (typical), > 0.90 100~277VAC input, 80%~100% load		
Input current	1.8A at 100VAC, 0.9A at 220VAC		
Inrush current	65A at 230VAC, 25℃ cold start		
Leakage current	0.75mA MAX at 277Vac/50Hz input		
Maximum output power	150W		
Line regulation	±1%		
Load regulation	±3%		
Start-up time	<1.2s at 120VAC, <1s at 220VAC		
Protections	over voltage, over current, over temperature, short circuit: auto recovery		
THD	<10% at 220VAC, input 50Hz, 80%~100% load <15% at 110VAC and 277VAC, input 60Hz, 80%~100% load		

Environmental Specifications

Operating temperature	-40℃ ~ +70℃
Operating humidity	20% ~ 95% RH
Storage temperature	-40℃ ~ +85℃
Storage humidity	10%~ 95% RH
Cooling method	convection
Isolation voltage	input / output 3750VAC
MTBF	300,000 hours full load at 25℃ ambient
Life time	50,000 hours, 75℃ TC
Reference dimension (L x W x H)	221 x 67.5 x 40 (mm)
Weight	1.05 kg

CUL	UL8750, UL1012, CSA-C22.2 NO. 107.1
CE	EN 61347-1, EN61347-2-13
Conducted emissions	FCC Part15 Class B / EN55015
Radiated emissions	FCC Part15 Class B / EN55015
Harmonic current emissions	EN61000-3-2
Voltage fluctuations and flicker	EN61000-3-3
Electrostatic discharge	EN61000-4-2
RFE field susceptibility	EN61000-4-3
Electrical fast transient	EN61000-4-4
Surge immunity test	EN61000-4-5 (Surge: L-N, 4KV, L/N-Earth, 6KV)
Conducted radio frequency	EN61000-4-6
Power frequency magnetic field test	EN61000-4-8
Voltage dips	EN61000-4-11
Electromagnetic immunity	EN61547

	Model			Output	Output	Current	Efficiency	y (typical)	
	Constant Current	0-10V Dimming	Clock Dimming	Standby	Current	Voltage	Accuracy	110Vac	220Vac
	MU150H035AQ	MU150H035AQ_0-10V	MU150H035AQ_CLKS	MU150H035AQ_STB	350mA	214-428VDC	± 5%	90.0%	93.0%
	MU150H045AQ	MU150H045AQ_0-10V	MU150H045AQ_CLKS	MU150H045AQ_STB	450mA	167-333VDC	± 5%	90.0%	93.0%
PS	MU150H053AQ	MU150H053AQ_0-10V	MU150H053AQ_CLKS	MU150H053AQ_STB	530mA	142-283VDC	± 5%	90.0%	93.0%
	MU150H070AQ	MU150H070AQ_0-10V	MU150H070AQ_CLKS	MU150H070AQ_STB	700mA	107-214VDC	± 5%	90.0%	93.0%
	MU150H085AQ	MU150H085AQ_0-10V	MU150H085AQ_CLKS	MU150H085AQ_STB	850mA	88-176VDC	± 5%	90.0%	93.0%
_	MU150H105AQ	MU150H105AQ_0-10V	MU150H105AQ_CLKS	MU150H105AQ_STB	1050mA	71-142VDC	± 5%	89.0%	92.0%
	MU150H120AQ	MU150H120AQ_0-10V	MU150H120AQ_CLKS	MU150H120AQ_STB	1200mA	63-125VDC	± 5%	89.0%	92.0%
_	MU150H140AQ	MU150H140AQ_0-10V	MU150H140AQ_CLKS	MU150H140AQ_STB	1400mA	54-107VDC	± 5%	89.0%	92.0%
	MU150H150AQ	MU150H150AQ_0-10V	MU150H150AQ_CLKS	MU150H150AQ_STB	1500mA	50-100VDC	±5%	89.0%	92.0%
_	MU150H175AQ	MU150H175AQ_0-10V	MU150H175AQ_CLKS	MU150H175AQ_STB	1750mA	43-85VDC	± 5%	89.0%	92.0%
	MU150H185AQ	MU150H185AQ_0-10V	MU150H185AQ_CLKS	MU150H185AQ_STB	1850mA	41-81VDC	± 5%	89.0%	92.0%
	MU150H210AQ	MU150H210AQ_0-10V	MU150H210AQ_CLKS	MU150H210AQ_STB	2100mA	36-71VDC	±5%	89.0%	92.0%
Ŷ.	MU150H245AQ	MU150H245AQ_0-10V	MU150H245AQ_CLKS	MU150H245AQ_STB	2450mA	31-61VDC	± 5%	89.0%	92.0%
~	MU150H280AQ	MU150H280AQ_0-10V	MU150H280AQ_CLKS	MU150H280AQ_STB	2800mA	27-53VDC	± 5%	89.0%	92.0%
	MU150H300AQ	MU150H300AQ_0-10V	MU150H300AQ_CLKS	MU150H300AQ_STB	3000mA	25-50VDC	± 5%	88.0%	91.0%
	MU150H315AQ	MU150H315AQ_0-10V	MU150H315AQ_CLKS	MU150H315AQ_STB	3150mA	24-48VDC	± 5%	88.0%	91.0%
	MU150H350AQ	MU150H350AQ_0-10V	MU150H350AQ_CLKS	MU150H350AQ_STB	3500mA	21-42VDC	± 5%	88.0%	91.0%
PS	MU150H420AQ	MU150H420AQ_0-10V	MU150H420AQ_CLKS	MU150H420AQ_STB	4200mA	18-36VDC	± 5%	88.0%	91.0%
	MU150H500AQ	MU150H500AQ_0-10V	MU150H500AQ_CLKS	MU150H500AQ_STB	5000mA	15-30VDC	± 5%	88.0%	91.0%

Remarks: 1.The function instruction can be found in the Appendix Page 199~Page 204.

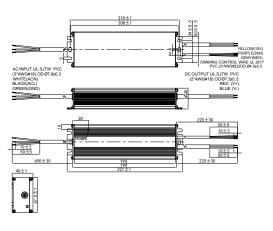
 ${\it 2.} \ {\it For the Clock Dimming function driver, there is MU150HXXXAQ_CLK and MU150HXXXAQ_CLKS}\\$

Mechanical Outline (unit: mm)

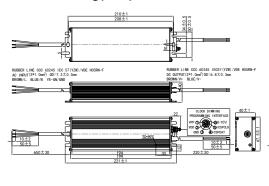
Constant Current

210 ± 1 208 ±

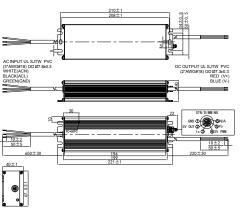
0-10V Dimming / Clock Dimming(CLKS)



Clock Dimming(CLK)



Standby



Number System

Quick Selecti

LED Driver
- General Series
- Outdoor Use
- H Series Class I

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Serie
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Serie

.ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Serie
- Other Series

General
Power Supplie
- MF Series

SPD

Appendix

Quick Selection

- LED Driver - General Series - Outdoor Use - H Series Class I
- General Series
 Outdoor Use
- LED Driver
 General Series
 Outdoor Use
- LED Driver
 General Series
 Outdoor Use
 Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
 Intelligent Seri
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
- LED Driver
 Intelligent Serie
- LED Driver - Intelligent Series - Other Series
- Power Supplies - MF Series

MU200H Class I Series

Features

Input voltage: 90-305VAC
High efficiency: 93.5% typical
Active PFC: 0.99 typical
High surge immunity

Low THDIP67 compliant

• Protections: OVP, OCP, OTP, SCP

- Constant Current/0-10V Dimming/Clock Dimming(CLK)/Standby(STB)
- · Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL/CE
- 5-year warranty



251 x 67.5 x 40mm

Electrical Specifications

Input voltage range	90~305VAC		
Frequency	47~63Hz		
Power factor	0.99 (typical), > 0.90 100~277VAC input, 80%~100% load		
Input current	2.4A at 100VAC, 1.2A at 220VAC		
Inrush current	65A at 230VAC, 25℃ cold start		
Leakage current	0.75 mA MAX at 277Vac/50Hz input		
Maximum output power	200W		
Line regulation	±1%		
Load regulation	± 3%		
Start-up time	<1.2s at 120VAC, <1s at 220VAC		
Protections	over voltage, over current, over temperature, short circuit: auto recovery		
THD <10% at 220VAC, input 50Hz, 80%~100% load <15% at 110VAC and 277VAC, input 60Hz, 80%~100% load			

Environmental Specifications

Operating temperature	-40℃ ~ +70℃
Operating humidity	20% ~ 95% RH
Storage temperature	-40℃ ~ +85℃
Storage humidity	10% ~ 95% RH
Cooling method	convection
Isolation voltage	input / output 3750VAC
MTBF	300,000 hours full load at 25°C ambient
Life time	50,000 hours, 75℃ TC
Reference dimension (L x W x H)	251 x 67.5 x 40 (mm)
Weight	1.2 kg

CUL	UL8750, UL1012, CSA-C22.2 NO. 107.1
CE	EN 61347-1, EN61347-2-13
Conducted emissions	FCC Part15 Class B / EN55015
Radiated emissions	FCC Part15 Class B / EN55015
Harmonic current emissions	EN61000-3-2
Voltage fluctuations and flicker	EN61000-3-3
Electrostatic discharge	EN61000-4-2
RFE field susceptibility	EN61000-4-3
Electrical fast transient	EN61000-4-4
Surge immunity test	EN61000-4-5 (Surge: L-N, 4KV, L/N-Earth, 6KV)
Conducted radio frequency	EN61000-4-6
Power frequency magnetic field test	EN61000-4-8
Voltage dips	EN61000-4-11
Electromagnetic immunity	EN61547

	Model			Output	Output	Current	Efficienc	y (typical)	
	Constant Current	0-10V Dimming	Clock Dimming	Standby	Current	Voltage	Accuracy	110Vac	220Vac
	MU200H035AQ	MU200H035AQ_0-10V	MU200H035AQ_CLKS	MU200H035AQ_STB	350mA	286-571VDC	± 5%	90.5%	93.5%
PS	MU200H045AQ	MU200H045AQ_0-10V	MU200H045AQ_CLKS	MU200H045AQ_STB	450mA	222-444VDC	± 5%	90.5%	93.5%
PS	MU200H053AQ	MU200H053AQ_0-10V	MU200H053AQ_CLKS	MU200H053AQ_STB	530mA	189-377VDC	± 5%	90.5%	93.5%
	MU200H070AQ	MU200H070AQ_0-10V	MU200H070AQ_CLKS	MU200H070AQ_STB	700mA	143-285VDC	± 5%	90.5%	93.5%
	MU200H085AQ	MU200H085AQ_0-10V	MU200H085AQ_CLKS	MU200H085AQ_STB	850mA	118-235VDC	± 5%	90.0%	93.0%
	MU200H105AQ	MU200H105AQ_0-10V	MU200H105AQ_CLKS	MU200H105AQ_STB	1050mA	95-190VDC	± 5%	90.0%	93.0%
	MU200H120AQ	MU200H120AQ_0-10V	MU200H120AQ_CLKS	MU200H120AQ_STB	1200mA	83-166VDC	± 5%	90.0%	93.0%
	MU200H140AQ	MU200H140AQ_0-10V	MU200H140AQ_CLKS	MU200H140AQ_STB	1400mA	71-142VDC	± 5%	90.0%	93.0%
	MU200H150AQ	MU200H150AQ_0-10V	MU200H150AQ_CLKS	MU200H150AQ_STB	1500mA	67-133VDC	± 5%	90.0%	92.0%
	MU200H175AQ	MU200H175AQ_0-10V	MU200H175AQ_CLKS	MU200H175AQ_STB	1750mA	57-114VDC	± 5%	89.0%	92.0%
PS	MU200H210AQ	MU200H210AQ_0-10V	MU200H210AQ_CLKS	MU200H210AQ_STB	2100mA	48-95VDC	± 5%	89.0%	92.0%
E	MU200H245AQ	MU200H245AQ_0-10V	MU200H245AQ_CLKS	MU200H245AQ_STB	2450mA	41-81VDC	± 5%	89.0%	92.0%
	MU200H280AQ	MU200H280AQ_0-10V	MU200H280AQ_CLKS	MU200H280AQ_STB	2800mA	36-71VDC	± 5%	89.0%	92.0%
	MU200H300AQ	MU200H300AQ_0-10V	MU200H300AQ_CLKS	MU200H300AQ_STB	3000mA	34-67VDC	± 5%	89.0%	92.0%
	MU200H315AQ	MU200H315AQ_0-10V	MU200H315AQ_CLKS	MU200H315AQ_STB	3150mA	32-63VDC	± 5%	88.5%	91.5%
^	MU200H350AQ	MU200H350AQ_0-10V	MU200H350AQ_CLKS	MU200H350AQ_STB	3500mA	29-57VDC	± 5%	88.5%	91.5%
(PS)	MU200H420AQ	MU200H420AQ_0-10V	MU200H420AQ_CLKS	MU200H420AQ_STB	4200mA	24-48VDC	± 5%	88.5%	91.5%
~	MU200H490AQ	MU200H490AQ_0-10V	MU200H490AQ_CLKS	MU200H490AQ_STB	4900mA	20-40VDC	± 5%	88.0%	91.0%
	MU200H560AQ	MU200H560AQ_0-10V	MU200H560AQ_CLKS	MU200H560AQ_STB	5600mA	18-36VDC	± 5%	88.0%	91.0%
	MU200H600AQ	MU200H600AQ_0-10V	MU200H600AQ_CLKS	MU200H600AQ_STB	6000mA	17-33VDC	± 5%	88.0%	91.0%

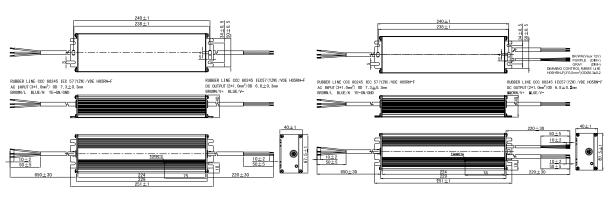
Remarks: 1.The function instruction can be found in the Appendix Page 199 -Page 204.

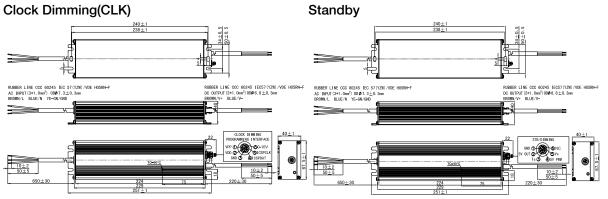
2. For the Clock Dimming function driver, there is MU200HXXXAQ_CLK and MU200HXXXAQ_CLKS

■ Mechanical Outline (unit: mm)

Constant Current

0-10V Dimming / Clock Dimming(CLKS)





Numberi System

Quick Selecti

LED Driver
- General Series
- Outdoor Use
- H Series Class I
- H Series Class II

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Serie
- Outdoor Use

LED Driver
- General Series
- Outdoor Use

LED Driver - Outdoor Use - DALI Intelligent Serie

LED Driver
- Intelligent Serie
- 30W Intelligent Serie

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver Intelligent Series 50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Series
- Other Series

Power Supplies
- MF Series

SPD

Append

Quick Selection

LED Driver

- General Series

- Outdoor Use

- H Series Class I

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

- General Serie - Outdoor Use - A Series

- General Series - Outdoor Use - Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Ser

LED Driver - Intelligent Serie - 30W Intelligent Serie

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Serie
- 96W Intelligent Serie

- Intelligent Series
- Other Series
General

SPD

PU012H Class II Series

Features

Input voltage: 90-305VAC
High efficiency: 86% typical
Active PFC: 0.99 typical
Surge protection

• IP66 compliant

• Protections: OVP, OCP, SCP

• Constant Current

• Compliance to worldwide safety regulations for lighting

• Suitable for dry/damp locations

• CUI

• 5-year warranty



85 x 36 x 23mm

Electrical Specifications

Input voltage range	90~305VAC		
Frequency	47~63Hz		
Power factor	0.99 at 120VAC/60Hz, 0.97 at 230VAC/50Hz (typical)		
Input current	0.2A at 100VAC input, full load		
Inrush current	15A at 230VAC input, 25℃ cold start		
Leakage current	0.5mA MAX at 277VAC/60Hz input		
Maximum output power	12W		
Line regulation	±5%		
Load regulation	±5%		
Start-up time	<1.2s at 120VAC, <1s at 220VAC		
Protections	over voltage, over current, short circuit: auto recovery		

Environmental Specifications

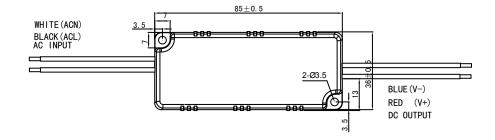
Operating temperature	-40℃ ~ +60℃
Operating humidity	20%~ 95%RH
Storage temperature	-40℃ ~ +85℃
Storage humidity	10% ~ 95% RH
Cooling method	convection
Isolation voltage	input / output 3750VAC
MTBF	300,000 hours full load at 25°C ambient
Life time	50,000 hours, 75℃ TC
Reference dimension (L x W x H)	85 x 36 x 23 (mm)
Weight	0.1 kg

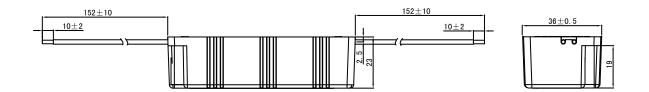
CUL	UL8750, UL1310, CSA-C22.2 NO. 107.1, CSA-C22.2 NO. 223-M91
CE	EN 61347-1, EN61347-2-13
Conducted emissions	FCC Part15 Class B/ EN55015
Radiated emissions	FCC Part15 Class B/ EN55015
Harmonic current emissions	EN61000-3-2
Voltage fluctuations and flicker	EN61000-3-3
Electrostatic discharge	EN61000-4-2
RFE field susceptibility	EN61000-4-3
Electrical fast transient	EN61000-4-4
Surge immunity test	EN61000-4-5
Conducted radio frequency	EN61000-4-6
Power frequency magnetic field test	EN61000-4-8
Voltage dips	EN61000-4-11
Electromagnetic immunity	EN61547

■ Constant Current — Model Specifications

Model	Output Current Outpu	Output Voltage	Current Accuracy	Efficiency (typical)		
Model	Output Gurrent	Output voltage	Current Accuracy	110Vac	220Vac	
PU012H025AQ	250mA	24-48VDC	± 6%	85.0%	86.0%	
PU012H030AQ	300mA	18-36VDC	± 6%	84.0%	85.0%	
PU012H035AQ	350mA	18-36VDC	± 6%	84.0%	85.0%	
PU012H045AQ	450mA	13-27VDC	± 5%	83.0%	84.0%	
PU012H070AQ	700mA	8-17VDC	± 5%	82.0%	83.0%	
PU012H100AQ	1000mA	6-12VDC	± 5%	80.0%	81.0%	

■ Mechanical Outline (unit: mm)





Quick

- LED Driver - General Series - Outdoor Use - H Series Class I
- LED Driver
 General Series
 Outdoor Use
 Half Potted Series
- General Serie - Outdoor Use
- General Series
 Outdoor Use
 Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
- MF Series

SPD

PU025H Class II Series

Features

Input voltage: 90-305VAC
High efficiency: 89% typical
Active PFC: 0.99 typical
Surge protection

Surge protectio
 IP66 compliant

Protections: OVP, OCP, SCPConstant Current / 0-10V Dimming

- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL/CE/ENEC
- 5-year warranty



80 x 78 x 27mm

Electrical Specifications

Input voltage range	90~305VAC			
Frequency	47~63Hz			
Power factor	0.99 at 120VAC/60Hz, 0.97 at 230VAC/50Hz (typical)			
Input current	0.4A at 100VAC input, full load			
Inrush current	15A at 230VAC input, 25℃ cold start			
Leakage current	0.5mA MAX at 277VAC/60Hz input			
Maximum output power	25W			
Line regulation	±5%			
Load regulation	±5%			
Start-up time	<1.2s at 120VAC, <1s at 220VAC			
Protections	over voltage, over current, short circuit: auto recovery			

Environmental Specifications

Operating temperature	-40℃ ~ +60℃		
Operating humidity	20% ~ 95% RH		
Storage temperature	-40℃ ~ +85℃		
Storage humidity	10% ~ 95% RH		
Cooling method	convection		
Isolation voltage	input / output 3750VAC		
MTBF	300,000 hours full load at 25°C ambient		
Life time	50,000 hours, 75°C TC		
Reference dimension (L x W x H)	80 x 78 x 27 (mm)		
Weight	0.17 kg		

CUL	UL8750, UL1012, UL1310, CSA-C22.2 NO. 107.1, CSA-C22.2 NO. 223-M91		
	· · · · · · · · · · · · · · · · · · · ·		
CE	EN 61347-1, EN61347-2-13		
Conducted emissions	FCC Part15 Class B / EN55015		
Radiated emissions	FCC Part15 Class B / EN55015		
Harmonic current emissions	EN61000-3-2		
Voltage fluctuations and flicker	EN61000-3-3		
Electrostatic discharge	EN61000-4-2		
RFE field susceptibility	EN61000-4-3		
Electrical fast transient	EN61000-4-4		
Surge immunity test	EN61000-4-5		
Conducted radio frequency	EN61000-4-6		
Power frequency magnetic field test	EN61000-4-8		
Voltage dips	EN61000-4-11		
Electromagnetic immunity	EN61547		

■ Constant Current — Model Specifications

Model	Output Current	Output Voltage	Current Accuracy	Efficiency (typical)	
Model	Output Gurrent	Output voltage	Current Accuracy	110Vac	220Vac
PU025H035AQ	350mA	36-72VDC	± 5%	88.0%	89.0%
PU025H045AQ	450mA	28-55VDC	± 5%	87.0%	88.0%
PU025H070AQ	700mA	18-36VDC	± 5%	86.0%	87.0%
PU025H105AQ	1050mA	12-24VDC	± 5%	85.0%	86.0%
PU025H120AQ	1200mA	10-21VDC	± 5%	84.0%	85.0%
PU025H140AQ	1400mA	9-18VDC	± 5%	83.0%	84.0%
PU025H175AQ	1750mA	7-14VDC	± 5%	82.0%	83.0%
PU025H210AQ	2100mA	6-12VDC	± 5%	81.0%	82.0%

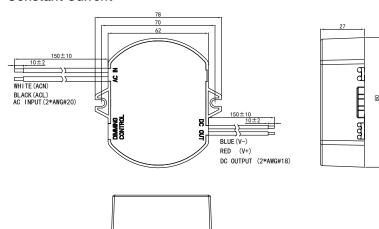
■ 0-10V Dimming — Model Specifications

Model	Output Current	Output Voltage	Current Accuracy	Efficiency (typical)	
Model	Output Current Output voltage	Current Accuracy	110Vac	220Vac	
PU025H035AQ_0-10V	350mA	36-72VDC	± 5%	87.0%	88.0%
PU025H045AQ_0-10V	450mA	28-55VDC	± 5%	86.0%	87.0%
PU025H070AQ_0-10V	700mA	18-36VDC	± 5%	85.0%	86.0%
PU025H105AQ_0-10V	1050mA	12-24VDC	± 5%	84.0%	85.0%
PU025H120AQ_0-10V	1200mA	10-21VDC	± 5%	83.0%	84.0%
PU025H140AQ_0-10V	1400mA	9-18VDC	± 5%	82.0%	83.0%
PU025H175AQ_0-10V	1750mA	7-14VDC	± 5%	81.0%	82.0%
PU025H210AQ_0-10V	2100mA	6-12VDC	± 5%	80.0%	81.0%

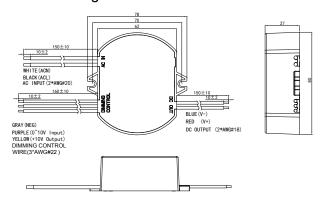
Remarks: The function instruction can be found in the Appendix Page 199.

Mechanical Outline (unit: mm)

Constant Current



0-10V Dimming



- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver - Outdoor Use - DALI Intelligent Seri

> ED Driver ntelligent Series

ED Driver Intelligent Series 40W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Serie:
- Other Series

General Power Supplie

SPD

Appendi

Quick Selection

- LED Driver
 General Series
 Outdoor Use
 H Series Class I
- LED Driver
 General Series
 Outdoor Use
- LED Driver
 General Serie
 Outdoor Use
- General Serie
 Outdoor Use
 Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
- LED Driver
 Intelligent Series
 96W Intelligent Serie
- LED Driver
 Intelligent Series
 Other Series
- MF Series

PU040H Class II Series

Features

Input voltage: 90-305VAC
High efficiency: 90% typical
Active PFC: 0.99 typical
Surge protection

- Surge protection
 IP66 compliant
- Protections: OVP, OCP, OTP, SCPConstant Current / 0-10V Dimming
- Compliance to worldwide safety regulations for lighting
- Suitable for dry /damp locations
- CUL/CE/ENEC
- 5-year warranty



95 x 70x 32mm

Electrical Specifications

Input voltage range	90~305VAC			
Frequency	47~63Hz			
Power factor	0.99 at 120VAC/60Hz, 0.97 at 230VAC/50Hz (typical)			
Input current	0.6A at 100VAC input, full load			
Inrush current	15A at 230VAC input, 25℃ cold start			
Leakage current	0.5mA MAX at 277VAC/60Hz input			
Maximum output power	40W			
Line regulation	±3%			
Load regulation	±3%			
Start-up time	<1.2s at 120VAC, <1s at 220VAC			
Protections	over voltage, over current, over temperature, short circuit: auto recovery			

Environmental Specifications

Operating temperature	-40℃ ~ +60℃
Operating humidity	20% ~ 95% RH
Storage temperature	-40℃ ~ +85℃
Storage humidity	10% ~ 95% RH
Cooling method	convection
Isolation voltage	input / output 3750VAC
MTBF	300,000 hours full load at 25°C ambient
Life time	50,000 hours, 75℃ TC
Reference dimension (L x W x H)	95 x 70 x 32 (mm)
Weight	0.3 kg

CUL	UL8750, UL1012, UL1310, CSA-C22.2 NO. 107.1, CSA-C22.2 NO. 223-M91		
CE	EN 61347-1, EN61347-2-13		
Conducted emissions	FCC Part15 Class B / EN55015		
Radiated emissions	FCC Part15 Class B / EN55015		
Harmonic current emissions	EN61000-3-2		
Voltage fluctuations and flicker	EN61000-3-3		
Electrostatic discharge	EN61000-4-2		
RFE field susceptibility	EN61000-4-3		
Electrical fast transient	EN61000-4-4		
Surge immunity test	EN61000-4-5		
Conducted radio frequency	EN61000-4-6		
Power frequency magnetic field test	EN61000-4-8		
Voltage dips	EN61000-4-11		
Electromagnetic immunity	EN61547		

■ Constant Current — Model Specifications

Model	Output Current Ou	Output Voltage	Current Accuracy	Efficiency (typical)	
Wiodei		Output voltage	Current Accuracy	110Vac	220Vac
PU040H035AQ	350mA	57-114VDC	± 5%	90.0%	91.0%
PU040H045AQ	450mA	44-89VDC	± 5%	89.5%	90.5%
PU040H070AQ	700mA	28-54VDC	± 5%	89.0%	90.0%
PU040H105AQ	1050mA	19-37VDC	± 5%	88.0%	89.0%
PU040H140AQ	1400mA	14-29VDC	± 5%	88.0%	89.0%
PU040H175AQ	1750mA	11-23VDC	± 5%	87.0%	88.0%
PU040H210AQ	2100mA	9-19VDC	± 5%	85.5%	86.5%
PU040H245AQ	2450mA	8-16VDC	± 5%	84.0%	85.0%
PU040H280AQ	2800mA	7-14VDC	± 5%	83.5%	85.0%
PU040H315AQ	3150mA	6-12VDC	± 5%	82.5%	84.0%

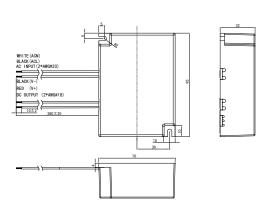
■ 0-10V Dimming — Model Specifications

Model	Output Current Output Voltage C	Output Voltage	Current Accuracy	Efficiency (typical)		
Model		Current Accuracy	110Vac	220Vac		
PU040H035AQ_0-10V	350mA	57-114VDC	± 5%	89.0%	90.0%	
PU040H045AQ_0-10V	450mA	44-89VDC	± 5%	88.5%	89.5%	
PU040H070AQ_0-10V	700mA	28-54VDC	± 5%	87.5%	88.5%	
PU040H105AQ_0-10V	1050mA	19-37VDC	± 5%	87.0%	88.0%	
PU040H140AQ_0-10V	1400mA	14-29VDC	± 5%	86.5%	87.5%	
PU040H175AQ_0-10V	1750mA	11-23VDC	± 5%	85.0%	86.0%	
PU040H210AQ_0-10V	2100mA	9-19VDC	± 5%	84.0%	85.0%	
PU040H245AQ_0-10V	2450mA	8-16VDC	± 5%	83.5%	84.5%	
PU040H280AQ_0-10V	2800mA	7-14VDC	± 5%	82.5%	84.0%	
PU040H315AQ_0-10V	3150mA	6-12VDC	± 5%	81.5%	83.0%	

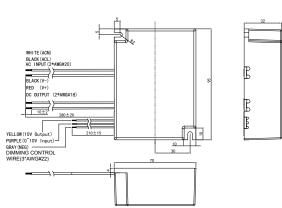
Remarks: The function instruction can be found in the Appendix Page 199.

Mechanical Outline (unit: mm)

Constant Current



0-10V Dimming



LED Driver
- General Serie
- Outdoor Use
- Half Potted Serie

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use

LED Driver - Outdoor Use - DALI Intelligent Serie

ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Serie
- Other Series

General
Power Supplie

SPI

Appendix

Quick Selection

- LED Driver

 General Series

 Outdoor Use

 H Series Class I
- General Series
 Outdoor Use
- LED Driver
 General Series
 Outdoor Use
- LED Driver
 General Series
 Outdoor Use
 Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 Other Series
- Power Supplies - MF Series

SPD

MU150H Class II Series

Features

Input voltage: 90-305VAC
High efficiency: 93% typical
Active PFC: 0.99 typical
High surge immunity

Low THDIP67 compliant

• Protections: OVP, OCP, OTP, SCP

- Constant Current/0-10V Dimming/Clock Dimming(CLK)/Standby(STB)
- · Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL/CE
- 5-year warranty



221 x 67.5 x 40mm

Electrical Specifications

Input voltage range	90~305VAC		
Frequency	47~63Hz		
Power factor	0.99 (typical), > 0.90 100~277VAC input, 80%~100% load		
Input current	1.8A at 100VAC, 0.9A at 220VAC		
Inrush current	65A at 230VAC, 25℃ cold start		
Leakage current	0.5mA MAX at 277Vac/50Hz input		
Maximum output power	150W		
Line regulation	±1%		
Load regulation	± 3%		
Start-up time	<1.2s at 120VAC, <1s at 220VAC		
Protections	over voltage, over current, over temperature, short circuit: auto recovery		
THD	<10% at 220VAC, input 50Hz, 80%~100% load <15% at 110VAC and 277VAC, input 60Hz, 80%~100% load		

Environmental Specifications

Operating temperature	-40℃ ~ +70℃
Operating humidity	20% ~ 95% RH
Storage temperature	-40℃ ~ +85℃
Storage humidity	10% ~ 95% RH
Cooling method	convection
Isolation voltage	input / output 3750VAC
MTBF	300,000 hours full load at 25℃ ambient
Life time	50,000 hours, 75°C TC
Reference dimension (L x W x H)	221 x 67.5 x 40 (mm)
Weight	1.05 kg

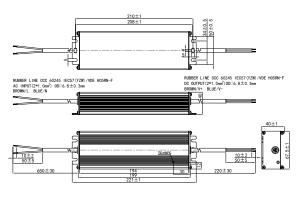
UL8750, UL1012, CSA-C22.2 NO. 107.1			
EN 61347-1, EN61347-2-13			
FCC Part15 Class B / EN55015			
FCC Part15 Class B / EN55015			
EN61000-3-2			
EN61000-3-3			
EN61000-4-2			
EN61000-4-3			
EN61000-4-4			
EN61000-4-5 (Surge: L-N, 4KV, L/N-Case, 4KV)			
EN61000-4-6			
EN61000-4-8			
EN61000-4-11			
EN61547			

Model		Output	Output	Current	Efficienc	y (typical)		
Constant Current	0-10V Dimming	Clock Dimming	Standby	Current	Voltage	Accuracy	110Vac	220Vac
MU150H035AQ	MU150H035AQ_0-10V	MU150H035AQ_CLKS	MU150H035AQ_STB	350mA	214-428VDC	±5%	90.0%	93.0%
MU150H045AQ	MU150H045AQ_0-10V	MU150H045AQ_CLKS	MU150H045AQ_STB	450mA	167-333VDC	±5%	90.0%	93.0%
MU150H053AQ	MU150H053AQ_0-10V	MU150H053AQ_CLKS	MU150H053AQ_STB	530mA	142-283VDC	±5%	90.0%	93.0%
MU150H070AQ	MU150H070AQ_0-10V	MU150H070AQ_CLKS	MU150H070AQ_STB	700mA	107-214VDC	±5%	90.0%	93.0%
MU150H105AQ	MU150H105AQ_0-10V	MU150H105AQ_CLKS	MU150H105AQ_STB	1050mA	71-142VDC	± 5%	89.0%	92.0%
MU150H140AQ	MU150H140AQ_0-10V	MU150H140AQ_CLKS	MU150H140AQ_STB	1400mA	54-107VDC	±5%	89.0%	92.0%
MU150H175AQ	MU150H175AQ_0-10V	MU150H175AQ_CLKS	MU150H175AQ_STB	1750mA	43-85VDC	±5%	89.0%	92.0%
MU150H210AQ	MU150H210AQ_0-10V	MU150H210AQ_CLKS	MU150H210AQ_STB	2100mA	36-71VDC	±5%	89.0%	92.0%
MU150H245AQ	MU150H245AQ_0-10V	MU150H245AQ_CLKS	MU150H245AQ_STB	2450mA	31-61VDC	± 5%	89.0%	92.0%
MU150H280AQ	MU150H280AQ_0-10V	MU150H280AQ_CLKS	MU150H280AQ_STB	2800mA	27-53VDC	±5%	89.0%	92.0%
MU150H315AQ	MU150H315AQ_0-10V	MU150H315AQ_CLKS	MU150H315AQ_STB	3150mA	24-48VDC	± 5%	88.0%	91.0%
MU150H350AQ	MU150H350AQ_0-10V	MU150H350AQ_CLKS	MU150H350AQ_STB	3500mA	21-42VDC	± 5%	88.0%	91.0%
MU150H420AQ	MU150H420AQ_0-10V	MU150H420AQ_CLKS	MU150H420AQ_STB	4200mA	18-36VDC	±5%	88.0%	91.0%
MU150H500AQ	MU150H500AQ_0-10V	MU150H500AQ_CLKS	MU150H500AQ_STB	5000mA	15-30VDC	± 5%	88.0%	91.0%

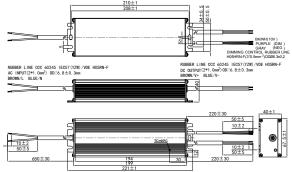
Remarks: 1.The function instruction can be found in the Appendix Page 199~Page 204

Mechanical Outline (unit: mm)

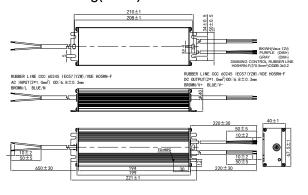
Constant Current



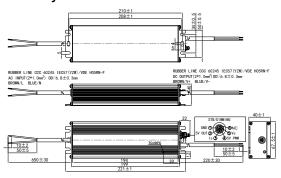
0-10V Dimming



Clock Dimming(CLKS)



Standby



Numberi System

Quick Selecti

LED Driver

- General Series

- Outdoor Use

- H Series Class I

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

- General Serie - Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver - Outdoor Use - DALI Intelligent Serie

LED Driver
- Intelligent Series
- 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver - Intelligent Serie - 50W Intelligent Serie

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

Power Supplie - MF Series

SPD

Quick Selection

LED Driver

- General Series

- Outdoor Use

- H Series Class I

- General Series
- Outdoor Use
- Half Potted Series

General SeriesOutdoor UseA Series

- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Ser

LED Driver
- Intelligent Serie

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver

LED Driver
- Intelligent Serie:
- 96W Intelligent Serie

LED Driver
- Intelligent Series
- Other Series
General

SPD

MU200H Class II Series

Features

Input voltage: 90-305VAC
High efficiency: 93.5% typical
Active PFC: 0.99 typical
High surge immunity

Low THDIP67 compliant

• Protections: OVP, OCP, OTP, SCP

• Constant Current/0-10V Dimming/Clock Dimming(CLK)/Standby(STB)

• Compliance to worldwide safety regulations for lighting

• Suitable for dry/damp locations

• CUL/CE

• 5-year warranty



251 x 67.5 x 40mm

Electrical Specifications

Input voltage range	90~305VAC			
Frequency	47~63Hz			
Power factor	0.99 (typical) ,>0.90 100~277VAC input, 60%~100% load			
Input current	2.4A at 100VAC, 1.2A at 220VAC			
Inrush current	65A at 230VAC, 25℃ cold start			
Leakage current	0.5 mA MAX at 277Vac/50Hz input			
Maximum output power	200W			
Line regulation	±1%			
Load regulation	±3%			
Start-up time	<1.2s at 120VAC, <1s at 220VAC			
Protections	over voltage, over current, over temperature, short circuit: auto recovery			
THD	<10%, 220VAC, 50Hz input, 80%~100% load <15%, 110VAC and 277VAC, 60Hz input, 80%~100% load			

Environmental Specifications

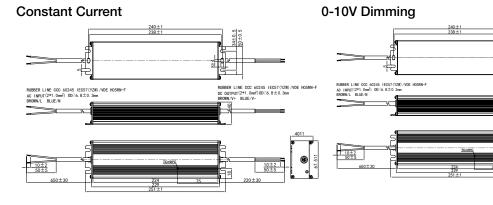
Operating temperature	-40℃ ~ +70℃
Operating humidity	20% ~ 95% RH
Storage temperature	-40℃ ~ +85℃
Storage humidity	10% ~ 95% RH
Cooling method	convection
Isolation voltage	input / output 3750VAC
MTBF	300,000 hours full load at 25°C ambient
Life time	50,000 hours, 75°C TC
Reference dimension (L x W x H)	251 x 67.5 x 40 (mm)
Weight	1.2 kg

CUL	UL8750, UL1012, CSA-C22.2 NO. 107.1
CE	EN 61347-1, EN61347-2-13
Conducted emissions	FCC Part15 Class B/ EN55015
Radiated emissions	FCC Part15 Class B/ EN55015
Harmonic current emissions	EN61000-3-2
Voltage fluctuations and flicker	EN61000-3-3
Electrostatic discharge	EN61000-4-2
RFE field susceptibility	EN61000-4-3
Electrical fast transient	EN61000-4-4
Surge immunity test	EN61000-4-5 (Surge: L-N, 4KV, L/N-Case, 4KV)
Conducted radio frequency	EN61000-4-6
Power frequency magnetic field test	EN61000-4-8
Voltage dips	EN61000-4-11
Electromagnetic immunity	EN61547

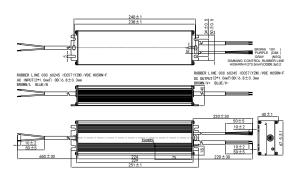
Model				Output	Output	Current	Efficienc	y (typical)
Constant Current	0-10V Dimming	Clock Dimming	Standby	Current	Voltage	Accuracy	110Vac	220Vac
MU200H035AQ	MU200H035AQ_0-10V	MU200H035AQ_CLKS	MU200H035AQ_STB	350mA	286-571VDC	± 5%	90.5%	93.5%
MU200H045AQ	MU200H045AQ_0-10V	MU200H045AQ_CLKS	MU200H045AQ_STB	450mA	222-444VDC	± 5%	90.5%	93.5%
MU200H053AQ	MU200H053AQ_0-10V	MU200H053AQ_CLKS	MU200H053AQ_STB	530mA	189-377VDC	± 5%	90.5%	93.5%
MU200H070AQ	MU200H070AQ_0-10V	MU200H070AQ_CLKS	MU200H070AQ_STB	700mA	143-285VDC	± 5%	90.5%	93.5%
MU200H105AQ	MU200H105AQ_0-10V	MU200H105AQ_CLKS	MU200H105AQ_STB	1050mA	95-190VDC	± 5%	90.0%	93.0%
MU200H140AQ	MU200H140AQ_0-10V	MU200H140AQ_CLKS	MU200H140AQ_STB	1400mA	71-142VDC	± 5%	90.0%	93.0%
MU200H175AQ	MU200H175AQ_0-10V	MU200H175AQ_CLKS	MU200H175AQ_STB	1750mA	57-114VDC	± 5%	89.0%	92.0%
MU200H210AQ	MU200H210AQ_0-10V	MU200H210AQ_CLKS	MU200H210AQ_STB	2100mA	48-95VDC	± 5%	89.0%	92.0%
MU200H245AQ	MU200H245AQ_0-10V	MU200H245AQ_CLKS	MU200H245AQ_STB	2450mA	41-81VDC	± 5%	89.0%	92.0%
MU200H280AQ	MU200H280AQ_0-10V	MU200H280AQ_CLKS	MU200H280AQ_STB	2800mA	36-71VDC	± 5%	89.0%	92.0%
MU200H315AQ	MU200H315AQ_0-10V	MU200H315AQ_CLKS	MU200H315AQ_STB	3150mA	32-63VDC	± 5%	88.5%	91.5%
MU200H350AQ	MU200H350AQ_0-10V	MU200H350AQ_CLKS	MU200H350AQ_STB	3500mA	29-57VDC	± 5%	88.5%	91.5%
MU200H420AQ	MU200H420AQ_0-10V	MU200H420AQ_CLKS	MU200H420AQ_STB	4200mA	24-48VDC	± 5%	88.5%	91.5%
MU200H490AQ	MU200H490AQ_0-10V	MU200H490AQ_CLKS	MU200H490AQ_STB	4900mA	20-40VDC	± 5%	88.0%	91.0%
MU200H560AQ	MU200H560AQ_0-10V	MU200H560AQ_CLKS	MU200H560AQ_STB	5600mA	18-36VDC	± 5%	88.0%	91.0%

Remarks: 1.The function instruction can be found in the Appendix Page 199~Page 204.

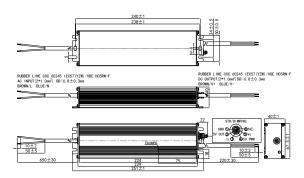
Mechanical Outline (unit: mm)



Clock Dimming(CLKS)



Standby



Quick Selection

LED Driver
- General Series
- Outdoor Use
- H Series Class I

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Serie
- Outdoor Use
- A Series

- General Series - Outdoor Use - Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Serie

LED Driver
- Intelligent Serie

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver Intelligent Series 50W Intelligent Serie

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

Power Supplies

SPD

PU030A Series - Constant Current Output & Dimming Control

Features

- Input voltage range 90-305VAC.
- High efficiency: 88% typical
- Active PFC: 0.99 typical
- Surge protection
- Protections: OVP, SCP
- Compliance to worldwide safety regulations for lighting
- · Suitable for dry/damp locations
- CUL/CE
- 5-year warranty



120 × 46 × 30mm

Electrical Specifications

Input voltage range	90~305 VAC			
Frequency	47~63 Hz			
Power factor	0.99 at 110 VAC; 0.97 at 220 VAC (typical)			
Inrush current	15A Max (at 220 VAC, 25°C, cold start)			
Input current	0.4A Max at 100VAC			
Efficiency	87% (typical) at 110 VAC maximum load, 88% (typical) at 220 VAC maximum load			
Maximum power	30W			
Turn on delay	< 1.5S at 220VAC maximum load, < 3S at 110VAC maximum load			
Leakage current	0.75mA Max			
Protections	Over Voltage, Short Circuit			

Environmental Specifications

Operating temperature	-35°C ~ +60°C
Storage temperature	-40°C ~ +85°C
Operating humidity	20% ~ 95%RH
Storage humidity	10% ~ 95%RH
Cooling method	Convection
MTBF	300,000 hours at full load and 25°C ambient
Life time	50,000 hours at 40°C ambient
Reference dimension(L × W × H)	120 x 46 x 30 (mm)

CUL	UL8750
CE	EN61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Electrostatic Discharge	EN61000-4-2
Surge Immunity Test	EN61000-4-5

■ Model Specifications - constant current

Part Number	Output	Output Current	utput Current Output Voltage		Efficience	cy (typical)	Output Current Adj.
Fart Number	Power	Output Current	Output voitage	Accuracy	110VAC	220VAC	Range*1
PU030A070AQ	30W	700mA	24-42VDC	± 5%	87%	88%	unadjustable
c ¶ °us (€ PU030A081AQ	30W	1000mA	24-36VDC	± 5%	87%	88%	270-1150mA
PU040A140AQ1	40W	1400mA	16-31VDC	± 5%	88%	89%	unadjustable

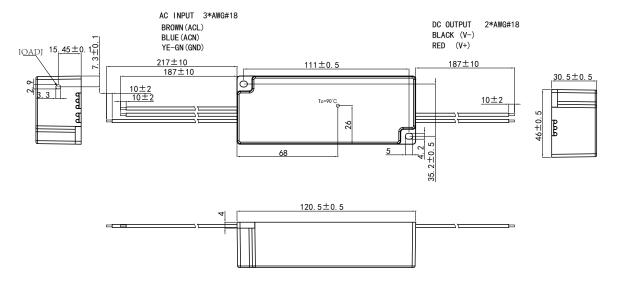
^{*1:} Current can be set by adjusting the potentiometer, the maximum output power can not exceed 30W.

■ Model Specifications - Dimming Control (0-10V)

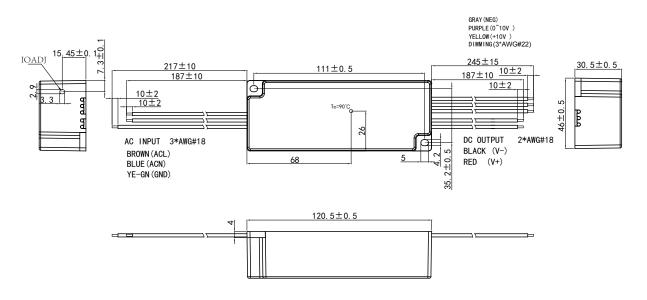
Part Number	Output Power	Output Current	Output Voltage	Current Accuracy	Efficiency	y (typical)
Part Number	Output Fower	Output Current	Output voitage	Current Accuracy	110VAC	220VAC
(€ PU030A081AQD	30W	1000mA	24-36VDC	± 5%	87%	88%

Mechanical Outline (unit:mm)

Constant Current



Constant Current with Dimming Control (0~10V)



Number

Quick Selection

- General Serie
- Outdoor Use
- H Series Class I
- H Series Class II

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

ED Driver General Series Outdoor Use A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Serie

ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Serie

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Serie
- Other Series

General
Power Supplie
- MF Series

SPD

Appendi

Quick Selection

- General Series
 Outdoor Use
 H Series Class I
- LED Driver
 General Series
 Outdoor Use
 Half Potted Series
- LED Driver
 General Serie
 Outdoor Use
 A Series
- General Serie - Outdoor Use - Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Seri
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
- MF Senes

SPD

UU060A Series - Constant Current Output & Dimming Control

Features

- Input voltage range 90-305VAC
- High efficiency: 89% typical
- Active PFC: 0.99 typical
- Surge protection
- Support 0-10V dimming
- Protections: OVP, OTP, SCP
- Compliance to worldwide safety regulations for lighting
- · Suitable for dry/damp locations
- CUL/CE
- 5-year warranty



140 × 71 × 35mm

Electrical Specifications

Input voltage range	90~305 VAC
Frequency	47~63 Hz
Power factor	0.99 at 110 VAC; 0.97 at 220 VAC (typical)
Inrush current	15A Max (at 230 VAC, 25℃, cold start)
Input current	0.8A Max at 100VAC, 0.4A Max at 220Vac
Efficiency	88% (typical) at 110 VAC maximum load, 89% (typical) at 220 VAC maximum load
Maximum power	60W
Turn on delay	< 1.5S at 220VAC maximum load, < 3S at 110VAC maximum load
Leakage current	0.75mA Max (277VAC 50Hz input)
Protections	Over Voltage, Over Temperature, Short Circuit

Environmental Specifications

Operating temperature	-35°C ~ +60°C
Storage temperature	-40°C ~ +80°C
Operating humidity	20% ~ 90%RH
Storage humidity	10% ~ 95%RH
Cooling method	Convection
MTBF	300,000 hours at full load and 25°C ambient
Life time	50,000 hours at 40°C ambient
Reference dimension(L × W × H)	140 x 71 x 35 (mm)

CUL	UL8750
CE	EN61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Surge Immunity Test	EN61000-4-5
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

Model Specifications - Constant Current

Part Number	Output Power	Output	Output Voltage	Current Accuracy	Efficiency (typical)		Output Current
		Current			110VAC	220VAC	Adj. Range*1
UU060A075AQ	60W	750mA	48-72VDC	± 5%	89%	90%	350-900mA
UU060A160AQ		1600mA	24-40VDC	± 5%	89%	90%	500-1900mA
c FN us (€ UU060A190AQ		1900mA	24-36VDC	± 5%	89%	90%	1000-2200mA
UU060A220AQ		2200mA	18-36VDC	± 5%	89%	90%	1000-2200mA

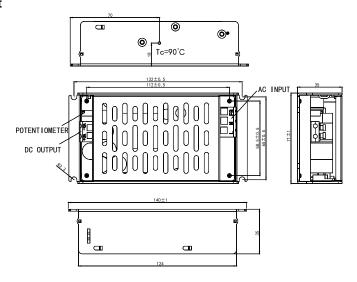
^{*1:} Current can be set by adjusting the potentiometer, the maximum output power can not exceed 60W.

■ Model Specifications - Dimming Control (0-10V)

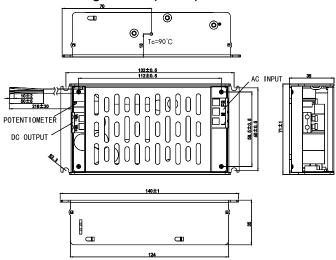
Part Number	Output Power	Output Current	Output Voltage	Current Accuracy	Efficiency (typical)	
			Output voltage	Current Accuracy	110VAC	220VAC
UU060A140AQD	60W	1400mA	25-38VDC	± 5%	88%	89%
UU060A180AQD		1760mA	24-36VDC	± 5%	88%	89%
(€ UU060A190AQD		1900mA	24-36VDC	± 5%	88%	89%

Mechanical Outline (unit:mm)

Constant Current



Constant Current with Dimming Control (0~10V)



LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use

LED Driver - Outdoor Use - DALI Intelligent Serie

.ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

General
Power Supplie

SPD

Append

Quick

LED Driver
- General Series
- Outdoor Use
- H Series Class I

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Serie
- Outdoor Use
- A Series

- General Series - Outdoor Use - Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Serie

LED Driver - Intelligent Serie - 30W Intelligent Seri

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver Intelligent Series 50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

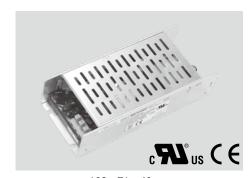
LED Driver
- Intelligent Series
- Other Series
General

SPD

UF100A Series - Constant Current Output & Dimming Control

Features

- Input voltage range 90-305VAC
- High efficiency: 91% typical
- Active PFC: 0.99 typical
- Surge protection
- Support 0-10V dimming
- Protections: OVP, OTP, SCP
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL/CE
- 5-year warranty



162 × 71 × 40mm

Electrical Specifications

90~305 VAC				
47~63 Hz				
0.99 (typical)				
40A Max (at 230 VAC, 25℃, cold start)				
1.2A Max at 110VAC, 0.6A Max at 220Vac				
89% (typical) at 110 VAC maximum load, 91% (typical) at 220 VAC maximum load				
100W				
< 1.5S at 220VAC maximum load, < 3S at 110VAC maximum load				
1mA Max (277VAC 50Hz input)				
Over Voltage, Over Temperature, Short Circuit				

Environmental Specifications

Operating temperature	-35°C ~ +60°C
Storage temperature	-40°C ~ +85°C
Operating humidity	10% ~ 90%RH
Storage humidity	5% ~ 95%RH
Cooling method	Convection
MTBF	300,000 hours at full load and 25°C ambient
Life time	50,000 hours at 40°C ambient
Reference dimension(L \times W \times H)	162 x 71 x 40 (mm)

CUL	UL8750
CE	EN61347-1, EN61347-2-13
Conducted Emissions	EN55015
Radiated Emissions	EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Surge Immunity Test	EN61000-4-5
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

Model Specifications - Constant Current

Part Number	Output Power	Output Current	Output Valtage	Current	Efficiency (typical)		Output Current
	Output Fower		Output voitage	Accuracy	110VAC	220VAC	Adj. Range*1
UF100A075AQ		750mA	90-137VDC	± 5%	90%	92%	350-900mA
UF100A085AQ		850mA	72-120VDC	± 5%	90%	92%	500-1000mA
₽ us C € UF100A150AQ	1	1500mA	43-67VDC	± 5%	90%	92%	500-1750mA
UF100A170AQ	100W	1700mA	30-50VDC	± 5%	89%	91%	750-2250mA
UF100A048AP		2100mA	30-45VDC	± 5%	89%	91%	1400-2300mA
UF100A250AQ		2500mA	24-40VDC	± 5%	89%	91%	1600-3000mA
□ \$1 us (€ UF100A300AQ		3000mA	24-35VDC	± 5%	89%	91%	1000-3500mA

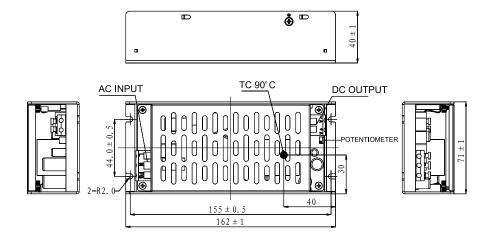
^{*1:} Current can be set by adjusting the potentiometer, the maximum output power can not exceed 100W.

■ Model Specifications - Dimming Control (0-10V)

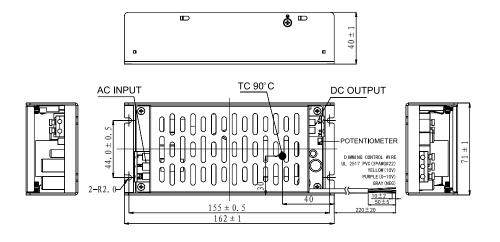
Part Number	Output Power	Output Current	Output Voltage	Current Accuracy	Efficiency (typical)	
Part Nulliber			Output voltage	Current Accuracy	110VAC	220VAC
UF070A110AQD		1100mA	43-67VDC	± 5%	89%	91%
UF070A210AQD	100W	2100mA	24-35VDC	± 5%	89%	91%
UF100A097AQD		970mA	72-105VDC	± 5%	89%	91%
□ \$1 us (€ UF100A150AQD		1500mA	43-67VDC	± 5%	89%	91%
₽ us (€ UF100A300AQD		3000mA	24-35VDC	± 5%	89%	91%

■ Mechanical Outline (unit:mm)

Constant Current



Constant Current with Dimming Control (0~10V)



Number System

Quick

LED Driver
- General Serie
- Outdoor Use
- H Series Class I

- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver - Outdoor Use - DALI Intelligent Seri

ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

.ED Driver Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

General
Power Supplie

SPD

Appen

Quick Selection

- General Series - Outdoor Use - H Series Class I - H Series Class II

- LED Driver
 General Series
 Outdoor Use
- General Serie - Outdoor Use - A Series
- LED Driver
 General Serie
 Outdoor Use
 Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Seri
- LED Driver
 Intelligent Seri
- LED Driver
 Intelligent Serie
 40W Intelligent Serie
- LED Driver
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 Other Series

- MF Series

PU012 Series - Constant Voltage Output

Features

- Input voltage range: 90-305VACHigh efficiency: 85% typicalActive PFC: 0.97 typical
- IP66 compliant
- Protections: OVP, OCP, SCP
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL/CE
- 5-year warranty



 $85 \times 36 \times 23$ mm

Electrical Specifications

Input voltage range	90~305VAC		
Frequency	47~63Hz		
Power factor	0.97 at 110VAC; 0.94 at 220VAC (typical)		
Inrush current	15A MAX (25℃ at 220VAC, cold start)		
Input current	0.18A MAX at 110VAC; 0.1A MAX at 220VAC		
Efficiency	85% (typical) at 220VAC maximum load		
Maximum power	12W		
Line regulation	± 3%		
Load regulation	± 3%		
Leakage current	0.3mA MAX		
Hold-up time	Half cycle		
Protections	Over voltage, over current, short circuit		

Environmental Specifications

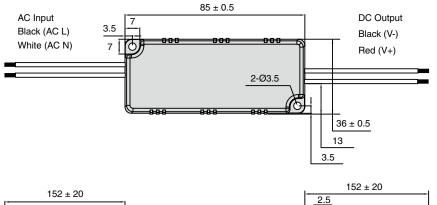
Operating temperature	-30℃ ~ +60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	90℃
Humidity	5% ~ 95%RH
Cooling method	Convection
Isolation voltage	Input / output 3750VAC
Vibration	5-55Hz/2g, 30minutes
MTBF	300,000 hours full load at 25°C ambient
Life time	50,000 hours at 50℃ ambient
Reference dimension (L × W × H)	85 × 36 × 23 (mm)

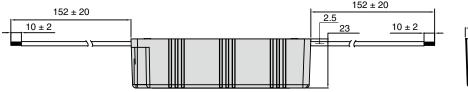
UL8750, UL935, UL1012, UL1310,CSA-C22.2 No. 107.1, CSA-C22.2 NO. 223-M91 Class 2	
EN 61347-1, EN61347-2-13	
FCC Part15 Class B / EN55015	
FCC Part15 Class B / EN55015	
EN61000-3-2	
EN61000-3-3	
EN61000-4-2	
EN61000-4-3	
EN61000-4-4	
EN61000-4-6	
EN61000-4-8	
EN61000-4-11	
EN61547	

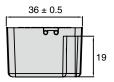
■ Model Specifications - constant voltage

Part Number	Output Valtage	MAX Output Current	Voltage Acquirecy	Efficiency (typical)	
Part Number	Output Voltage	WAX Output Current	Voltage Accuracy	110VAC	220VAC
PU012A048AP	48VDC	250mA	± 5%	85%	85%
PU012A036AP	36VDC	350mA	± 5%	84%	84%
PU012A024AP	24VDC	500mA	± 5%	83%	83%
PU012A016AP	16VDC	800mA	± 5%	82%	82%
PU012A012AP	12VDC	1000mA	± 5%	80%	80%

■ Mechanical Outline (unit: mm)







LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver - General Series - Outdoor Use - A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Serie

ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver
Intelligent Series

LED Driver
Intelligent Series

LED Driver
- Intelligent Series

General
Power Supplie
- MF Series

SPF

.

Quick Selection

- General Series - Outdoor Use - H Series Class I - H Series Class II

- LED Driver
 General Series
 Outdoor Use
 Half Potted Series
- LED Driver
 General Serie
 Outdoor Use
 A Series
- General Serie - Outdoor Use - Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
 Intelligent Seri
- LED Driver
 Intelligent Serie
 40W Intelligent Serie
- LED Driver
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 Other Series

- MF Series

Features

- Input voltage range: 90-305VACHigh efficiency: 88% typicalActive PFC: 0.97 typical
- IP66 compliant
- Protections: OVP, OCP, SCP
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL / CE
- Dimming control: 0 ~ 10VDC / PWM
- 5-year warranty



95 × 70 × 32mm

Electrical Specifications

Input voltage range	90~305 VAC		
Frequency	47~63Hz		
Power factor	0.97 at 110VAC; 0.92 at 220VAC (typical)		
Inrush current	15A MAX (25℃ at 220VAC, cold start)		
Input current	0.5A MAX at 110VAC; 0.25A MAX at 220VAC		
Efficiency	88% (typical) at 220VAC maximum load		
Maximum power	40W		
Line regulation	±3%		
Load regulation	±3%		
Leakage current	0.5mA MAX(at 277 VAC)		
Hold-up time	Half cycle		
Protections	Over voltage, over current, short circuit		

PU040 Series - Constant Voltage Output & Dimming Control

Environmental Specifications

Operating temperature	-30℃ ~ +60℃	
Storage temperature	-40℃ ~ +85℃	
Maximum case temperature	90℃	
Humidity	5% ~ 95%RH	
Cooling method	Convection	
Isolation voltage	Input / output 3750VAC	
Vibration	5-55Hz/2g, 30minutes	
MTBF	300,000 hours full load at 25℃ ambient	
Life time	50,000 hours at 50°C ambient	
Reference dimension (L × W × H)	95 × 70 × 32 (mm)	

CUL	UL8750, UL935, UL1012, UL1310,CSA-C22.2 No. 107.1, CSA-C22.2 NO. 223-M91 Class 2	
CE	EN 61347-1, EN61347-2-13	
Conducted emissions	FCC Part15 Class B / EN55015	
Radiated emissions	FCC Part15 Class B / EN55015	
Harmonic current emissions	EN61000-3-2	
Voltage fluctuations and flicker	EN61000-3-3	
Electrostatic discharge	EN61000-4-2	
RFE field susceptibility	EN61000-4-3	
Electrical fast transient	EN61000-4-4	
Conducted radio frequency	EN61000-4-6	
Power frequency magnetic field test	EN61000-4-8	
Voltage dips	EN61000-4-11	
Electromagnetic immunity	EN61547	

Model Specifications - constant voltage

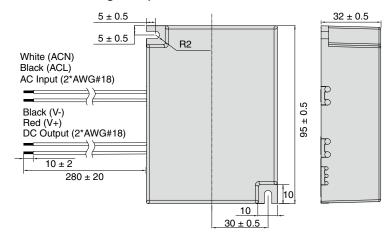
Part Number	Output Voltage	MAX Output Current	Voltage Accuracy	Efficiency (typical)	
Fait Number				110VAC	220VAC
PU040A048AP	48VDC	830mA	± 5%	86%	87%
PU040A036AP	36VDC	1100mA	± 5%	86%	87%
PU040A024AP	24VDC	1670mA	± 5%	85%	86%
PU040A018AP	18VDC	2220mA	± 5%	84%	85%
PU040A012AP	12VDC	3330mA	± 5%	83%	84%
PU040A009AP	9VDC	4450mA	± 5%	82%	83%

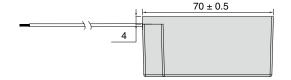
■ Model Specifications - dimming control (0~10V)

Part Number	shor Output Current Output Voltage Current Acquirecy	Output Voltage	Efficiency (typical)		
Part Number	Output Current		Current Accuracy	110VAC	220VAC
PU040A035AQD	350mA	38-114VDC	± 5%	87%	88%
PU040A045AQD	450mA	30-89VDC	± 5%	87%	88%
PU040A070AQD	700mA	18-54VDC	± 5%	86%	87%
PU040A090AQD	900mA	18-45VDC	± 5%	86%	87%
PU040A105AQD	1050mA	12-36VDC	± 5%	86%	87%
PU040A120AQD	1200mA	11-33VDC	± 5%	86%	87%
PU040A140AQD	1400mA	10-29VDC	± 5%	86%	87%
PU040A166AQD	1660mA	8-24VDC	± 5%	85%	86%
PU040A182AQD	1820mA	12-22VDC	± 5%	85%	86%
PU040A200AQD	2000mA	10-20VDC	± 5%	84%	85%
PU040A222AQD	2220mA	6-18VDC	± 5%	84%	85%
PU040A333AQD	3330mA	4-12VDC	± 5%	83%	84%

Mechanical Outline (unit: mm)

Constant Voltage Output





LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver - Outdoor Use - DALI Intelligent Serie

> D Driver ntelligent Series 0W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Series
- Other Series

General
Power Supplie
- MF Series

SPD

Append

Quick

LED Driver - General Serie - Outdoor Use - A Series

LED Driver - General Series - Outdoor Use - Other Series

LED Driver - Outdoor Use - DALI Intelligent Seri



LED Driver - Intelligent Series - 40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

SPD

MU050AXXXAQ Series

Features

- Input voltage range: 90-305VACHigh efficiency: 89% typical
- Active PFC: 0.99 typical
- IP67 design for indoor or outdoor installations
- Protections: OVP, OTP, SCP
- Compliance to CQC, FCC Part 15 Class B, EN55015
- 5-year warranty



193 × 42.5 × 34.5mm

Electrical Specifications

Input voltage range	90~305VAC	
Frequency	47~63Hz	
Power factor	0.99 at 110VAC; 0.97 at 220VAC (typical)	
THD,Typical	< 20% at 100 ~ 277VAC input, 100% load conditions	
AC Current	0.65A at 100VAC and rated load	
Inrush current	15A MAX (25℃, at 220 VAC, cold start)	
Line regulation	±5%	
Load regulation	± 5%	
Leakage current	0.75mA at 277VAC input	
Turn-on Delay Time	<3s at 120VAC, <1.5s at 220VAC	
Protections	Over Voltage Protection, Short Circuit Protection, Over Temperature Protection	

Environmental Specifications

Working Temperature	Ta: -30 ~+60℃, Tc: Max. 90℃	
Working Humidity	20% ~ 95%RH	
Storage Temperature	-40 ~ +85℃	
Humidity	10% ~ 95%RH	
Vibration	2G (10 ~ 500HZ), 10 min/circle, period for 60 min each along X, Y, Z axes	
MTBF	300,000 hours, measured at full load, 25 °C ambient temperature MIL-HDBK-217F(25 °C)	
Dimension(L × W × H)	193 x 42.5 x34.5mm	

Safety Standard	CQC , EN61347-1 , EN61347-2-13
Withstand Voltage	I/P-O/P:3.75KVAC,5mA,1minite; I/P-FG:1.5KVAC,5mA,1minite; O/P-FG:0.5KVAC,5mA,1minite.
Isolation Resistance	I/P-O/P , I/P-FG : 500VDC , 100M Ω , 1minite
EMC Emission	EN55015/FCC Part 15 Class B, EN61000-3-2 Class C, EN61000-3-3
EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547

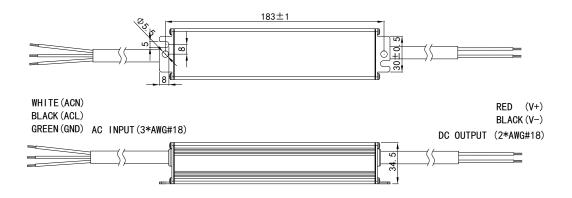
LED Driver
- General Series
- Outdoor Use
- H Series Class I

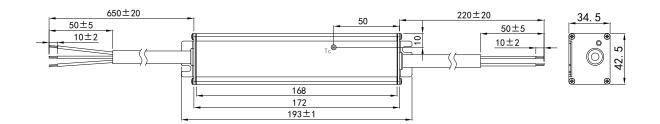
LED Driver
- General Series
- Outdoor Use

Model Specifications

Model	DC Voltage	Rated Current	Voltage Range		Efficiency	eiency (typical)	
Model	DC Voltage	nated Current	voitage hange	Gurient Accuracy	110VAC	220VAC	
MU050A035AQ	143V	350mA	90~143VDC	± 5%	89%	90%	
MU050A050AQ	100V	500mA	60~100VDC	± 5%	88.5%	89.5%	
MU050A065AQ	77V	650mA	50~77VDC	± 5%	88%	89%	
MU050A070AQ	72V	700mA	43~72VDC	± 5%	88%	89%	
MU050A105AQ	48V	1050mA	29~48VDC	± 5%	88%	89%	
MU050A120AQ	41V	1200mA	25~41VDC	± 5%	88%	89%	
MU050A140AQ	36V	1400mA	24~36VDC	± 5%	87%	88%	
MU050A182AQ	27V	1820mA	18~27VDC	± 5%	86%	87%	
MU050A240AQ	21V	2350mA	12~21VDC	± 5%	85%	86%	

Mechanical Outline (unit: mm)





Numbe System

Quick

- General Serie - Outdoor Use - H Series Class I

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Serie

ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver Intelligent Series 50W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series

General
Power Supplie
- MF Series

SPI

Quick

LED Driver - General Series - Outdoor Use - H Series Class I

LED Driver - General Series - Outdoor Use

LED Driver - General Series - Outdoor Use - A Series

LED Driver - General Series - Outdoor Use - Other Series

LED Driver - Outdoor Use - DALI Intelligent Seri

LED Driver - Intelligent Serie

LED Driver - Intelligent Series - 40W Intelligent Series

LED Driver - Intelligent Series



LED Driver - Intelligent Series - Other Series

General Power Supplies

SPD

MU050AXXXAQD Series

Features

- Input voltage range: 90-305VACHigh efficiency: 89% typical
- Active PFC: 0.99 typical
- IP67 design for indoor or outdoor installations
- Dimming function: 0 ~ 10VDC
 Protections: OVP, SCP, OTP
- Compliance to CQC, FCC Part 15 Class B, EN55015
- 5-year warranty



193 × 42.5 × 34.5mm

Electrical Specifications

Input voltage range	90~305VAC		
Frequency	47~63Hz		
Power factor	0.99 at 110VAC; 0.97 at 220VAC (typical)		
THD	< 20% at 100 ~ 277VAC input, 100% load conditions		
Inrush current	15A at 220VAC/50Hz input 25℃ cold start		
AC current	0.65A at 100VAC and rated load		
Line regulation	± 5%		
Load regulation	± 5%		
Leakage current	0.75mA at 277VAC input		
Protections	Over Voltage Protection, Short Circuit Protection, Over Temperature Protection		

Environmental Specifications

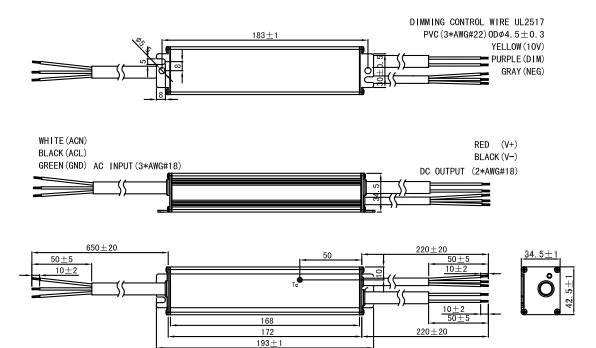
Working temperature	Ta: -30 ~+60℃,To: Max. 90℃
Working Humidity	20% ~ 95%RH
Storage temperature , Humidity	-40~ +85℃ , 10%~ 95% RH
Vibration	2G (10 ~ 500HZ), 10 min/circle, period for 60 min each along X, Y, Z axes
MTBF	300,000 hours, measured at full load, 25°C ambient temperature MIL-HDBK-217F(25°C)
Reference dimension(L × W × H)	193 × 42.5 × 34.5 (mm)

Safety Standard	CQC , EN61347-1 , EN61347-2-13		
Withstand Voltage	I/P-O/P: 3.75KVAC, 5mA, 1 minite I/P-FG: 1.5KVAC, 5mA, 1 minite O/P-FG: 0.5KVAC, 5mA, 1 minite		
Isolation Resistance	I/P-O/P , I/P-FG : 500VDC,100M Ω,1 minite		
EMC Emission	EN55015/FCC Part 15 Class B, EN61000-3-2 Class C, EN61000-3-3		
EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547		

Model Specifications

Part Number	DC Voltage	Rated Current	Voltore Dense	Command Assumance	Efficiency (typical)	
Part Number	DC Voltage	nated Current	Voltage Range	Current Accuracy	110VAC	220VAC
MU050A035AQD	142V	350mA	95-142VDC	5%	88%	89%
MU050A050AQD	100V	500mA	70-100VDC	5%	88%	89%
MU050A070AQD	72V	700mA	50-72VDC	5%	87%	88%
MU050A240AQD	21V	2350mA	15-21VDC	5%	85%	86%

■ Mechanical Outline (unit: mm)



Quick Selection

- LED Unver

 General Series

 Outdoor Use

 H Series Class I

 H Series Class II
- LED Driver
 General Series
- LED Driver
 General Serie
 Outdoor Use

- General Serie - Outdoor Use - Other Series

- LED Driver
 Outdoor Use
 DALI Intelligent Serie
- LED Driver
- LED Driver
 Intelligent Series
 40W Intelligent Serie
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
- General

SPD

MU050A Series - Constant Voltage Output

Features

- Input voltage range: 90-305VAC
 High efficiency: 91% typical
 Active PFC: 0.98 typical
- Surge protection
- IP67 compliant
- Protections: OVP, SCP, OTP, OLP
- · Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CE
- 5-year warranty



193 × 42.5 × 34.5mm

Electrical Specifications

Input voltage range	90~305VAC		
Frequency	47~63Hz		
Power factor	0.98 at 110VAC; 0.94 at 220VAC (typical)		
Inrush current	15A MAX (25℃ at 220VAC, cold start)		
Input current	0.7A MAX at 110VAC; 0.35A MAX at 220VAC		
Efficiency	91% (typical) at 220VAC maximum Load		
Maximum power	50W		
Line regulation	±3%		
Load regulation	± 3%		
Leakage current	0.5mA MAX		
Protections	Over Voltage, Short Circuit, Over Temperature, Over Load		

Environmental Specifications

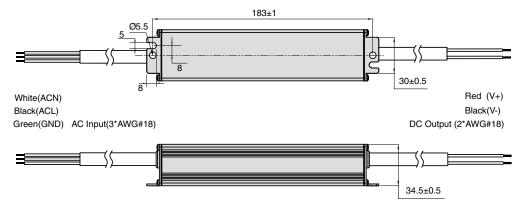
Operating temperature	-30℃ ~ +60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	90℃
Humidity	5% ~ 95%RH
Cooling method	Convection
Isolation voltage	Input / output 3750VAC
MTBF	300,000 hours at full load and 25°C ambient
Life time	50,000 hours at 50°C ambient
Reference dimension (L x W x H) 193 × 42.5 × 34.5 (mm)	

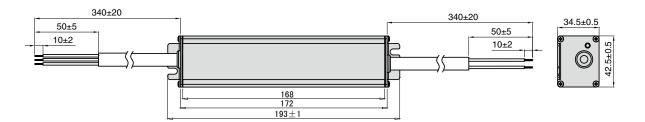
CUL	UL8750, UL935, UL1012, UL1310,CSA-C22.2 No. 107.1, CSA-C22.2 NO. 223-M91 Ck	
CE	EN 61347-1, EN61347-2-13	
Conducted emissions	FCC Part15 Class B / EN55015	
Radiated emissions	FCC Part15 Class B / EN55015	
Harmonic current emissions	EN61000-3-2	
Voltage fluctuations and flicker	EN61000-3-3	
Electrostatic discharge	EN61000-4-2	
RFE field susceptibility	EN61000-4-3	
Electrical fast transient	EN61000-4-4	
Surge immunity test	EN61000-4-5	
Conducted radio frequency	EN61000-4-6	
Power frequency magnetic field test	EN61000-4-8	
Voltage dips	EN61000-4-11	
Electromagnetic immunity	EN61547	

■ Model Specifications - Constant Voltage

Part Number	Output Voltage	Max Output Current Voltage Accuracy		Efficiency (typical)	
Part Number	Output voltage	wax Output Gurient	Voltage Accuracy	110VAC	220VAC
MU050A012AP	12VDC	4200mA	± 5%	84%	85%
MU050A018AP	18VDC	2780mA	± 5%	86.5%	87.5%
MU050A024AP	24VDC	2100mA	± 5%	87.5%	88.5%
MU050A036AP	36VDC	1400mA	± 5%	89%	90%
MU050A048AP	48VDC	1050mA	± 5%	90%	91%

Mechanical Outline (unit: mm)





LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver - General Series - Outdoor Use - A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

ED Driver
Outdoor Use

DALI Intelligent Series

ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

General
Power Supplies
- MF Series

SPI

Appendi

Quick Selection

LED Driver - General Series - Outdoor Use - H Series Class I

LED Driver - General Series

LED Driver - General Series - Outdoor Use

- General Serie - Outdoor Use - Other Series

LED Driver - Outdoor Use - DALI Intelligent Serie

LED Driver - Intelligent Serie

LED Driver - Intelligent Series - 40W Intelligent Series

LED Driver

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

MU060A Series - Constant Current Output & Dimming Control

Features

- Input voltage range: 90-305VACHigh efficiency: 90% typicalActive PFC: 0.99 typical
- Surge protection
- IP67 compliant
- Protections: OVP, SCP, OTP
- · Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL/CE
- Dimming control: 0 ~ 10VDC / PWM
- 5-year warranty



177 × 67.5 × 37mm

Electrical Specifications

Input voltage range	90~305VAC		
Frequency	47~63Hz		
Power factor	0.99 at 110VAC; 0.95 at 220VAC (typical)		
Inrush current	50A MAX (25℃ at 220VAC, cold start)		
Input current	0.8A MAX at 110VAC; 0.36A MAX at 220VAC		
Efficiency	90% (typical) at 220VAC maximum load		
Maximum power	60W		
Line regulation	±1%		
Load regulation	± 3%		
Leakage current	1mA MAX		
Protections	Over voltage, short circuit, over temperature		

Environmental Specifications

Operating temperature	-30℃ ~ +70℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	90℃
Humidity	5% ~ 95%RH
Cooling method	Convection
Isolation voltage	Input/output 3000VAC
MTBF	300,000 hours full load at 25°C ambient
Life time	50,000 hours at 50℃ ambient
Reference dimension (L x W xH)	177 × 67.5 × 37 (mm)

CUL	UL8750, UL935, UL1012, UL1310,CSA-C22.2 No. 107.1, CSA-C22.2 NO. 223-M91 Clas		
CE	EN 61347-1, EN61347-2-13		
Conducted emissions	FCC Part15 Class B / EN55015		
Radiated emissions	FCC Part15 Class B / EN55015		
Harmonic current emissions	EN61000-3-2		
Voltage fluctuations and flicker	EN61000-3-3		
Electrostatic discharge	EN61000-4-2		
RFE field susceptibility	EN61000-4-3		
Electrical fast transient	EN61000-4-4		
Surge immunity test	EN61000-4-5		
Conducted radio frequency	EN61000-4-6		
Power frequency magnetic field test	EN61000-4-8		
Voltage dips	EN61000-4-11		
Electromagnetic immunity	EN61547		

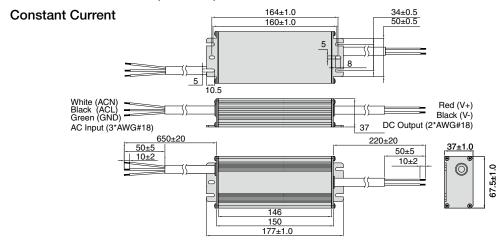
Model Specifications - constant current

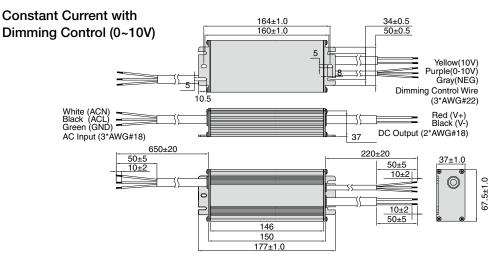
Part Number	Output Current Output Voltage	Output Voltage	Current Accuracy	Efficiency (typical)	
Part Number	Output Gurrent	Output voltage	Gurrent Accuracy	110VAC	220VAC
MU060A035AQ	350mA	86-170VDC	± 5%	88%	90%
MU060A045AQ	450mA	67-134VDC	± 5%	87%	89%
♠ MU060A070AQ	700mA	43-86VDC	± 5%	86%	88%
MU060A105AQ	1050mA	29-58VDC	± 5%	86%	88%
MU060A140AQ	1400mA	21-43VDC	± 5%	86%	88%
CB MU060A170AQ	1700mA	18-36VDC	± 5%	86%	88%
MU060A230AQ	2300mA	13-27VDC	± 5%	85%	87%
MU060A330AQ	3300mA	9-18VDC	± 5%	84%	86%
MU060A500AQ	5000mA	6-12VDC	± 5%	82%	84%

■ Model Specifications - dimming control (0~10V)

Dort Number	Part Number Output Current	Output Voltage	Current Accuracy	Efficiency (typical)	
Part Number	Output Gurrent	Output voitage	Current Accuracy	110VAC	220VAC
MU060A035AQD	350mA	86-170VDC	± 5%	88%	90%
MU060A045AQD	450mA	67-134VDC	± 5%	87%	89%
MU060A070AQD	700mA	43-86VDC	± 5%	86%	88%
MU060A105AQD	1050mA	29-58VDC	± 5%	86%	88%
MU060A140AQD	1400mA	21-43VDC	± 5%	86%	88%
MU060A170AQD	1700mA	18-36VDC	± 5%	86%	88%
MU060A230AQD	2300mA	13-27VDC	± 5%	85%	87%
MU060A330AQD	3300mA	9-18VDC	± 5%	84%	86%
MU060A500AQD	5000mA	6-12VDC	± 5%	82%	84%

■ Mechanical Outline (unit: mm)





Number System

Quick

LED Driver
- General Ser
- Outdoor Us
- H Series Class

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

ED Driver
Outdoor Use
DALI Intelligent Ser

ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

General
Power Supplie

SPD

Append

Quick

- General Series
- Outdoor Use
- H Series Class I

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- A Series

- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Serie

LED Driver
- Intelligent Serie

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver
Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

- MF Series

MU060A Series - Constant Voltage Output

Features

Input voltage range: 90-305VAC
High efficiency: 91.5% typical
Active PFC: 0.99 typical

Surge protection

- IP67 compliant
- Protections: OVP, OCP, SCP, OTP
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL/CE
- 5-year warranty



 $190\times67.5\times37mm$

Electrical Specifications

Input voltage range	90~305VAC	
Frequency	47~63Hz	
Power factor	0.99 at 110VAC; 0.95 at 220VAC (typical)	
Inrush current	50A MAX (25℃ at 220VAC, cold start)	
Input current	0.8A MAX at 110VAC; 0.4A MAX at 220VAC	
Efficiency	91.5% (typical) at 220VAC maximum load	
Maximum power	60W	
Line regulation	±1%	
Load regulation	± 2%	
Leakage current	1mA MAX	
Protections	Over voltage, over current, short circuit, over temperature	

Environmental Specifications

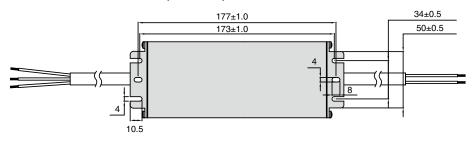
Operating temperature	-35℃ ~ +70℃		
Storage temperature	-40℃ ~ +85℃		
Maximum case temperature	90℃		
Humidity	5% ~ 95%RH		
Cooling method	Convection		
Isolation voltage	Input/output 3000VAC		
MTBF	300,000 hours full load at 25°C ambient		
Life time	50,000 hours at 50°C ambient		
Reference Dimension (L x W x H)	190 × 67.5 × 37 (mm)		

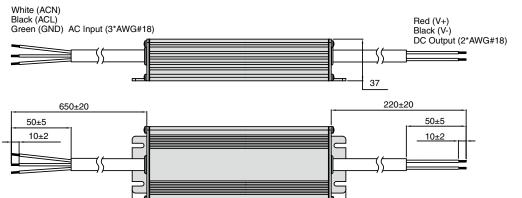
CUL	UL8750, UL935, UL1012, UL1310,CSA-C22.2 No. 107.1, CSA-C22.2 NO. 223-M91 Class		
CE	EN 61347-1, EN61347-2-13		
Conducted emissions	FCC Part15 Class B / EN55015		
Radiated emissions	FCC Part15 Class B / EN55015		
Harmonic current emissions	EN61000-3-2		
Voltage fluctuations and flicker	EN61000-3-3		
Electrostatic discharge	EN61000-4-2		
RFE field susceptibility	EN61000-4-3		
Electrical fast transient	EN61000-4-4		
Surge immunity test	EN61000-4-5		
Conducted radio frequency	EN61000-4-6		
Power frequency magnetic field test	EN61000-4-8		
Voltage dips	EN61000-4-11		
Electromagnetic immunity	EN61547		

■ Model Specifications - Constant Voltage

Part Number	Output Voltage	MAX Output Current	Valtara Assurant	Efficiency (typical)	
Part Number	Output voltage	WAX Output Current	Voltage Accuracy	110VAC	220VAC
MU060A012AP	12VDC	5000mA	± 5%	87.5%	89.5%
MU060A024AP	24VDC	2500mA	± 5%	89.5%	91.5%
MU060A036AP	36VDC	1670mA	± 5%	89.5%	91.5%
MU060A042AP	42VDC	1430mA	± 5%	89.5%	91.5%
MU060A048AP	48VDC	1250mA	± 5%	89.5%	91.5%
MU060A054AP	54VDC	1110mA	± 5%	89.5%	91.5%
MU060A081AP	81VDC	740mA	± 5%	89.5%	91.5%
MU060A105AP	105VDC	570mA	± 5%	89.5%	91.5%

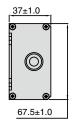
Mechanical Outline (unit: mm)





159 164

190±1.0



Quick

LED Driver - General Series - Outdoor Use - H Series Class I

- LED Driver
 General Series
- LED Driver
 General Serie
 Outdoor Use

- General Serie - Outdoor Use - Other Series

- Outdoor Use - DALI Intelligent Ser

LED Driver - Intelligent Serie

LED Driver
- Intelligent Series

LED Driver - Intelligent Series



LED Driver
- Intelligent Series
- Other Series

General
Power Supplies

SPD

MU075A Series - Constant Current Output & Dimming Control

Features

- Input voltage range: 90-305VAC
 High efficiency: 90% typical
 Active PFC: 0.99 typical
- Surge protection
- IP67 compliant
- Protections: OVP, SCP, OTP
- · Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL/CE
- Dimming control: 0 ~ 10VDC / PWM
- 5-year warranty



177 × 67.5 × 37mm

Electrical Specifications

Input voltage range	90~305VAC	
Frequency	47~63Hz	
Power factor	0.99 at 110VAC; 0.96 at 220VAC (typical)	
Inrush current	50A MAX (25℃ at 220VAC, cold start)	
Input current	0.9A MAX at 110VAC; 0.42A MAX at 220VAC	
Efficiency	90% (typical) at 220VAC maximum load	
Maximum power	75W	
Line regulation	±1%	
Load regulation	± 3%	
Leakage current	1mA MAX	
Protections	Over voltage, short circuit, over temperature	

Environmental Specifications

Operating temperature	-35℃ ~ +70℃	
Storage temperature	-40℃ ~ +85℃	
Maximum case temperature	90℃	
Humidity	5% ~ 95%RH	
Cooling method	Convection	
Isolation voltage	Input / output 3000VAC	
MTBF	300,000 hours full load at 25°C ambient	
Life time	50,000 hours at 50℃ ambient	
Reference dimension (L x W x H)	177 × 67.5 × 37 (mm)	

CUL	UL8750, UL935, UL1012, UL1310,CSA-C22.2 No. 107.1, CSA-C22.2 NO. 223-M91 Class 2		
CE	EN 61347-1, EN61347-2-13		
Conducted emissions	FCC Part15 Class B / EN55015		
Radiated emissions	FCC Part15 Class B / EN55015		
Harmonic current emissions	EN61000-3-2		
Voltage fluctuations and flicker	EN61000-3-3		
Electrostatic discharge	EN61000-4-2		
RFE field susceptibility	EN61000-4-3		
Electrical fast transient	EN61000-4-4		
Surge immunity test	EN61000-4-5		
Conducted radio frequency	EN61000-4-6		
Power frequency magnetic field test	EN61000-4-8		
Voltage dips	EN61000-4-11		
Electromagnetic immunity	EN61547		

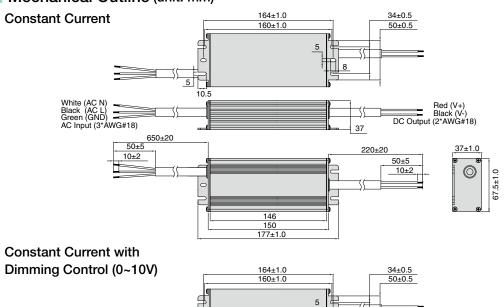
Model Specifications - Constant Current

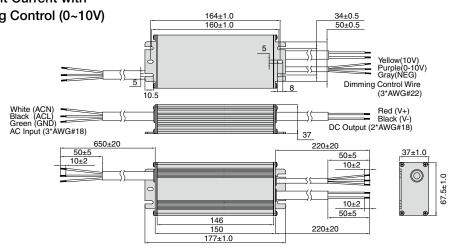
Dort Number	Part Number Output Current Outp	Output Voltage	Current Accuracy	Efficiency (typical)	
Fart Number	Output Gurrent	Output voltage	Gurrent Accuracy	110VAC	220VAC
MU075A035AQ	350mA	107-214VDC	± 5%	88%	90%
MU075A045AQ	450mA	83-166VDC	± 5%	88%	90%
MU075A070AQ	700mA	54-108VDC	± 5%	87%	89%
MU075A105AQ	1050mA	36-72VDC	± 5%	86%	88%
MU075A140AQ	1400mA	27-54VDC	± 5%	86%	88%
MU075A210AQ	2100mA	18-36VDC	± 5%	85%	87%
MU075A280AQ	2800mA	13-27VDC	± 5%	85%	87%
MU075A375AQ	3750mA	10-20VDC	± 5%	84%	86%
MU075A500AQ	5000mA	7-15VDC	± 5%	82%	84%

■ Model Specifications - Dimming Control (0~10V)

Part Number Outs	Output Current	put Current Output Voltage	Commont Assumance	Efficiency (typical)	
Part Number	Output Gurrent	Output voitage	Current Accuracy	110VAC	220VAC
MU075A035AQD	350mA	107-214VDC	± 5%	88%	90%
MU075A045AQD	450mA	83-166VDC	± 5%	88%	90%
	700mA	54-108VDC	± 5%	87%	89%
	1050mA	36-72VDC	± 5%	86%	88%
	1400mA	27-54VDC	± 5%	86%	88%
MU075A210AQD	2100mA	18-36VDC	± 5%	85%	87%
MU075A280AQD	2800mA	13-27VDC	± 5%	85%	87%
MU075A375AQD	3750mA	10-20VDC	± 5%	84%	86%
MU075A500AQD	5000mA	7-15VDC	± 5%	82%	84%

■ Mechanical Outline (unit: mm)





Quick Selection

LED Driver
- General Series
- Outdoor Use
- H Series Class I

LED Driver
- General Series
- Outdoor Use

- General Series
- Outdoor Use
- A Series

- General Series - Outdoor Use - Other Series



LED Driver
- Intelligent Serie
- 30W Intelligent Serie

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

SPD

MU075A Series - Constant Voltage Output

Features

Input voltage range: 90-305VAC
High efficiency: 92% typical
Active PFC: 0.99 typical

• Surge protection

• IP67 compliant

• Protections: OVP, OCP, SCP, OTP

· Compliance to worldwide safety regulations for lighting

• Suitable for dry/damp locations

• CUL/CE

• 5-year warranty



190 × 67.5 × 37mm

Electrical Specifications

Input voltage range	90~305VAC		
Frequency	47~63Hz		
Power factor	0.99 at 110VAC; 0.95 at 220VAC (typical)		
Inrush current	50A MAX (25℃ at 220VAC, cold start)		
Input current	0.9A MAX at 110VAC; 0.45A MAX at 220VAC		
Efficiency	92% (typical) at 220VAC maximum load		
Maximum power	75W		
Line regulation	±1%		
Load regulation	± 2%		
Leakage current	1mA MAX		
Protections	Over voltage, over current, short circuit, over temperature		

Environmental Specifications

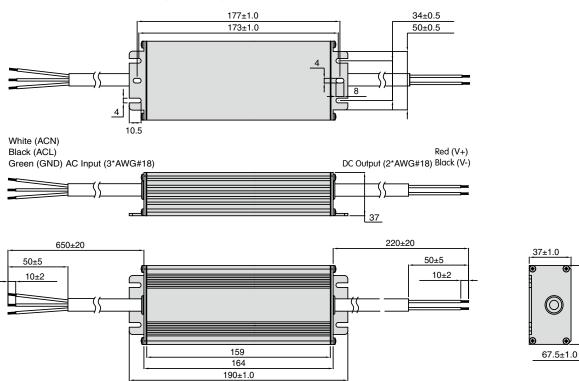
Operating temperature	-35℃ ~ +70℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	90℃
Humidity	5% ~ 95%RH
Cooling method	Convection
Isolation voltage	Input / output 3000VAC
MTBF	300,000 hours full load at 25°C ambient
Life time	50,000 hours at 50°C ambient
Reference Dimension (L x W x H)	190 × 67.5 × 37 (mm)

CUL	UL8750, UL935, UL1012, UL1310,CSA-C22.2 No. 107.1, CSA-C22.2 NO. 223-M91 Class 2
CE	EN 61347-1, EN61347-2-13
Conducted emissions	FCC Part15 Class B / EN55015
Radiated emissions	FCC Part15 Class B / EN55015
Harmonic current emissions	EN61000-3-2
Voltage fluctuations and flicker	EN61000-3-3
Electrostatic discharge	EN61000-4-2
RFE field susceptibility	EN61000-4-3
Electrical fast transient	EN61000-4-4
Surge immunity test	EN61000-4-5
Conducted radio frequency	EN61000-4-6
Power frequency magnetic field test	EN61000-4-8
Voltage dips	EN61000-4-11
Electromagnetic immunity	EN61547

■ Model Specifications - Constant Voltage

Part Number	Output Voltage	MAX Output Current Voltage Accuracy Efficie		Efficiency	ncy (typical)	
Part Number	Output voltage	MAX Output Current	Voltage Accuracy	110VAC	220VAC	
MU075A012AP	12VDC	6.25A	± 5%	88%	90%	
MU075A024AP	24VDC	3.13A	± 5%	90%	92%	
MU075A036AP	36VDC	2.08A	± 5%	90%	92%	
MU075A042AP	42VDC	1.79A	± 5%	90%	92%	
MU075A048AP	48VDC	1.56A	± 5%	90%	92%	
MU075A054AP	54VDC	1.39A	± 5%	90%	92%	
MU075A081AP	81VDC	0.93A	± 5%	90%	92%	
MU075A105AP	105VDC	0.71A	± 5%	90%	92%	

■ Mechanical Outline (unit: mm)



LED Driver
- General Series
- Outdoor Use
- H Series Class I
- H Series Class II

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

ED Driver Outdoor Use DALI Intelligent Series

ED Driver ntelligent Series 80W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

.ED Driver Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series

General
Power Supplies

SPI

.

Quick

LED Driver - General Series - Outdoor Use - H Series Class I

- LED Driver
 General Series
- LED Driver
 General Serie
 Outdoor Use

- General Serie - Outdoor Use - Other Series

LED Driver - Outdoor Use - DALI Intelligent Serie

LED Driver - Intelligent Serie

LED Driver
- Intelligent Series

LED Driver - Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver

General Power Supplies

SPD

■ Features

• Input voltage range: 90-305VAC

High efficiency: 90% typicalActive PFC: 0.99 typical

- Surge protection
- IP67 compliant
- Protections: OVP, SCP, OTP
- · Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL/CE
- Dimming control: 0 ~ 10VDC / PWM
- 5-year warranty



 $201 \times 67.5 \times 37$ mm

Electrical Specifications

Input voltage range	90~305VAC		
Frequency	47~63Hz		
Power factor	0.99 at 110VAC; 0.96 at 220VAC		
Inrush current	50A MAX (25℃ at 220VAC, cold start)		
Input current	1.2A MAX at 110VAC; 0.6A MAX at 220VAC		
Efficiency	up to 90%		
Maximum power	96W		
Line regulation	±1%		
Load regulation	± 3%		
Leakage current	1mA MAX		
Protections	Over voltage, short circuit, over temperature		

MU096A Series - Constant Current Output & Dimming Control

Environmental Specifications

Operating temperature	-35℃ ~ +70℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	90℃
Humidity	5% ~ 95%RH
Cooling method	Convection
Isolation voltage	Input / output 3000VAC
MTBF	300,000 hours full load at 25°C ambient
Life time	50,000 hours at 50℃ ambient
Reference dimension (L x W x H)	201 × 67.5 × 37 (mm)

CUL	UL8750, UL935, UL1012, UL1310 Class 2, CSA-C22.2 No.107.1 CSA-C22.2 No.223-M91 Class 2
CE	EN 61347-1, EN61347-2-13
Conducted emissions	FCC Part15 Class B / EN55015
Radiated emissions	FCC Part15 Class B / EN55015
Harmonic current emissions	EN61000-3-2
Voltage fluctuations and flicker	EN61000-3-3
Electrostatic discharge	EN61000-4-2
RFE field susceptibility	EN61000-4-3
Electrical fast transient	EN61000-4-4
Surge immunity test	EN61000-4-5
Conducted radio frequency	EN61000-4-6
Power frequency magnetic field test	EN61000-4-8
Voltage dips	EN61000-4-11
Electromagnetic immunity	EN61547

Model Specifications - Constant Current

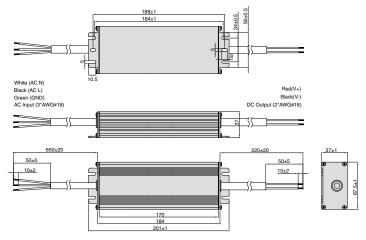
Part Number	Output Current	Output Voltage	Current Accuracy	y (typical)	
Part Number	Output Current	Output voitage	Gurrent Accuracy	110VAC	220VAC
MU096A175AQ	1750mA	55V	± 5%	86%	89%
MU096A210AQ	2100mA	46V	± 5%	85%	88%
MU096A245AQ	2450mA	39V	± 5%	85%	88%
MU096A280AQ	2800mA	34V	± 5%	85%	88%
MU096A315AQ	3150mA	30.5V	± 5%	84%	87%
MU096A357AQ	3570mA	27V	± 5%	84%	87%
MU096A420AQ	4200mA	23V	± 5%	84%	87%

■ Model Specifications - Dimming Control (0~10V)

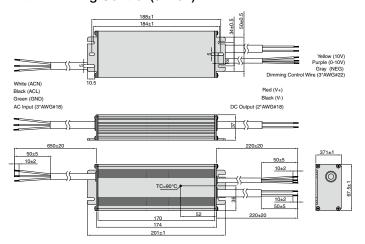
Part Number	Output Current	Output Voltage	Current Accuracy	Efficiency (typical)	
Fart Number	Output Current	Output voitage		110VAC	220VAC
MU096A175AQD	1750mA	55 V	± 5%	86%	89%
MU096A210AQD	2100mA	46V	± 5%	85%	88%
MU096A245AQD	2450mA	39V	± 5%	85%	88%
MU096A280AQD	2800mA	34V	± 5%	85%	88%
MU096A315AQD	3150mA	30.5V	± 5%	84%	87%
MU096A357AQD	3570mA	27V	± 5%	84%	87%
MU096A420AQD	4200mA	23V	± 5%	84%	87%

Mechanical Outline (unit: mm)

Constant Current



Constant Current with Dimming Control (0~10V)



LED Driver

- General Series

- Outdoor Use

- H Series Class I

- H Series Class II

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Serie
- Outdoor Use
- Other Series

LED Driver - Outdoor Use - DALI Intelligent Serie

ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

General
Power Supplie
- MF Series

SPD

Append

Quick Selection

- LED Driver
 General Series
 Outdoor Use
 H Series Class I
- LED Driver
 General Series
- LED Driver
 General Serie
 Outdoor Use
- General Serie - Outdoor Use - Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
- Power Supplies
 MF Series

SPD

MU096A Series - Constant Voltage Output

Features

- Input voltage range: 90-305VACHigh efficiency: up to 90%
- Active PFC: 0.99 typical
- Surge protection
- IP67 compliant
- Protections: OVP, OCP, SCP, OTP
- · Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL/CE
- 5-year warranty



 $201\times67.5\times37mm$

Electrical Specifications

Input voltage range	90~305VAC
Frequency	47~63Hz
Power factor	0.99 at 110VAC; 0.96 at 220VAC
Inrush current	50A MAX (25°C at 220VAC, cold start)
Input current	1.2A MAX at 110VAC; 0.6A MAX at 220VAC
Efficiency	up to 90%
Maximum power	96W
Line regulation	±1%
Load regulation	±2%
Leakage current	1mA MAX
Protections	Over voltage, over current, short circuit, over temperature

Environmental Specifications

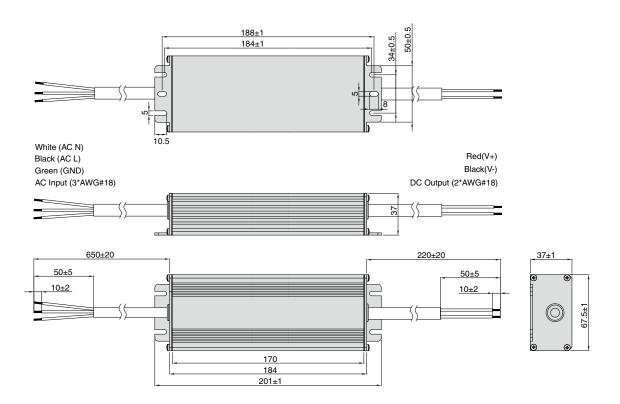
Operating temperature	-35℃ ~ +70℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	90℃
Humidity	5% ~ 95%RH
Cooling method	Convection
Isolation voltage	Input / output 3000VAC
MTBF	300,000 hours full load at 25℃ ambient
Life time	50,000 hours at 50 ℃ ambient
Reference Dimension (L x W x H)	201 × 67.5 × 37 (mm)

UL8750, UL935, UL1012, UL1310 Class 2, CSA-C22.2 No.107.1 CSA-C22.2 No.223-M91 Class 2
EN 61347-1, EN61347-2-13
FCC Part15 Class B / EN55015
FCC Part15 Class B / EN55015
EN61000-3-2
EN61000-3-3
EN61000-4-2
EN61000-4-3
EN61000-4-4
EN61000-4-5
EN61000-4-6
EN61000-4-8
EN61000-4-11
EN61547

Model Specifications - Constant Voltage

Part Number	Output Valtage	MAX Output Current	Voltage Acquirecy Efficiency		y (typical)
	Output Voltage	WAX Output Current Voita	Voltage Accuracy	110VAC	220VAC
© CB MU096A024AP	24 VDC	4.0A	± 5%	84%	87%
MU096A028AP	28VDC	3.4A	± 5%	84%	87%
MU096A036AP	36 VDC	2.66A	± 5%	85%	88%
MU096A042AP	42 VDC	2.25A	± 5%	85%	88%
MU096A048AP	48 VDC	2.0A	± 5%	85%	88%
MU096A054AP	54 VDC	1.77A	± 5%	86%	89%

Mechanical Outline (unit: mm)



LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Other Series

ED Driver Outdoor Use DALI Intelligent Series

ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

.ED Driver Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series

General
Power Supplie
- MF Series

SPI

.

Quick

- LED Driver
 General Series
 Outdoor Use
 H Series Class I
- LED Driver
 General Series
- LED Driver
 General Serie
 Outdoor Use

- Outdoor Use - Other Series

LED Driver - Outdoor Use - DALI Intelligent Serie

LED Driver - Intelligent Serie

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver - Intelligent Series



LED Driver
- Intelligent Series
- Other Series

Power Supplies - MF Series

SPD

MU100A Series - Constant Current Output & Dimming Control

Features

- Input voltage range: 90-305VAC
 High efficiency: 92% typical
 Active PFC: 0.99 typical
- Surge protection
- IP67 compliant
- Protections: OVP, SCP, OTP
- · Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL/CE
- Dimming control: 0 ~ 10VDC / PWM
- 5-year warranty



 $221\times67.5\times37mm$

Electrical Specifications

Input voltage range	90~305VAC	
Frequency	47~63Hz	
Power factor	0.99 at 110VAC; 0.96 at 220VAC (typical)	
Inrush current	65 A MAX (25℃, at 220VAC, cold start)	
Input current	1.3A MAX at 110VAC; 0.6A MAX at 220VAC	
Efficiency	92% (typical) at 220VAC maximum load	
Maximum power	100W	
Line regulation	±1%	
Load regulation	± 3%	
Leakage current	1mA MAX	
Protections	Over voltage, short circuit, over temperature	

Environmental Specifications

Operating temperature	-35℃ ~ +70℃	
Storage temperature	-40℃ ~ +85℃	
Maximum case temperature	90℃	
Humidity	5% ~ 95%RH	
Cooling method	Convection	
Isolation voltage	Input / output 3000VAC	
MTBF	300,000 hours full load at 25°C ambient	
Life time	50,000 hours at 50°C ambient	
Reference Dimension (L x W x H)	221 × 67.5 × 37(mm)	

CUL	UL8750,UL1012,CSA-C22.2 No. 107.1
CE	EN 61347-1, EN61347-2-13
Conducted emissions	FCC Part15 Class B / EN55015
Radiated emissions	FCC Part15 Class B / EN55015
Harmonic current emissions	EN61000-3-2
Voltage fluctuations and flicker	EN61000-3-3
Electrostatic discharge	EN61000-4-2
RFE field susceptibility	EN61000-4-3
Electrical fast transient	EN61000-4-4
Surge immunity test	EN61000-4-5
Conducted radio frequency	EN61000-4-6
Power frequency magnetic field test	EN61000-4-8
Voltage dips	EN61000-4-11
Electromagnetic immunity	EN61547

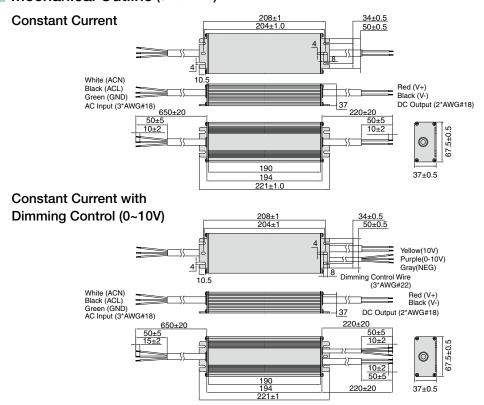
Model Specifications - Constant Current

Part Number	Output Current	Output Voltage	oltage Current Accuracy	Efficiency (typical)	
	Output Gurrent Output Voltage	Current Accuracy	110VAC	220VAC	
MU100A035AQ	350mA	172-286VDC	± 5%	90%	92%
MU100A045AQ	450mA	132-222VDC	± 5%	90%	92%
♠ MU100A070AQ	700mA	86-143VDC	± 5%	89%	91%
MU100A105AQ	1050mA	57-95VDC	± 5%	89%	91%
MU100A140AQ	1400mA	43-71VDC	± 5%	89%	91%
MU100A175AQ	1750mA	34-57VDC	± 5%	89%	91%
MU100A210AQ	2100mA	29-48VDC	± 5%	89%	91%
MU100A245AQ	2450mA	25-41VDC	± 5%	89%	91%
MU100A280AQ	2800mA	22-36VDC	± 5%	88%	90%
MU100A315AQ	3150mA	19-32VDC	± 5%	88%	90%
MU100A357AQ	3570mA	17-28VDC	± 5%	88%	90%
MU100A420AQ	4200mA	14-24VDC	± 5%	88%	90%

■ Model Specifications - Dimming Control (0~10V)

Part Number	Outrast Commant	Output Valtage	Command Assumance	Efficiency (typical)	
Part Number	Output Current	Output Voltage	Current Accuracy	110VAC	220VAC
MU100A035AQD	350mA	172-286VDC	± 5%	90%	92%
MU100A045AQD	450mA	132-222VDC	± 5%	90%	92%
MU100A070AQD	700mA	86-143VDC	± 5%	89%	91%
MU100A105AQD	1050mA	57-95VDC	± 5%	89%	91%
MU100A140AQD	1400mA	43-71VDC	± 5%	89%	91%
MU100A175AQD	1750mA	34-57VDC	± 5%	89%	91%
MU100A210AQD	2100mA	29-48VDC	± 5%	89%	91%
MU100A245AQD	2450mA	25-41VDC	± 5%	89%	91%
MU100A280AQD	2800mA	22-36VDC	± 5%	88%	90%
MU100A315AQD	3150mA	19-32VDC	± 5%	88%	90%
MU100A357AQD	3570mA	17-28VDC	± 5%	88%	90%
MU100A420AQD	4200mA	14-24VDC	± 5%	88%	90%

■ Mechanical Outline (unit: mm)



LED Driver
- General Ser
- Outdoor Us
- H Series Class

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver
Outdoor Use
DALI Intelligent Seri

ED Driver Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Series
- Other Series
General

- MF Series

Appendi

Quick Selection

LED Driver

- General Series

- Outdoor Use

- H Series Class I

- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- A Series

- General Series - Outdoor Use - Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Seri

LED Driver
- Intelligent Serie

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

SPD

MU100A Series - Constant Voltage Output

Features

Input voltage range: 90-305VAC
High efficiency: 93% typical
Active PFC: 0.99 typical

Surge protection

• IP67 compliant

• Protections: OVP, OCP, SCP, OTP

· Compliance to worldwide safety regulations for lighting

• Suitable for dry/damp locations

• CUL/CE

• 5-year warranty



 $221 \times 67.5 \times 37$ mm

Electrical Specifications

Input voltage range	90~305VAC	
Frequency	47~63Hz	
Power factor	0.99 at 110VAC; 0.95 at 220VAC (typical)	
Inrush current	65A MAX (25℃, at 220VAC, cold start)	
Input current	1.2A MAX at 110 VAC; 0.6A MAX at 220VAC	
Efficiency	93% (typical) at 220VAC maximum load	
Maximum power	100W	
Line regulation	±1%	
Load regulation	± 2%	
Leakage current	1mA MAX	
Protections	Over voltage, over current, short circuit, over temperature	

Environmental Specifications

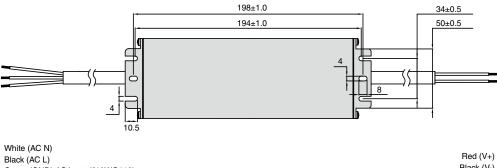
Operating temperature	-35℃ ~ +70℃	
Storage temperature	-40℃ ~ +85℃	
Maximum case temperature	90℃	
Humidity	5% ~ 95%RH	
Cooling method	Convection	
Isolation voltage	Input / output 3000VAC	
MTBF	300,000 hours full load at 25℃ ambient	
Life time	50,000 hours at 50°C ambient	
Reference dimension (L x W x H)	211 × 67.5 × 37 (mm)	

	UL8750,UL1012,CSA-C22.2 No. 107.1
	EN 61347-1, EN61347-2-13
emissions	FCC Part15 Class B / EN55015
nissions	FCC Part15 Class B / EN55015
urrent emissions	EN61000-3-2
tuations and flicker	EN61000-3-3
discharge	EN61000-4-2
sceptibility	EN61000-4-3
st transient	EN61000-4-4
nity test	EN61000-4-5
radio frequency	EN61000-4-6
ency magnetic field test	EN61000-4-8
3	EN61000-4-11
netic immunity	EN61547
st transient nity test radio frequency ency magnetic field test	EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-11

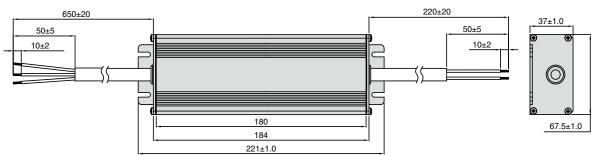
■ Model Specifications - constant voltage

Part Number	Output Voltage	MAX Output Current Voltage Ac	Voltage Acquirecy	Efficiency (typical)	
Part Number	Output voltage	MAX Output Current	Voltage Accuracy	110VAC	220VAC
MU100A012AP	12VDC	8.33A	± 5%	89%	91%
MU100A024AP	24VDC	4.17A	± 5%	90%	92%
MU100A036AP	36VDC	2.77A	± 5%	90%	92%
MU100A042AP	42VDC	2.38A	± 5%	90%	92%
MU100A048AP	48VDC	2.08A	± 5%	90%	92%
MU100A054AP	54VDC	1.85A	± 5%	90%	92%
MU100A081AP	81VDC	1.23A	± 5%	91%	93%
MU100A105AP	105VDC	0.95A	± 5%	91%	93%

■ Mechanical Outline (unit: mm)







LED Driver

- General Series

- Outdoor Use

- H Series Class I

- H Series Class II

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Serie

ED Driver ntelligent Series 80W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver ntelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series

General
Power Supplie

SPI

.

Quick

LED Driver - General Series - Outdoor Use - H Series Class I

- LED Driver
 General Series
 Outdoor Use
- LED Driver
 General Serie
 Outdoor Use
- General Serie - Outdoor Use - Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
 Intelligent Seri
- LED Driver
 Intelligent Serie
 40W Intelligent Serie
- LED Driver
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
- Power Supplies - MF Series

SPD

MU150A Series - Constant Voltage Output

Features

- Input voltage range: 90-305VAC
 High efficiency: 93% typical
 Active PFC: 0.99 typical
- Surge protection
- IP67 compliant
- Protections: OVP, OCP, SCP, OTP
- · Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL/CE
- 5-year warranty



205 × 86 × 43mm

Electrical Specifications

Input voltage range	90~305VAC	
Frequency	47~63Hz	
Power factor	0.99 at 110VAC; 0.96 at 220VAC (typical)	
Inrush current	65A MAX (25℃ at 220VAC, cold start)	
Input current	1.8A MAX at 110VAC; 0.9A MAX at 220VAC	
Efficiency	93% (typical) at 220VAC maximum load	
Maximum power	150W	
Line regulation	±1%	
Load regulation	± 2%	
Leakage current	1mA MAX	
Protections	Over voltage, over current, short circuit, over temperature	

Environmental Specifications

Operating temperature	-35℃ ~ +70℃	
Storage temperature	-40℃ ~ +85℃	
Maximum case temperature	90℃	
Humidity	5% ~ 95%RH	
Cooling method	convection	
Isolation voltage	Input / output 3000VAC	
MTBF	300,000 hours full load at 25°C ambient	
Life time	50,000 hours at 50℃ ambient	
Reference dimension (L x W x H)	205 × 86 × 43 (mm)	

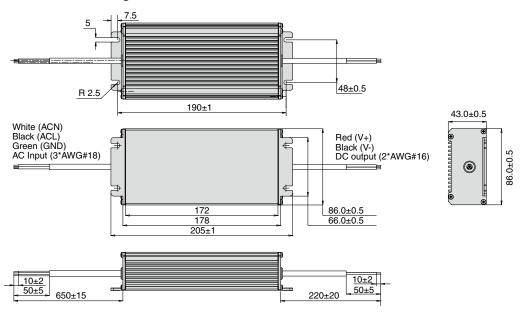
CUL	UL8750,UL1012,CSA-C22.2 No. 107.1	
CE	EN 61347-1, EN61347-2-13	
Conducted emissions	FCC Part15 Class B / EN55015	
Radiated emissions	FCC Part15 Class B / EN55015	
Harmonic current emissions	EN61000-3-2	
Voltage fluctuations and flicker	EN61000-3-3	
Electrostatic discharge	EN61000-4-2	
RFE field susceptibility	EN61000-4-3	
Electrical fast transient	EN61000-4-4	
Surge immunity test	EN61000-4-5	
Conducted radio frequency	EN61000-4-6	
Power frequency magnetic field test	EN61000-4-8	
Voltage dips	EN61000-4-11	
Electromagnetic immunity	EN61547	

Model Specifications - Constant Voltage

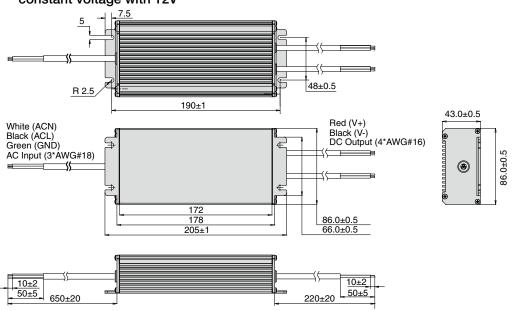
Part Number	Output Voltage	MAX Output Current	AX Output Current Voltage Accuracy Efficiency (type		y (typical)
Part Number	Output voltage	WAX Output Current Voltage Accuracy		110VAC	220VAC
MU150A012AP	12VDC	12.50A	± 5%	90%	92%
MU150A024AP	24VDC	6.25A	± 5%	91%	93%
MU150A036AP	36VDC	4.17A	± 5%	91%	93%
MU150A042AP	42VDC	3.57A	± 5%	91%	93%
MU150A048AP	48VDC	3.13A	± 5%	91%	93%
MU150A054AP	54VDC	2.78A	± 5%	91%	93%
MU150A081AP	81VDC	1.85A	± 5%	91%	93%
MU150A105AP	105VDC	1.42A	± 5%	91%	93%

Mechanical Outline (unit: mm)

Constanct Voltage



constant voltage with 12V



LED Driver
- General Serie
- Outdoor Use
- H Series Class I
- H Series Class II

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

ED Driver General Series Outdoor Use A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

ED Driver Outdoor Use DALI Intelligent Series

ED Driver ntelligent Series 30W Intelligent Series

LED Driver
Intelligent Series
40W Intelligent Series

ED Driver Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Series - Other Series

Power Supplie

SPD

.

Quick Selection

LED Driver - General Series - Outdoor Use - H Series Class I

LED Driver - General Series

LED Driver - General Serie - Outdoor Use

- General Serie - Outdoor Use - Other Series

LED Driver - Outdoor Use - DALI Intelligent Seri

LED Driver - Intelligent Serie:

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

- MF Series

MU200A Series - Constant Voltage Output

Features

Input voltage range: 90-305 VAC
High efficiency: 93% typical
Active PFC: 0.99 typical

• Surge protection

• IP67 compliant

• Protection: OVP, OCP, SCP, OTP

- · Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL/CE
- 5-year warranty



223 × 95 × 46mm

Electrical Specifications

Input voltage range	90~305 VAC		
Frequency	47~63 Hz		
Power factor	0.99 at 110 VAC 0.95 at 220 VAC (typical)		
Inrush current	65A MAX (25℃, at 220VAC, cold start)		
Input current	2.3A MAX at 110 VAC 1.1A MAX at 220 VAC		
Efficiency	93% (typical) at 220 VAC maximum load		
Maximum power	200W		
Line regulation	±1%		
Load regulation	± 2%		
Leakage current	1mA MAX		
Protection	over voltage, over current, short circuit: auto recovery; over temperature		

Environmental Specifications

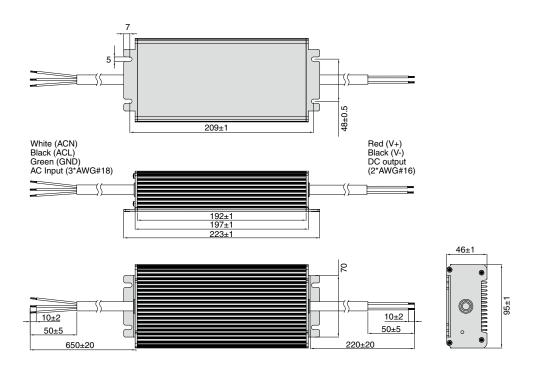
Operating temperature	-35℃ ~ +70℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	90℃
Humidity	5% ~ 95%RH
Cooling method	convection
Isolation voltage	input / output 3000VAC
MTBF	300,000 hours full load at 25℃ ambient
Life time	100,000 hours at 25℃ ambient
Dimension (L x W x H)	223 × 95 × 46 (mm)

CUL	UL 8750, UL1012
CE	EN 61347-1, EN61347-2-13
Conducted emissions	FCC Level B / EN55015
Radiated emissions	FCC Level B / EN55015
Harmonic current emissions	EN61000-3-2
Voltage fluctuations and flicker	EN61000-3-3
Electrostatic discharge	EN61000-4-2
RFE field susceptibility	EN61000-4-3
Electrical fast transient	EN61000-4-4
Surge immunity test	EN61000-4-5
Conducted radio frequency	EN61000-4-6
Power frequency magnetic field test	EN61000-4-8
Voltage dips	EN61000-4-11
Electromagnetic immunity	EN61547

■ Model Specifications - constant voltage

part number	output voltage	MAX output current	voltage accuracy efficiency (typic		y (typical)
part number	Output voitage	WAX output current	voitage accuracy	110VAC	220VAC
MU200A012AP	12 VDC	16.67A	± 5%	90.0%	92.0%
MU200A024AP	24 VDC	8.33 A	± 5%	90.0%	92.0%
MU200A036AP	36 VDC	5.56 A	± 5%	90.5%	92.5%
MU200A042AP	42 VDC	4.76 A	± 5%	90.5%	92.5%
MU200A048AP	48 VDC	4.17 A	± 5%	90.5%	92.5%
MU200A050AP	50 VDC	4.00 A	± 5%	90.5%	92.5%
MU200A052AP	52 VDC	3.84 A	± 5%	91.0%	93.0%
MU200A054AP	54 VDC	3.70 A	± 5%	91.0%	93.0%
MU200A081AP	81 VDC	2.47 A	± 5%	91.0%	93.0%
MU200A105AP	105VDC	1.9 A	± 5%	91.0%	93.0%

Mechanical Outline (unit: mm)



LED Driver
- General Serie
- Outdoor Use
- H Series Class I

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver - Outdoor Use - DALI Intelligent Serie

> D Driver ntelligent Series 0W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

.ED Driver Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series

General
Power Supplie
- MF Series

SPI

Appendi



General other series - MT240H100AQ_0-10V

Features

- Input voltage range: 249~ 528 VAC
- Built-in active PFC function: 0.99 typical
- High efficiency: 90% typical
- IP67 design for outdoor installations
- Dimming function: 0 ~ 10VDC/ 10V PWM
- Full protection function: OVP, OTP, SCP, OCP
- Suitable for dry/damp environment
- FCC Part 15 Class B
- 5-year warranty



223 × 95 × 46mm

Electrical Specifications

Voltage Range	
Frequency Range	47~63 Hz
Power factor	0.99Type(277VAC); 0.95Type(480VAC)
AC Current	< 1.0A at 277VAC input
Inrush Current	< 65A at 480VAC input 25℃ cold start
Leakage Current	< 0.75mA at 480VAC input
Line regulation	± 5%
Load regulation	± 5%
Turn-on Delay Time	<1.5s at 277VAC~480VAC,full load
Protection	Over Voltage Protection,Over Current Protection,Short Circuit Protection,Over Temperature Protection

Environmental Specifications

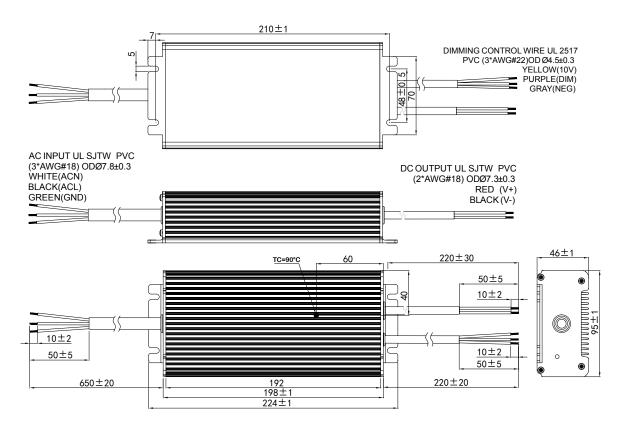
Operating temperature	-40 ~+70℃
Working Humidity	20% ~ 95% RH
Storage Temp., Humidity	-40~+85℃ ,10%~95% RH
Vibration	2G (10 ~ 500HZ), 12 min/circle, period for 72 min each along X, Y, Z axes
MTBF	300,000 hours, measured at full load, 25° C ambient temperature
Dimension	223 x 95 x 46 (mm) (LxWxH)

Safety Standard	UL8750,CSA-C22.2 No. 107.1
Withstand Voltage	I/P-O/P : 3.75KVAC , I/P-FG : 2KVAC, O/P-FG :1.5KVAC
Isolation Resistance	I/P-O/P:100M Ohms/500VDC/25°C/70%RH
EMC Emission	FCC Part 15 Class B
EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547;Surge Immunity Test:AC line to AC line ± 4KV,AC line to earth: ± 6kV

Model Specifications

Part Number	Output Current	Output Voltage Range Current		Efficiency (Typ)		
	Output Current	Output voltage hange	Accuracy 277VAC 480VAC		480VAC	
MT240H100AQ_0-10V	1000mA	120V~240V	± 5%	92%	93%	

■ Mechanical Outline (unit: mm)



Quick

LED Driver - General Series - Outdoor Use - H Series Class I

- H Series Class II
 H Series Class II

 LED Driver
- Half Potted Serie

 LED Driver

 General Serie
- LED Driver
 General Series
 Outdoor Use

LED Driver - Outdoor Use - DALI Intelligent Ser

LED Driver - Intelligent Serie

LED Driver - Intelligent Series - 40W Intelligent Series

LED Driver - Intelligent Serie



LED Driver

^

General other series - MU240A100AQD Class II Series

Features

Input voltage range: 90-305 VAC
High efficiency: 93% typical
Active PFC: 0.96 typical

• IP67 compliant

• Dimming function: 0 ~ 10V dimming

• Full protection function: OVP, OLP, SCP, OTP

UL/CUL, CE5-year warranty



223 × 95 × 46mm

Electrical Specifications

Voltage Range	90 ~ 305 VAC		
Frequency Range	47~63 Hz		
Power factor	0.98(Min.), 0.99(Typ.) at 110Vac input, 0.97(Min.), 0.98(Typ.) at 220Vac input, 100% load		
AC Current	<2.6A MAX at 110Vac, 1.3A MAX at 220Vac		
Inrush Current	<65A MAX 25℃, at 230Vac, cold start		
Leakage Current	<0.25mA MAX at 230Vac 50Hz input		
Line regulation	±1%		
Load regulation	± 3%		
Turn-on Delay Time	<3.0s, measured at 120Vac input; 1.5s, measured at 220Vac input		
Protection	Over Voltage Protection, Short Circuit Protection, Over Load Protection, Over Temperature		

Environmental Specifications

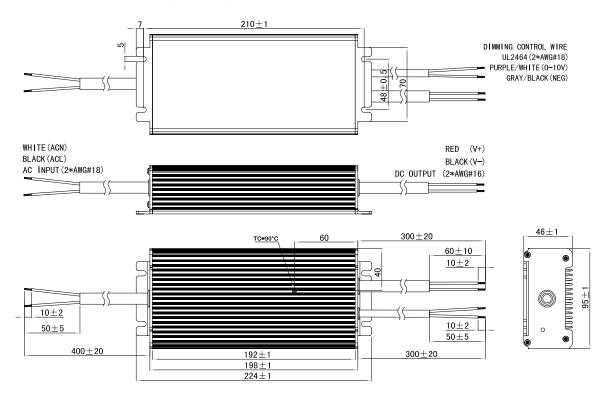
O	40% .00%
Operating temperature	-40℃ ~ +60℃
Working Humidity	5%~95%RH
Storage Temp., Humidity	-40~+85℃, 5%-%RH
Vibration	2G,5G, 1 octave/min, period for 1h each along X、Y、Z axes
MTBF	300,000 hours, measured at full load, 25°C ambient temperature
Dimension	223x95x46 mm (LxWxH)

Safety Standard	UL8750, UL1012, CSA-C22.2 No. 107.1,EN61347-1,EN61347-2-13
Withstand Voltage	I/P-O/P:3kVAC, I/P-FG:1.5kVAC, O/P-FG:1.5kVAC
Isolation Resistance	I/P-O/P, I/P-FG:100M Ohms/500VDC/25°C/70%RH
EMC Emission	EN55015/FCC Part 15 Class B
EMC Immunity	EN61000-4-2,5 (Surge: L,N-FG ± 4kV, L-N ± 2kV)

Model Specifications

Part Number	Output Voltage Range	Rated Current	Rated Power	Current Accuracy	Efficiency (Typ)	
					110VAC	220VAC
MU240A100AQD	168-240VDC	1000mA	240W	± 5%	90%	93%

■ Mechanical Outline (unit: mm)



Number System

Quick Selection

LED Driver
- General Series
- Outdoor Use
- H Series Class I
- H Series Class II

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Other Series

ED Driver
Outdoor Use
DALI Intelligent Series

ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver Intelligent Series 60W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series

General
Power Supplies
- MF Series

SPI

Appendi

Quick Selection

LED Driver - General Series - Outdoor Use - H Series Class I

- LED Driver
 General Series
 Outdoor Use
- LED Driver
 General Series
 Outdoor Use
- General Series
 Outdoor Use
 Other Series

- Outdoor Use - DALI Intelligent Ser

LED Driver

LED Driver - Intelligent Series - 40W Intelligent Series

LED Driver - Intelligent Serie



LED Driver

General

SPD

General other series - MU320HxxxAQ_CP / Constant Power

Features

- Input voltage range: 90-305 VAC
- Built-in active PFC function: 0.99 typical
- High efficiency: 94% typical
- IP67 design for indoor or outdoor installations
- Dimming function: Constant current/ 0 ~ 10V dimming/ clock dimming (CLK)/ PWM dimming
- Full protection function: OVP, OTP, SCP
- Compliance to worldwide safety regulations for lighting
- C-UL in process
- 5-year warranty



251x90x44.5 mm

Electrical Specifications

Voltage Range	90 ~ 305 VAC			
Frequency Range	47~63 Hz			
Power factor	0.98(Min.), 0.99(Typ.) at 110Vac input, 0.95(Min.), 0.98(Typ.) at 220Vac input, 100% load			
THD	8%(Typ.) at 110Vac input, 10%(Typ.) at 220Vac input, 100% load			
AC Current	4A MAX at 100Vac, 1.7A MAX at 220Vac			
Inrush Current	65A MAX (25℃, at 230Vac, cold start)			
Leakage Current	0.75mA MAX at 277Vac 50Hz input			
Line regulation	±1%			
Load regulation	± 3%			
Turn-on Delay Time	1.0s, measured at 120Vac input; 0.5s, measured at 220Vac input			
Protection Over Voltage Protection, Short Circuit Protection, Over Temperature				

■ Environmental Specifications

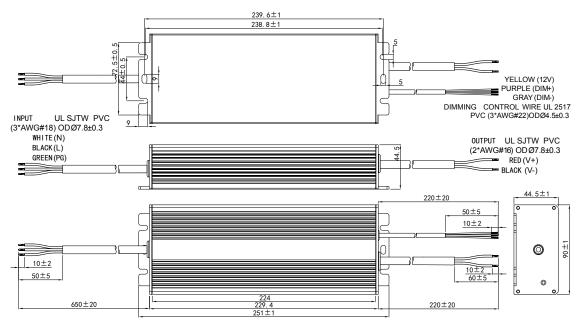
Operating temperature	-40∼+70 $^{\circ}$, refer to the derating curve for detail			
Operating Humidity	20~95%RH, non-condensing			
Storage Temp., Humidity	-40~+85℃, 10%-95%RH			
Vibration	5-55Hz, 2G 5min/cycle, period for 30min each along X、Y、Z axes			
MTBF	300,000 hours, measured at full load, 25°C ambient temperature, MIL-HDBK-217F			
Dimension	251x90x44.5 mm (LxWxH)			

•	•
Safety Standard	UL8750, UL1012, CAN/CSA-C22.2No.107.1-01, EN61347-1, EN61347-2-13
Withstand Voltage	I/P-O/P:3.75kVAC, I/P-FG:1.5kV, O/P-FG:1.5kV
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC/25°C/70%RH
EMC Emission	EN55015/FCC Part 15 Class B, EN61000-3-2 Class C, EN61000-3-3
EMC Immunity	EN61000-4-2.3.4.5.6.8.11, EN61547 (Surge: L.N-FG 6kV, L-N 4kV)

Model Specifications

Part Number	rt Number Output Voltage Range Ra	Rated Current Rated Power	Pated Power	Rated Voltage	Current	Efficiency (Typ)	
rait Number			Range	Accuracy	110VAC	220VAC	
MU320H105AQ_CP	183-457VDC	700-1050mA	320(Max.)	305-457VDC	± 5%	91%	94%
MU320H150AQ_CP	128-320VDC	1000-1500mA	320(Max.)	214-320VDC	± 5%	91%	94%
MU320H210AQ_CP	91-288VDC	1400-2100mA	320(Max.)	153-288VDC	± 5%	90%	93%
MU320H300AQ_CP	64-160VDC	2000-3000mA	320(Max.)	107-160VDC	± 5%	90%	93%
MU320H420AQ_CP	46-114VDC	2800-4200mA	320(Max.)	76-114VDC	± 5%	90%	93%
MU320H600AQ_CP	32-80VDC	4000-6000mA	320(Max.)	53-80VDC	± 5%	90%	93%
MU320H900AQ_CP	22-54VDC	5950-9000mA	320(Max.)	35.5-54VDC	± 5%	90%	93%
MU320H1330AQ_CP	14-36VDC	8900-13300mA	320(Max.)	24-36VDC	± 5%	90%	93%

■ Mechanical Outline (unit: mm)



LED Driver

- General Serie

- Outdoor Use

- H Series Class I

- H Series Class II

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Other Series

ED Driver Outdoor Use DALI Intelligent Series

ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver
Intelligent Series
50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series

General
Power Supplie

SPI

.

lumbering system

Quick Selection

- General Series - Outdoor Use - H Series Class I

- General Series
 Outdoor Use
 Half Potted Series
- General Serie - Outdoor Use - A Series
- LED Driver
 General Serie
 Outdoor Use
 Other Series
- LED Driver
 Outdoor Use

LED Driver - Intelligent Serie

LED Driver - Intelligent Series - 40W Intelligent Series

LED Driver
- Intelligent Series



LED Driver
- Intelligent Serie
- Other Series

General
Power Supplies

SPD

DALI Intelligent Series - MU050AxxxAQ_DALI / STB

Features

- Input voltage: 90~ 305VAC
- Built-in active PFC function: 0.99 typical
- High efficency: 87% typical
- IP67 design for indoor or outdoor installations
- Support DALI dimming function, follow DALI IEC62386 Standard with turn-off function
- Full protection function: OVP, OTP, SCP, OCP
- · Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- 5 Years Warranty



203 x 63.5 x 40 mm

Electrical Specifications

Voltage Range	90 ~ 305 VAC
Frequency Range	47~63 Hz
Power Factor	0.99(typ.) at 110Vac input, 0.95(typ.) at 220Vac input
AC Current	0.7A at 100Vac input, 0.35A at 220Vac input
Inrush Current	15A at 230Vac input 25℃ cold start
Leakage Current	0.75mA at 277Vac 50Hz input
Line Regulation	± 3%
Load Regulation	±3%
Setup, Rise Time	3s, measured at 110Vac input; 1.5s, measured at 220Vac input
Hold Up Time	I
Protection	Over Voltage Protection, Short Circuit Protection, Over Temperature Protection, Over Current Protection

Environmental Specifications

Working Temp.	-40~+70℃
Working Humidity	20%~95%RH
Storage Temp., Humidity	-40~+80℃, 10%-95%RH
Vibration	10~500Hz, 5G 12min/cycle, period for 72min each along X、Y、Z axes
MTBF	300,000 hours, measured at full load, 25°C ambient temperature MIL-HDBK-217F(25°C)
Dimension	203 x 63.5 x 40 mm (LxWxH)

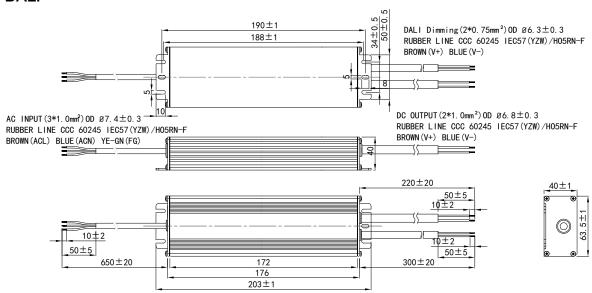
Safety Standard	UL8750, UL1012, CSA-C22.2 No. 107.1, EN61347-1, EN61347-2-13
Withstand Voltage	I/P-O/P:3.75KVac, I/P-FG:1.875KVac, O/P-FG:1.5KV, O/P-DIMMING: 1.875KV;
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500Vdc/25°C/70%RH
EMC Emission	EN55015/FCC Part 15 Class B, EN61000-3-2 Class C, EN61000-3-3
EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547 (Surge: L-N 2KV, L/N-Earth 4KV)

Model Specifications

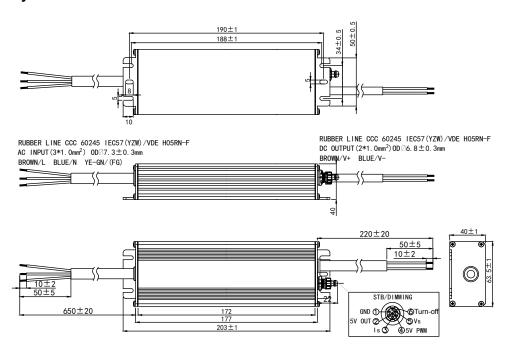
Model		DC	Rated	Rated	Voltage	Current	Efficiend	cy (Typ)
		Voltage	Current	Power	Range	Accuracy	110VAC	220VAC
MU050A035AQ_DALI	MU050A035AQ_STB	142V	350mA	49.7V	85~142V	5%	86%	87%
MU050A070AQ_DALI	MU050A070AQ_STB	71V	700mA	49.7V	44~71V	5%	86%	87%

Mechanical Outline (unit: mm)

DALI



Standby



lumbering ystem

Quick Selection

- LED Driver
 General Series
 Outdoor Use
 H Series Class I
- General Series
 Outdoor Use
- LED Driver
 General Series
 Outdoor Use
 A Series
- LED Driver
 General Series
 Outdoor Use
 Other Series
- LED Driver
 Outdoor Use

LED Driver - Intelligent Serie - 30W Intelligent Serie

LED Driver - Intelligent Series - 40W Intelligent Series

LED Driver
- Intelligent Serie

- LED Driver
 Intelligent Series
- LED Driver
- General
- Power Supplies

SPD

Appendix

DALI Intelligent Series - MU060AxxxAQ_DALI / STB

Features

- Input voltage: 90~ 305VAC
- Built-in active PFC function: 0.99 typical
- High efficency: 87% typical
- IP67 design for indoor or outdoor installations
- Support DALI dimming function, follow DALI IEC62386 Standard with turn-off function
- Full protection function: OVP, OTP, SCP, OCP
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- 5 Years Warranty



203 x 63.5 x 40 mm

Electrical Specifications

Voltage Range	90 ~ 305 VAC
Frequency Range	47~63 Hz
Power Factor	0.99 Typical (>0.90, at 100~277Vac input, with 80%~100% load conditions)
THD	< 20%, at 100 ~ 277Vac input, with 80% ~ 100% load conditions
AC Current	0.75A at 100Vac input, 0.38A at 220Vac input
Inrush Current	50A at 230Vac input 25℃ cold start
Leakage Current	0.75mA at 277Vac 50Hz input
Line Regulation	±3%
Load Regulation	±3%
Setup, Rise Time	3s, measured at 110Vac input; 1.5s, measured at 220Vac input
Hold Up Time	10ms at 220Vac 100% load
Protection	Over Voltage Protection, Short Circuit Protection, Over Temperature Protection, Over Current Protection

Environmental Specifications

Working Temp.	-40~+70℃
Working Humidity	20%~95%RH, non-condensing
Storage Temp., Humidity	-40~+80℃, 10%-95%RH
Vibration	10~500Hz, 5G 12min/cycle, period for 72min each along X、Y、Z axes
MTBF	300,000 hours, measured at full load, 25°C ambient temperature MIL-HDBK-217F(25°C)
Dimension	203 x 63.5 x 40 mm (LxWxH)

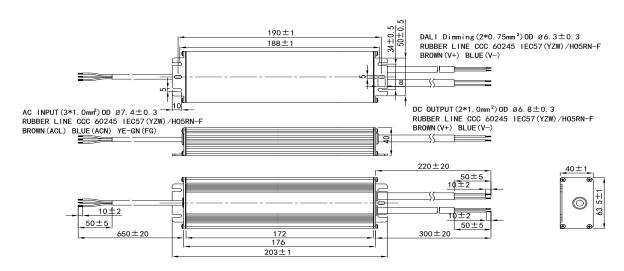
Safety Standard	UL8750, UL1012, CSA-C22.2 No. 107.1, EN61347-1, EN61347-2-13
Withstand Voltage	I/P-O/P:3.75KVac, I/P-FG:1.875KVac, O/P-FG:1.5KV, O/P-DIMMING: 1.875KV;
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500Vdc/25℃/70%RH
EMC Emission	EN55015/FCC Part 15 Class B, EN61000-3-2 Class C, EN61000-3-3
EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547 (Surge: L-N 2KV, L/N-Earth 4KV)

Model Specifications

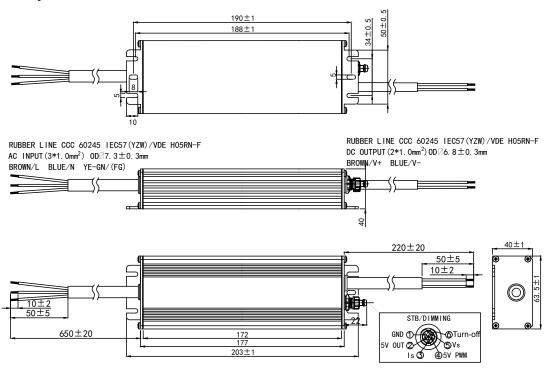
Model		DC	Rated	Rated	Voltage	Current	Efficien	cy (Typ)
		Voltage	Current	Power	Range	Accuracy	110VAC	220VAC
MU060A070AQ_DALI	MU060A070AQ_STB	86V	700mA	60V	43~86V	5%	86%	88%
MU060A150AQ_DALI	MU060A150AQ_STB	40V	1500mA	60V	24~40V	5%	85%	87%

■ Mechanical Outline (unit: mm)

DALI



Standby



LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Series

ED Driver
Intelligent Series
30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

Power Supplie - MF Series

SPD

Append

lumbering system

Quick Selection

- General Series - Outdoor Use - H Series Class I

- General Series
 Outdoor Use
 Half Potted Series
- General Serie - Outdoor Use
- General Series
 Outdoor Use
 Other Series
- LED Driver
 Outdoor Use
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Serie
 40W Intelligent Serie
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 96W Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
- General Power Supplies

SPD

Appendix

DALI Intelligent Series - MU084AxxxAQ_DALI / STB

Features

- Input voltage: 90~ 305VAC
- Built-in active PFC function: 0.99 typical
- High efficiency: 88% typical
- IP67 design for indoor or outdoor installations
- Support DALI dimming function, follow DALI IEC62386 Standard with turn-off function
- Full protection function: OVP, OTP, SCP, OVP
- · Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- 5 Years Warranty



241 x 67.5 x 37 mm

Electrical Specifications

Voltage Range	90 ~ 305 VAC
Frequency Range	47~63 Hz
Power Factor	0.99 Typical (>0.90, at 100~277Vac input, with 80%~100% load conditions)
THD	< 20%, at 100 ~ 277Vac input, with 80% ~ 100% load conditions
AC Current	0.75A at 110Vac input, 0.38A at 220Vac input
Inrush Current	50A at 230Vac input 25℃ cold start
Leakage Current	1mA at 277Vac 60Hz input
Line Regulation	±1%
Load Regulation	±3%
Setup, Rise Time	3s, measured at 110Vac input; 1.5s, measured at 220Vac input
Hold Up Time	10ms at 220Vac 100% load
Protection	Over Voltage Protection, Short Circuit Protection, Over Temperature Protection, Over Current Protection

Environmental Specifications

Working Temp.	-40~+70℃
Working Humidity	20%~95%RH, non-condensing
Storage Temp., Humidity	-40~+80℃, 10%-95%RH
Vibration	10~500Hz, 5G 12min/cycle, period for 72min each along X、Y、Z axes
MTBF	300,000 hours, measured at full load, 25°C ambient temperature MIL-HDBK-217F(25°C)
Dimension	241 x 67.5 x 37 mm (LxWxH)

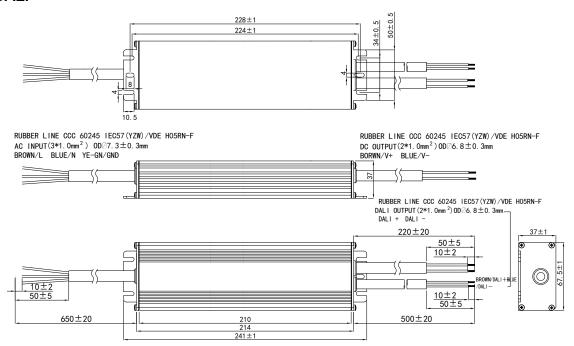
Safety Standard	UL8750, UL1012, CSA-C22.2 No. 107.1, EN61347-1, EN61347-2-13
Withstand Voltage	I/P-O/P:3.75KVac, I/P-FG:1.875KVac, O/P-FG:1.5KV, O/P-DIMMING: 1.875KV;
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500Vdc/25℃/70%RH
EMC Emission	EN55015/FCC Part 15 Class B, EN61000-3-2 Class C, EN61000-3-3
EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547 (Surge: L-N 2KV, L/N-Earth 4KV)

Model Specifications

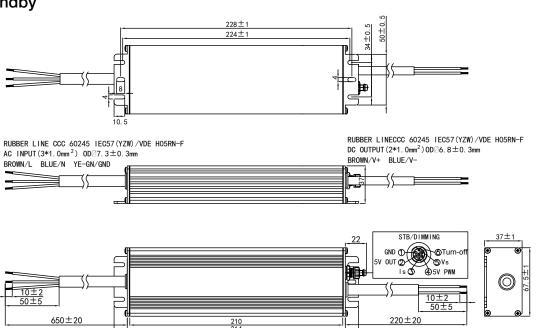
Model		DC	Rated	Rated	Voltage	Current	Efficien	cy (Typ)
		Voltage	Current	Power	Range	Accuracy	110VAC	220VAC
MU084A035AQ_DALI	MU084A035AQ_STB	240V	350mA	84V	120~240V	5%	86%	88%

■ Mechanical Outline (unit: mm)

DALI



Standby



241±1

lumbering System

Quick Selection

LED Driver - General Series - Outdoor Use - H Series Class I

- General Series
 Outdoor Use
- LED Driver
 General Serie
 Outdoor Use
- General Serie - Outdoor Use - Other Series
- LED Driver
 Outdoor Use
- LED Driver
 Intelligent Serie
 30W Intelligent Serie
- LED Driver
 Intelligent Serie
 40W Intelligent Serie
- LED Driver
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Serie
 Other Series
- General
 Power Supplies

SPD

Appendix

DALI Intelligent Series - MU100AxxxAQ_DALI / STB

Features

- Input voltage: 90~ 305VAC
- Built-in active PFC function: 0.99 typical
- High efficency: 88% typical
- IP67 design for indoor or outdoor installations
- Support DALI dimming function, follow DALI IEC62386 Standard with turn-off function
- Full protection function: OVP, OTP, SCP, OCP
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- 5 Years Warranty



241 x 67.5 x 37 mm

Electrical Specifications

Voltage Range	90 ~ 305 VAC
Frequency Range	47~63 Hz
Power Factor	0.99 Typical (>0.90, at 100~277Vac input, with 80%~100% load conditions)
THD	< 20%, at 100 ~ 277Vac input, with 80% ~ 100% load conditions
AC Current	1.3A at 110Vac input; 0.65A at 220Vac input
Inrush Current	50A at 230Vac input 25℃ cold start
Leakage Current	1mA at 277Vac 60Hz input
Line Regulation	±1%
Load Regulation	±3%
Setup, Rise Time	3s, measured at 110Vac input; 1.5s, measured at 220Vac input
Hold Up Time	10ms at 220Vac 100% load
Protection	Over Voltage Protection, Short Circuit Protection, Over Temperature Protection, Over Current Protection

Environmental Specifications

Working Temp.	-40~+70℃
Working Humidity	20%~95%RH, non-condensing
Storage Temp., Humidity	-40~+80℃, 10%-95%RH
Vibration	10~500Hz, 5G 12min/cycle, period for 72min each along X、Y、Z axes
MTBF	300,000 hours, measured at full load, 25℃ ambient temperature MIL-HDBK-217F(25℃)
Dimension	241 x 67.5 x 37 mm (LxWxH)

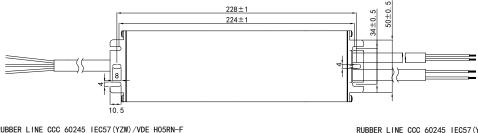
Safety Standard	UL8750, UL1012, CSA-C22.2 No. 107.1, EN61347-1, EN61347-2-13
Withstand Voltage	I/P-O/P:3.75KVac, I/P-FG:1.875KVac, O/P-FG:1.5KV, O/P-DIMMING: 1.875KV;
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500Vdc/25℃/70%RH
EMC Emission	EN55015/FCC Part 15 Class B, EN61000-3-2 Class C, EN61000-3-3
EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547 (Surge: L-N 2KV, L/N-Earth 4KV)

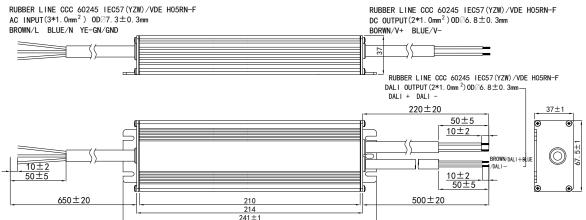
Model Specifications

Model		DC Voltage Rated Current F	Datad Dawer	Valtage Denge	Current	Efficiency (Typ)		
		DC voltage hated current F		nated Fower	Voltage Range	Accuracy	110VAC	220VAC
MU100A030AQ_DALI	MU100A030AQ_STB	343V	300mA	103W	205~343V	5%	86%	88%
MU100A035AQ_DALI	MU100A035AQ_STB	286V	350mA	100W	143~286V	5%	86%	88%
MU100A070AQ_DALI	MU100A070AQ_STB	143V	700mA	100W	84~143V	5%	86%	88%
MU100A097AQ_DALI	MU100A097AQ_STB	105V	970mA	102W	84~105V	5%	86%	88%

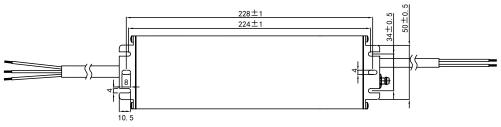
■ Mechanical Outline (unit: mm)

DALI

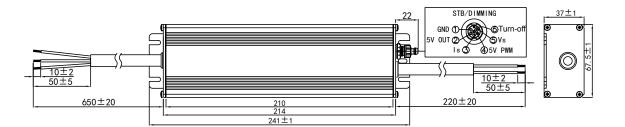




Standby







Numbe Syster

> Quick Selection

LED Driver
- General Series
- Outdoor Use
- H Series Class I
- H Series Class II

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Series

ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver Intelligent Series 50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

Power Supplie - MF Series

SP

Appendi

Numbering System

Quick

- LED Driver
 General Series
 Outdoor Use
 H Series Class I
- LED Driver
 General Series
 Outdoor Use
- LED Driver
 General Series
 Outdoor Use
- LED Driver
 General Series
 Outdoor Use
- LED Driver
 Outdoor Use
- LED Driver
 Intelligent Serie
 30W Intelligent Ser
- LED Driver
 Intelligent Serie
 40W Intelligent Serie
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
- General Power Supplies
- MF Series

3FD

Appendix

DALI Intelligent Series - MU150AXXXAQ_DALI / STB

Features

- Input voltage: 90~ 305VAC
- Built-in active PFC function: 0.99 typical
- High efficency: 90% typical
- IP67 design for indoor or outdoor installations
- Support DALI dimming function, follow DALI IEC62386 Standard with turn-off function
- Full protection function: OVP, OTP, SCP, OCP
- · Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- 5 Years Warranty



232 x 86 x 43 mm

Electrical Specifications

Voltage Range	90 ~ 305 VAC
Frequency Range	47~63 Hz
Power Factor	0.99 Typical (>0.90, at 100~277Vac input, with 80%~100% load conditions)
THD	< 20%, at 100 ~ 277Vac input, with 80% ~ 100% load conditions
AC Current	2A at 110Vac input; 1A at 220Vac input
Inrush Current	65A at 230Vac input 25℃ cold start
Leakage Current	1mA at 277Vac 60Hz input
Line Regulation	±1%
Load Regulation	± 3%
Setup, Rise Time	3s, measured at 110Vac input; 1.5s, measured at 220Vac input
Hold Up Time	10ms at 220Vac 100% load
Protection	Over Voltage Protection, Short Circuit Protection, Over Temperature Protection, Over Current Protection

Environmental Specifications

Working Temp.	-40~+70℃
Working Humidity	20%~95%RH, non-condensing
Storage Temp., Humidity	-40~+80℃, 10%-95%RH
Vibration	10~500Hz, 5G 12min/cycle, period for 72min each along X、Y、Z axes
MTBF	300,000 hours, measured at full load, 25°C ambient temperature MIL-HDBK-217F(25°C)
Dimension	232 x 86 x 43 mm (LxWxH)

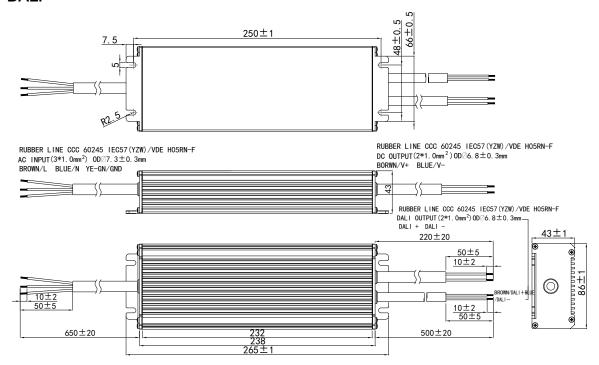
Safety Standard	UL8750, UL1012, CSA-C22.2 No. 107.1, EN61347-1, EN61347-2-13
Withstand Voltage	I/P-O/P:3.75KVac, I/P-FG:1.875KVac, O/P-FG:1.5KV, O/P-DIMMING: 1.875KV;
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500Vdc/25℃/70%RH
EMC Emission	EN55015/FCC Part 15 Class B, EN61000-3-2 Class C, EN61000-3-3
EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547 (Surge: L-N 2KV, L/N-Earth 4KV)

Model Specifications

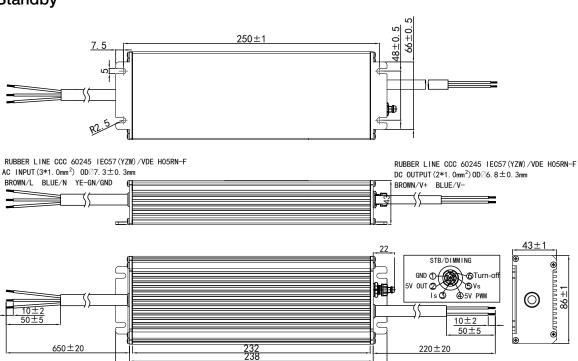
Model		DC Voltage Rated Current	Datad Dawer	Valtage Denge	Current	Efficien	cy (Typ)	
		DC voitage	Rated Current	Rated Current Rated Power N	voitage Hange	Accuracy	110VAC	220VAC
MU150A030AQ_DALI	MU150A030AQ_STB	428V	300mA	128.4W	256~428V	5%	88%	90%
MU150A070AQ_DALI	MU150A070AQ_STB	214V	700mA	149.8W	128~214V	5%	88%	90%
MU150A140AQ_DALI	MU150A140AQ_STB	105V	1400mA	150W	84~105V	5%	88%	90%

Mechanical Outline (unit: mm)

DALI



Standby



LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver - General Series - Outdoor Use - A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

ED Driver Outdoor Use DALI Intelligent Series

ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver Intelligent Series 50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Serie - Other Series

Power Supplie - MF Series

SPD

Append

lumbering System

Quick

LED Driver - General Series - Outdoor Use - H Series Class I

- General Series
 Outdoor Use
 Half Potted Series
- LED Driver
 General Serie
 Outdoor Use
- LED Driver
 General Series
 Outdoor Use
- LED Driver
 Outdoor Use

LED Driver - Intelligent Serie

LED Driver - Intelligent Series - 40W Intelligent Series

LED Driver



LED Driver

General

Power Supplies - MF Series

SPD

DALI Intelligent Series - MU200AXXXAQ_DALI / STB

Features

- Input voltage: 90~ 305VAC
- Built-in active PFC function: 0.99 typical
- High efficency: 92% typical
- IP67 design for indoor or outdoor installations
- Support DALI dimming function, follow DALI IEC62386 Standard with turn-off function
- Full protection function: OVP, OTP, SCP, OCP
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- 5 Years Warranty



232 x 95 x 46 mm

Electrical Specifications

Voltage Range	90 ~ 305 VAC
Frequency Range	47~63 Hz
Power Factor	0.99 Typical (>0.90, at 100~277Vac input, with 80%~100% load conditions)
THD	< 20%, at 100 ~ 277Vac input, with 80% ~ 100% load conditions
AC Current	2.4A at 110Vac input; 1.2A at 220Vac input
Inrush Current	65A at 230Vac input 25℃ cold start
Leakage Current	1mA at 277Vac 60Hz input
Line Regulation	±1%
Load Regulation	± 3%
Setup, Rise Time	3s, measured at 110Vac input; 1.5s, measured at 220Vac input
Hold Up Time	10ms at 220Vac 100% load
Protection	Over Voltage Protection, Short Circuit Protection, Over Temperature Protection, Over Current Protection

Environmental Specifications

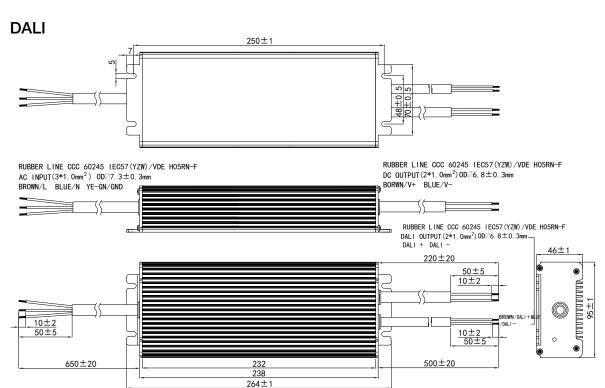
Working Temp.	-40~+70℃
Working Humidity	20%~95%RH, non-condensing
Storage Temp., Humidity	-40~+80℃, 10%-95%RH
Vibration	10~500Hz, 5G 12min/cycle, period for 72min each along X、Y、Z axes
MTBF	300,000 hours, measured at full load, 25°C ambient temperature MIL-HDBK-217F(25°C)
Dimension	232 x 95 x 46 mm (LxWxH)

Safety Standard	UL8750, UL1012, CSA-C22.2 No. 107.1, EN61347-1, EN61347-2-13
Withstand Voltage	I/P-O/P:3.75KVac, I/P-FG:1.875KVac, O/P-FG:1.5KV, O/P-DIMMING: 1.875KV;
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500Vdc/25°C/70%RH
EMC Emission	EN55015/FCC Part 15 Class B, EN61000-3-2 Class C, EN61000-3-3
EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547 (Surge: L-N 2KV, L/N-Earth 4KV)

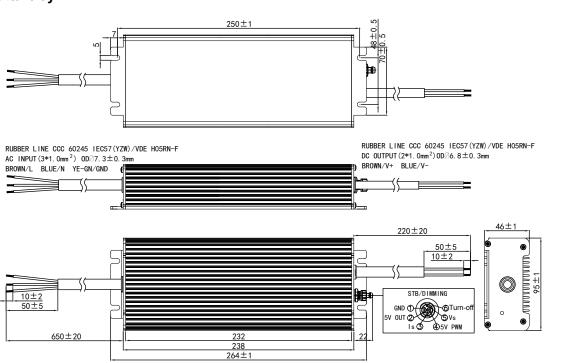
Model Specifications

Model		DC Voltage Bated Cur	Botod Current	nt Rated Power	Voltage Range	Current	Efficiency (Typ)	
		DC Voltage	nateu Current			Accuracy	110VAC	220VAC
MU200A035AQ_DALI	MU200A035AQ_STB	571V	350mA	200W	343~571V	5%	90%	92%
MU200A045AQ_DALI	MU200A045AQ_STB	467V	450mA	210W	266~467V	5%	90%	92%
MU200A055AQ_DALI	MU200A055AQ_STB	309V	550mA	170W	226~309V	5%	90%	92%
MU200A060AQ_DALI	MU200A060AQ_STB	333V	600mA	200W	226~333V	5%	90%	92%

Mechanical Outline (unit: mm)



Standby



Numb Syster

> Quick Selection

LED Driver
General Serie
Outdoor Use
H Series Class I
H Series Class II

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver - General Series - Outdoor Use

LED Driver
- General Series
- Outdoor Use

.ED Driver Outdoor Use DALI Intelligent Series

ED Driver
Intelligent Series
30W Intelligent Series

ED Driver Intelligent Series 40W Intelligent Series

ED Driver Intelligent Series 50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Serie - Other Series

Power Supplier - MF Series

SPD

Append

Numberin System

Quick Selection

- General Series - Outdoor Use - H Series Class I - H Series Class II

- General Series
 Outdoor Use
 Half Potted Series
- Outdoor Use - A Series
- LED Driver - Outdoor Use
- LED Driver
 Intelligent Seri

LED Driver - Intelligent Series - 40W Intelligent Serie

LED Driver



- LED Driver
 Intelligent Series
 Other Series
- General Power Supplies - MF Series
- MF Series

SPD

Adjusta Elicker-

- · Adjustable current range from 200mA to 1050mA
- Flicker-free dimming from 100%to0.1%,Logarithmic dimming curve

30W Intelligent Series - PU030A105AQI0 (DALI,1ch)

- DALI dimming control,1ch
- · High performance, high reliability
- CUL/CE

Features

• 5-year warranty



210 × 40.45 × 33.5mm

Electrical Specifications

Input voltage range	100~277VAC
Frequency	47~63Hz
Input current	0.4A(MAX)
Rated power	30W
Power factor	0.95 at 110VAC; 0.92 at 220VAC (typical)
Efficiency	87%(typical)
Output voltage range	2.5~50VDC
Output current range	200mA~1050mA (settable)
Protections	Over voltage, short circuit, over temperature: auto recovery

Environmental Specifications

Operating temperature	-20℃ ~ +60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Life Time	50,000 hours at 50°C ambient
Reference dimension (L x W x H)	210 × 40.45 × 33.5 (mm)

Safety & EMC Compliance

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347.1; EN61347-2-13
Conducted emissions	EN55015; FCC part15 ClassB;
Radiated emissions	EN55015; FCC part15 ClassB;
Harmonic current emission	IEC / EN61000-3-2 Class C
Electromagnetic immunity	IEC / EN61547

Function Description

• Adjustable current output:

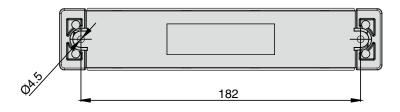
The current output can programmed in 1mA steps from 200 mA to 1050 mA.

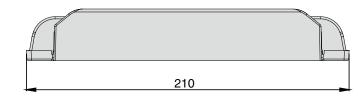
This programming can be done at the factory or in the customers place of business.

This permits optimization of the the current for the LED light engine and conformance to Energy Star Requirements.

- Resolution: 20 bit resolution Max
- Dimming: Supports a wide range of dimming from 0.1% to 100% with linear or Logarithmic dimming curve & flicker-free at all levels.
- High Efficiency: 87% (typical)
- Interface: LED Code
- Temperature Management: By connecting a 47k Ω NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.

■ Mechanical Outline (unit: mm)











30W Intelligent Series - MU030A105AQI0 (DALI,1ch)

Features

- · Adjustable current range from 200mA to 1050mA
- Flicker-free dimming from 100%to0.1%, Logarithmic dimming curve
- DALI dimming control,1ch
- · High performance, high reliability
- CUL/CE
- 5-year warranty



130 × 72 × 28mm

Electrical Specifications

Input voltage range	100~277VAC
Frequency	47~63Hz
Input current	0.4A(MAX)
Rated power	30W
Power factor	0.95 at 110VAC; 0.92 at 220VAC (typical)
Efficiency	87%(typical)
Output voltage range	2.5~50VDC
Output current range	200mA~1050mA (settable)
Protections	Over voltage, short circuit, over temperature: auto recovery

Environmental Specifications

Operating temperature	-20℃ ~ +60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Life Time	50,000 hours at 50°C ambient
Reference dimension (L x W x H)	130 × 72 × 28 (mm)

Safety & EMC Compliance

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347.1; EN61347-2-13
Conducted emissions	EN55015 ; FCC part15 ClassB;
Radiated emissions	EN55015 ; FCC part15 ClassB;
Harmonic current emission	IEC / EN61000-3-2 Class C
Electromagnetic immunity	IEC / EN61547

Function Description

• Adjustable current output:

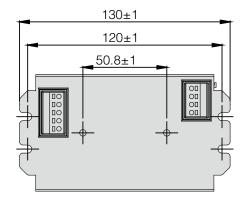
The current output can programmed in 1mA steps from 200 mA to 1050 mA.

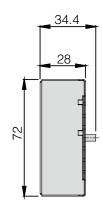
This programming can be done at the factory or in the customers place of business.

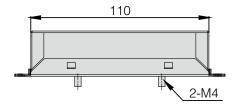
This permits optimization of the the current for the LED light engine and conformance to Energy Star Requirements.

- Resolution: 20 bit resolution Max
- Dimming: Supports a wide range of dimming from 0.1% to 100% with linear or Logarithmic dimming curve & flicker-free at all levels.
- High Efficiency: 87% (typical)
- Interface: LED Code
- Temperature Management: By connecting a 47k Ω NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.

■ Mechanical Outline (unit: mm)







Numberi System

Quick Selection

LED Driver
- General Ser

- H Series Class II LED Driver - General Series

- Outdoor Use - Half Potted Series LED Driver

- Outdoor Use - A Series LED Driver

General SeriesOutdoor UseOther Series

- Outdoor Use - DALI Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series

LED Driver
Intelligent Series

LED Driver
- Intelligent Series

LED Driver - Intelligent Serie

General
Power Supplie
- MF Series

SPF



- · Adjustable current range from 200mA to 1050mA
- Flicker-free dimming from 100%to0.1%,Logarithmic dimming curve

30W Intelligent Series - MU030A105AQI02 (DALI,1ch)

- DALI dimming control,1ch
- · High performance, high reliability
- CUL/CE

Features

• 5-year warranty



130 × 72 × 28mm

Electrical Specifications

Input voltage range	100~277VAC
Frequency	47~63Hz
Input current	0.4A(MAX)
Rated power	30W
Power factor	0.95 at 110VAC; 0.92 at 220VAC (typical)
Efficiency	87%(typical)
Output voltage range	2.5~50VDC
Output current range	200mA~1050mA (settable)
Protections	Over voltage, short circuit, over temperature: auto recovery

Environmental Specifications

Operating temperature	-20℃ ~ +60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Life Time	50,000 hours at 50°C ambient
Reference dimension (L x W x H)	130 × 72 × 28 (mm)

Safety & EMC Compliance

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347.1; EN61347-2-13
Conducted emissions	EN55015 ; FCC part15 ClassB;
Radiated emissions	EN55015 ; FCC part15 ClassB;
Harmonic current emission	IEC / EN61000-3-2 Class C
Electromagnetic immunity	IEC / EN61547

Function Description

• Adjustable current output:

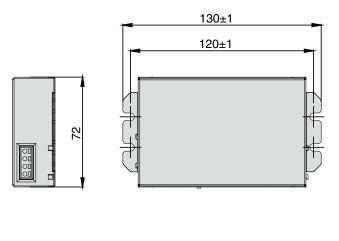
The current output can programmed in 1mA steps from 200 mA to 1050 mA.

This programming can be done at the factory or in the customers place of business.

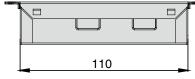
This permits optimization of the the current for the LED light engine and conformance to Energy Star Requirements.

- Resolution: 20 bit resolution Max
- Dimming: Supports a wide range of dimming from 0.1% to 100% with linear or Logarithmic dimming curve & flicker-free at all levels.
- High Efficiency: 87% (typical)
- Interface: LED Code
- Temperature Management: By connecting a 47k Ω NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.

Mechanical Outline (unit: mm)









30W Intelligent Series - PU030A105AQI3 (0-10V,1ch)

Features

- · Adjustable current range from 200mA to 1050mA
- Flicker-free dimming from 100%to0.1%,Logarithmic dimming curve
- Isolated 0-10V dimming control,1ch
- · High performance, high reliability
- CUL/CE
- 5-year warranty



210 × 40.45 × 33.5mm

Electrical Specifications

Input voltage range	100~277VAC
Frequency	47~63Hz
Input current	0.4A(MAX)
Rated power	30W
Power factor	0.95 at 110VAC; 0.92 at 220VAC (typical)
Efficiency	87%(typical)
Output voltage range	2.5~50VDC
Output current range	200mA~1050mA (settable)
Protections	Over voltage, short circuit, over temperature: auto recovery

Environmental Specifications

Operating temperature	-20℃ ~ +60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Life Time	50,000 hours at 50°C ambient
Reference dimension (L x W x H)	210 × 40.45 × 33.5 (mm)

Safety & EMC Compliance

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347.1; EN61347-2-13
Conducted emissions	EN55015; FCC part15 ClassB;
Radiated emissions	EN55015; FCC part15 ClassB;
Harmonic current emission	IEC / EN61000-3-2 Class C
Electromagnetic immunity	IEC / EN61547

Function Description

• Adjustable current output:

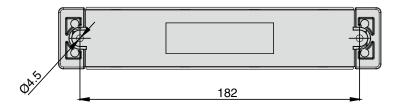
The current output can programmed in 1mA steps from 200 mA to 1050 mA.

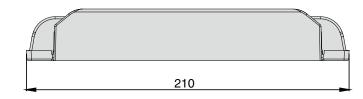
This programming can be done at the factory or in the customers place of business.

This permits optimization of the the current for the LED light engine and conformance to Energy Star Requirements.

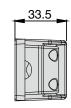
- Resolution: 20 bit resolution Max
- Dimming: Supports a wide range of dimming from 0.1% to 100% with linear or Logarithmic dimming curve & flicker-free at all levels.
- High Efficiency: 87% (typical)
- Interface: LED Code
- Temperature Management: By connecting a 47k Ω NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.

■ Mechanical Outline (unit: mm)









LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

- Outdoor Use
- DALI Intelligent Series

LED Driver
- Intelligent Series
- 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Serie
- Other Series

General
Power Supplies
- MF Series

SPF

Append

lumberin System

Quick

LED Driver - General Series - Outdoor Use - H Series Class I - H Series Class II

- Outdoor Use - Half Potted Series
- Outdoor Use - A Series
- LED Driver
- LED Driver

LED Driver - Intelligent Series - 40W Intelligent Serie

LED Driver



- LED Driver
 Intelligent Series
 Other Series
 General
- Power Supplies
 MF Series

SPD

30W Intelligent Series - MU030A105AQI3 (0-10V,1ch)

Features

- · Adjustable current range from 200mA to 1050mA
- Flicker-free dimming from 100%to0.1%,Logarithmic dimming curve
- Isolated 0-10V dimming control,1ch
- High performance, high reliability
- CUL/CE
- 5-year warranty



130 × 72 × 28mm

Electrical Specifications

Input voltage range	100~277VAC
Frequency	47~63Hz
Input current	0.4A(MAX)
Rated power	30W
Power factor	0.95 at 110VAC; 0.92 at 220VAC (typical)
Efficiency	87%(typical)
Output voltage range	2.5~50 VDC
Output current range	200mA~1050mA (settable)
Protections	Over voltage, short circuit, over temperature: auto recovery

Environmental Specifications

Operating temperature	-20℃ ~ +60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Life Time	50,000 hours at 50°C ambient
Reference dimension (L x W x H)	130 × 72 × 28 (mm)

Safety & EMC Compliance

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347.1; EN61347-2-13
Conducted emissions	EN55015; FCC part15 ClassB;
Radiated emissions	EN55015; FCC part15 ClassB;
Harmonic current emission	IEC / EN61000-3-2 Class C
Electromagnetic immunity	IEC / EN61547

Function Description

• Adjustable current output:

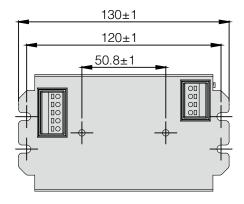
The current output can programmed in 1mA steps from 200 mA to 1050 mA.

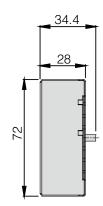
This programming can be done at the factory or in the customers place of business.

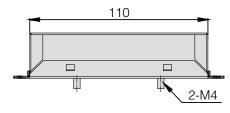
This permits optimization of the the current for the LED light engine and conformance to Energy Star Requirements.

- Resolution: 20 bit resolution Max
- Dimming: Supports a wide range of dimming from 0.1% to 100% with linear or Logarithmic dimming curve & flicker-free at all levels.
- High Efficiency: 87% (typical)
- Interface: LED Code
- Temperature Management: By connecting a 47kΩ NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.

■ Mechanical Outline (unit: mm)







Numberi System

Quick Selection

LED Driver - General Seri

- H Series Class I - H Series Class II LED Driver

- General Series
- Outdoor Use
- Half Potted Series

- General Series - Outdoor Use - A Series

General SeriesOutdoor UseOther Series

- Outdoor Use
- DALI Intelligent Series

LED Driver
Intelligent Series

LED Driver
- Intelligent Series

ED Driver
Intelligent Series

LED Driver
- Intelligent Series

LED Driver - Intelligent Serie

General
Power Supplie
- MF Series

SP

Append

Numberin System

Quick

LED Driver - General Series - Outdoor Use - H Series Class I

- LED Driver
 General Series
 Outdoor Use
- LED Driver
 General Serie
 Outdoor Use
- LED Driver
 General Serie
 Outdoor Use
 Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
 Intelligent Serie
 30W Intelligent Serie

LED Driver - Intelligent Series - 40W Intelligent Serie

LED Driver

- LED Driver
- Intelligent Serie - 96W Intelligent Serie
- General
 Power Supplies

SPD

30W Intelligent Series - MU030A105AQI32 (0-10V,1ch)

Features

- Adjustable current range from 200mA to 1050mA.
- Flicker-free dimming from 100%to0.1%,Logarithmic dimming curve
- Isolated 0-10V dimming control, 1ch
- · High performance, high reliability
- CUL/CE
- 5-year warranty



130 × 72 × 28mm

Electrical Specifications

Input voltage range	100~277VAC
Frequency	47~63Hz
Input current	0.4A(MAX)
Rated power	30W
Power factor	0.95 at 110VAC; 0.92 at 220VAC (typical)
Efficiency	87%(typical)
Output voltage range	2.5~50VDC
Output current range	200mA~1050mA (settable)
Protections	Over voltage, short circuit, over temperature: auto recovery

Environmental Specifications

Operating temperature	-20℃ ~ +60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Life Time	50,000 hours at 50°C ambient
Reference dimension (L x W x H)	130 × 72 × 28 (mm)

Safety & EMC Compliance

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347.1; EN61347-2-13
Conducted emissions	EN55015; FCC part15 ClassB;
Radiated emissions	EN55015 ; FCC part15 ClassB;
Harmonic current emission	IEC / EN61000-3-2 Class C
Electromagnetic immunity	IEC / EN61547

Function Description

• Adjustable current output:

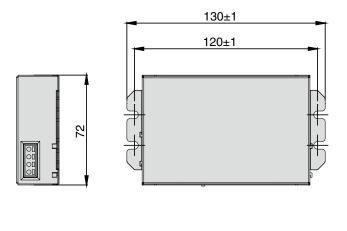
The current output can programmed in 1mA steps from 200 mA to 1050 mA.

This programming can be done at the factory or in the customers place of business.

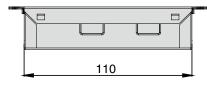
This permits optimization of the the current for the LED light engine and conformance to Energy Star Requirements.

- Resolution: 20 bit resolution Max
- Dimming: Supports a wide range of dimming from 0.1% to 100% with linear or Logarithmic dimming curve & flicker-free at all levels.
- High Efficiency: 87% (typical)
- Interface: LED Code
- Temperature Management: By connecting a 47 Ω NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.

Mechanical Outline (unit: mm)







- Compliant with Class 2 Power supply safety standards
- Constant current LED driver
- Support DALI type 6

Features

- 1 LED channel, output current can be changed from 200mA to
- · Constant power maximum is 30W
- Normal life time is 50000 hours (at the case's temperature of $77\,^\circ\!\!\!\!\mathrm{C}$)

30W Intelligent Series - MU030I180AQI22 (DALI,1ch)

- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



 $126\times76\times30mm$

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<10A
Rated power	30W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	84 - 86 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1800mA
Protections	Thermal protection, short-circuit protection, no-load protection, over-power protection

Environmental Specifications

Operating temperature	-25℃ - +67℃
Storage temperature	-40℃ - +85℃
Maximum case temperature	89℃
Cooling method	Convection
Life time	50,000 hours at tc 77℃ ambient
Reference dimension(LxWxH)	126 × 76 × 30 mm

CUL	UL8750,UL1310,CAN/CSA-C22.2 NO.223-M91
CE	EN61347-1,EN61347-2-13
Conducted Emissions	FCC Part15 Class B /EN55015
Radiated Emissions	FCC Part15 Class B /EN55015
Harmonic Current Emissions	EN 61000-3-2
Voltage Fluctuations and Flicker	EN 61000-3-3
Electrostatic Discharge	EN 61000-4-2
RFE Field Susceptibility	EN 61000-4-3
Electrical Fast Transient	EN 61000-4-4
Conducted Radio Frequency	EN 61000-4-6
Power Frequency Magnetic Field Test	EN 61000-4-8
Voltage Dips	EN 61000-4-11
Electromagnetic Immunity	EN61547

Function Description

• DALI type 6

DA+ and DA- are both the interfaces of DALI.

· SwitchDIM (with memory function)---push dimming

SwitchDIM means that you can use two lines to connect L and N to DA+ and DA- respectively, and add a switch in series to either of the two lines to complete the function of ON/OFF and dimming. Short press(<0.6s) can turn on/off the driver, and long press can adjust the dimming level. When several drivers are connected together and controlled by one switch, press the switch for 10s, all the drivers are dimmed to 50% at the same time.

MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configurator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DALI address, scene modes etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

· Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110 $^{\circ}$ C, output current will be decreased to 50%. And it cannot recover until the temperature drops to 70 $^{\circ}$ C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

If the total power exceeds 45W, the output current of each channel will decrease to 50%.

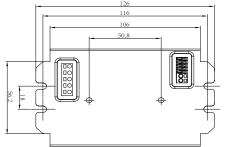
DALI Signal Abnormality

If the signal of DALI is abnormal, including open-circuit and short-circuit, the output will recover to the preset maxium value.

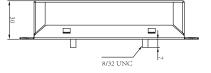
Online Update

Connect Smartkey to PC through a USB port, then connect Smartkey to the driver correctly to update. Please refer to the specification of Smartkey.

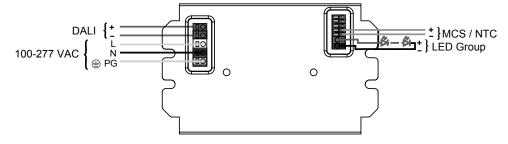
Mechanical Outline (unit: mm)







Schematic Diagram



Number

Quick

LED Driver
- General Serie
- Outdoor Use
- H Series Class I
- H Series Class II

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver - Outdoor Use - DALI Intelligent Seri

LED Driver
- Intelligent Series
- 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Serie
- Other Series

General
Power Supplie

SPI

Append

lumbering ystem

LED Driver - General Series

LED Driver - General Series - Outdoor Use - Half Potted Series

- Outdoor Use - A Series
- LED Driver
 Outdoor Use
 DAU Intelligent Series
- LED Driver
 Intelligent Serie
 30W Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Serie
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
- MF Series

30W Intelligent Series - MU030I180AQI2 (DALI,1ch)

Features

- · Compliant with Class 2 Power supply safety standards
- · Constant current LED driver
- Support DALI type 6
- 1 LED channel, output current can be changed from 200mA to 1800mA
- Constant power maximum is 30W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



126 × 76 × 30mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<10A
Rated power	30W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	84 - 86 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1800mA
Protections	Thermal protection, short-circuit protection, no-load protection, over-power protection

Environmental Specifications

Operating temperature	-25℃ - +67℃
Storage temperature	-40℃ - +85℃
Maximum case temperature	89℃
Cooling method	Convection
Life time	50,000 hours at tc 77 °C ambient
Reference dimension(LxWxH)	126 × 76 × 30 mm

CUL	UL8750,UL1310,CAN/CSA-C22.2 NO.223-M91
CE	EN61347-1,EN61347-2-13
Conducted Emissions	FCC Part15 Class B /EN55015
Radiated Emissions	FCC Part15 Class B /EN55015
Harmonic Current Emissions	EN 61000-3-2
Voltage Fluctuations and Flicker	EN 61000-3-3
Electrostatic Discharge	EN 61000-4-2
RFE Field Susceptibility	EN 61000-4-3
Electrical Fast Transient	EN 61000-4-4
Conducted Radio Frequency	EN 61000-4-6
Power Frequency Magnetic Field Test	EN 61000-4-8
/oltage Dips	EN 61000-4-11
Electromagnetic Immunity	EN61547

Function Description

• DALI type 6

DA+ and DA- are both the interfaces of DALI.

· SwitchDIM (with memory function)---push dimming

SwitchDIM means that you can use two lines to connect L and N to DA+ and DA- respectively, and add a switch in series to either of the two lines to complete the function of ON/OFF and dimming. Short press(<0.6s) can turn on/off the driver, and long press can adjust the dimming level. When several drivers are connected together and controlled by one switch, press the switch for 10s, all the drivers are dimmed to 50% at the same time.

· MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configurator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DALI address, scene modes etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

• Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110° C, output current will be decreased to 50%. And it cannot recover until the temperature drops to 70° C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

If the total power exceeds 45W, the output current of each channel will decrease to 50%.

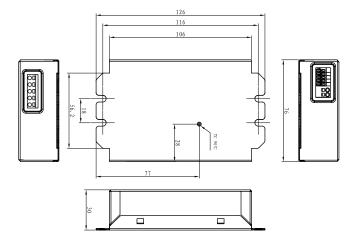
DALI Signal Abnormality

If the signal of DALI is abnormal, including open-circuit and short-circuit, the output will recover to the preset maxium value.

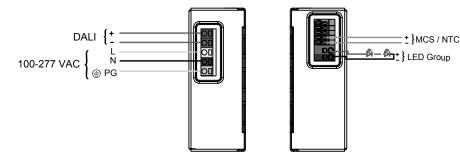
Online Update

Connect Smartkey to PC through a USB port, then connect Smartkey to the driver correctly to update. Please refer to the specification of Smartkey.

Mechanical Outline (unit: mm)



Schematic Diagram



Number System

Quick

- General Serie
- Outdoor Use
- H Series Class I
- H Series Class II

- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use

LED Driver
- Intelligent Series
- 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

.ED Driver Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

General
Power Supplie

SPD

Appendi

lumbering system

Quick Selection

- General Series - Outdoor Use - H Series Class I - H Series Class II

- Outdoor Use - Half Potted Series LED Driver
- LED Driver
 General Series
 Outdoor Use
- LED Driver
 Outdoor Use
 DALI Intelligent Seri
- LED Driver
 Intelligent Serie
 30W Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Serie
- LED Driver
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
- Power Supplies - MF Series

SPD

30W Intelligent Series - MU030I180AQI12 (0-10V,1ch)

Features

- · Compliant with Class 2 Power supply safety standards
- · Constant current LED driver
- Support isolated 0-10V dimming
- 1 LED channel, output current can be changed from 200mA to 1800mA
- · Constant power maximum is 30W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



126 × 76 × 30mm

Electrical Specifications

Input voltage range	100 - 277 V	
Frequency	50 / 60 HZ	
Input current	<10A	
Rated power	30W	
Power factor	>0.95 (230V,50HZ,full loaded)	
Maxium input power	<40W	
Effiency	84 - 86 % (230V,50HZ,full loaded)	
Output voltage range	8 - 50 V	
Output current	200-1800mA	
Protections	Thermal protection, short-circuit protection, no-load protection, over-power protection	

Environmental Specifications

Operating temperature	-25℃ - +67℃
Storage temperature	-40℃ - +85℃
Maximum case temperature	89℃
Cooling method	Convection
Life time	50,000 hours at tc 77°C ambient
Reference dimension(LxWxH)	126 × 76 × 30 mm

CUL	UL8750,UL1310,CAN/CSA-C22.2 NO.223-M91
CE	EN61347-1,EN61347-2-13
Conducted Emissions	FCC Part15 Class B /EN55015
Radiated Emissions	FCC Part15 Class B /EN55015
Harmonic Current Emissions	EN 61000-3-2
Voltage Fluctuations and Flicker	EN 61000-3-3
Electrostatic Discharge	EN 61000-4-2
RFE Field Susceptibility	EN 61000-4-3
Electrical Fast Transient	EN 61000-4-4
Conducted Radio Frequency	EN 61000-4-6
Power Frequency Magnetic Field Test	EN 61000-4-8
Voltage Dips	EN 61000-4-11
Electromagnetic Immunity	EN61547

Function Description

MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configurator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

• Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110° C, output current will be decreased to 50%. And it cannot recover until the temperature drops to 70° C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

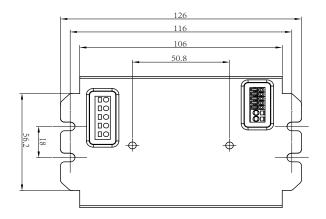
If the total power exceeds 45W, the output current of each channel will decrease to 50%.

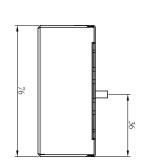
· Online Update

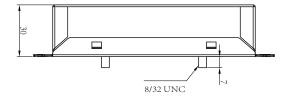
Use smart key to connect PC and the driver to update the firmware.

Please refer to the specification of Smart key.

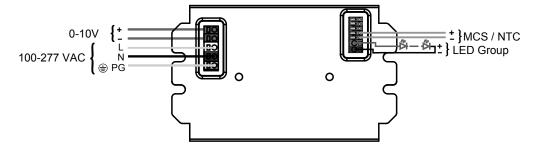
Mechanical Outline (unit: mm)







Schematic Diagram



Numbe

Quick

LED Driver
- General Serie
- Outdoor Use
- H Series Class I
- H Series Class II

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

- Outdoor Use - DALI Intelligent Seri

LED Driver
- Intelligent Series
- 30W Intelligent Series

ED Driver Intelligent Series 40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Serie
- Other Series

General
Power Supplie

SP

Append

lumbering ystem

Quick Selection

- General Series - Outdoor Use - H Series Class I - H Series Class II

- General Series
 Outdoor Use
 Half Potted Series
- A Series

 LED Driver
 General Series
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
 Intelligent Serie
 30W Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
- Power Supplies - MF Series

SPD

30W Intelligent Series - MU030I180AQI1 (0-10V,1ch)

Features

- Compliant with Class 2 Power supply safety standards
- · Constant current LED driver
- Support isolated 0-10V dimming
- 1 LED channel, output current can be changed from 200mA to 1800mA
- Constant power maximum is 30W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



126 × 76 × 30mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<10A
Rated power	30W
Power factor	>0.95 (230V,50HZ,full loaded)
Maxium input power	<40W
Effiency	84 - 86 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current	200-1800mA
Protections	Thermal protection, short-circuit protection, no-load protection, over-power protection

Environmental Specifications

Operating temperature	-25℃ - +67℃
Storage temperature	-40°C - +85°C
Maximum case temperature	89℃
Cooling method	Convection
Life time	50,000 hours at tc 77°C ambient
Reference dimension(LxWxH)	126 × 76 × 30 mm

CUL	UL8750,UL1310,CAN/CSA-C22.2 NO.223-M91
CE	EN61347-1,EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN 61000-3-2
Voltage Fluctuations and Flicker	EN 61000-3-3
Electrostatic Discharge	EN 61000-4-2
RFE Field Susceptibility	EN 61000-4-3
Electrical Fast Transient	EN 61000-4-4
Conducted Radio Frequency	EN 61000-4-6
Power Frequency Magnetic Field Test	EN 61000-4-8
Voltage Dips	EN 61000-4-11
Electromagnetic Immunity	EN61547

Function Description

MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configurator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

· Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110 $^{\circ}$ C, output current will be decreased to 50%. And it cannot recover until the temperature drops to 70 $^{\circ}$ C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot pluqin.

Over-Power Protection

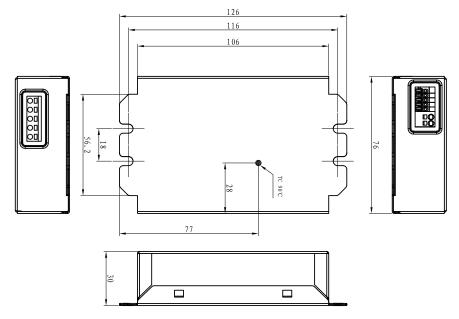
If the total power exceeds 45W, the output current of each channel will decrease to 50%.

Online Update

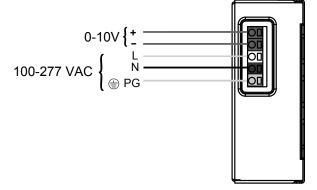
Use smart key to connect PC and the driver to update the firmware.

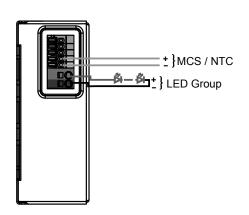
Please refer to the specification of Smart key.

Mechanical Outline (unit: mm)



Schematic Diagram





Quick Select

LED Driver
- General Serie
- Outdoor Use
- H Series Class I
- H Series Class II

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

- Outdoor Use - DALI Intelligent Seri

ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Serie

LED Driver
- Intelligent Serie
- Other Series

General
Power Suppli

SPI

Appendi

lumbering System

Quick

- LED Driver - General Series - Outdoor Use - H Series Class I
- General Series
 Outdoor Use
- LED Driver
 General Serie
 Outdoor Use
- LED Driver
 General Series
 Outdoor Use
- LED Driver
 Outdoor Use
 DALI Intelligent Ser



LED Driver - Intelligent Series - 40W Intelligent Series

LED Driver - Intelligent Serie



LED Driver
- Intelligent Series
- Other Series

- MF Series

30W Intelligent Series - MU030I180AQI52 (DMX,1ch)

Features

- Compliant with Class 2 Power supply safety standards
- · Constant current LED driver
- Support DMX/RDM dimming
- 1 LED channel, output current can be changed from 200mA to 1800mA
- · Constant power maximum is 30W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



126 × 76 × 30mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<10A
Rated power	30W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	84 - 86 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1800mA
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection

Environmental Specifications

Operating temperature	-25℃ - +67℃
Storage temperature	-40℃ - +85℃
Maximum case temperature	89℃
Cooling method	Convection
Life time	50,000 hours at tc 77°C ambient
Reference dimension(LxWxH)	126 × 76 × 30 mm

CUL	UL8750,UL1310,CAN/CSA-C22.2 NO.223-M91
CE	EN61347-1,EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
adiated Emissions	FCC Part15 Class B /EN55015
armonic Current Emissions	EN 61000-3-2
oltage Fluctuations and Flicker	EN 61000-3-3
lectrostatic Discharge	EN 61000-4-2
FE Field Susceptibility	EN 61000-4-3
ectrical Fast Transient	EN 61000-4-4
onducted Radio Frequency	EN 61000-4-6
ower Frequency Magnetic Field Test	EN 61000-4-8
oltage Dips	EN 61000-4-11
lectromagnetic Immunity	EN61547

Function Description

DMX/RDM

DMX+ , DMX-, Shield are the interfaces of DMX/RDM.

MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configuarator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DMX address, scene modes etc.Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110° C, output current will be decreased to 50%. And it cannot

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. **No-load Protection**

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

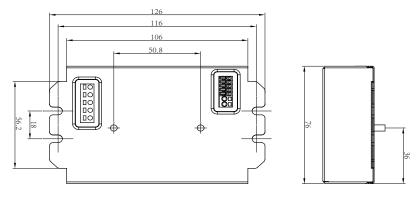
Over-Power Protection

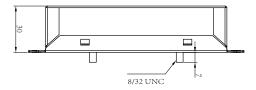
If the total power exceeds 45W, the output current of each channel will decrease to 50%.

Online Update

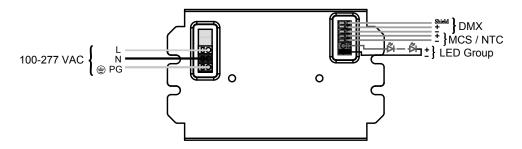
Connect Smartkey to PC through a USB port, then connect Smartkey to the driver correctly to update. Please refer to the specification of Smartkey.

Mechanical Outline (unit: mm)





Schematic Diagram



lumbering system

Quick

LED Driver General Series Outdoor Use H Series Class I

- LED Driver
 General Series
 Outdoor Use
- LED Driver
 General Serie
 Outdoor Use
- LED Driver
 General Serie
 Outdoor Use
- LED Driver
 Outdoor Use
 DALI Intelligent Ser



LED Driver - Intelligent Series - 40W Intelligent Series

LED Driver - Intelligent Serie



LED Driver
- Intelligent Series
- Other Series

- MF Series

30W Intelligent Series - MU030I180AQI5 (DMX,1ch)

Features

- · Compliant with Class 2 Power supply safety standards
- · Constant current LED driver
- Support DMX/RDM dimming
- 1 LED channel, output current can be changed from 200mA to 1800mA
- · Constant power maximum is 30W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



126 × 76 × 30mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<10A
Rated power	30W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	84 - 86 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1800mA
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection

Environmental Specifications

Operating temperature	-25℃ - +67℃
Storage temperature	-40℃ - +85℃
Maximum case temperature	89℃
Cooling method	Convection
Life time	50,000 hours at tc 77°C ambient
Reference dimension(LxWxH)	126 × 76 × 30 mm

CUL	UL8750,UL1310,CAN/CSA-C22.2 NO.223-M91
CE	EN61347-1,EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN 61000-3-2
Voltage Fluctuations and Flicker	EN 61000-3-3
Electrostatic Discharge	EN 61000-4-2
RFE Field Susceptibility	EN 61000-4-3
Electrical Fast Transient	EN 61000-4-4
Conducted Radio Frequency	EN 61000-4-6
Power Frequency Magnetic Field Test	EN 61000-4-8
/oltage Dips	EN 61000-4-11
Electromagnetic Immunity	EN61547

Function Description

DMX/RDM

DMX+ , DMX-, Shield are the interfaces of DMX/RDM.

MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configuarator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DMX address, scene modes etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110° C, output current will be decreased to 50%. And it cannot

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. **No-load Protection**

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

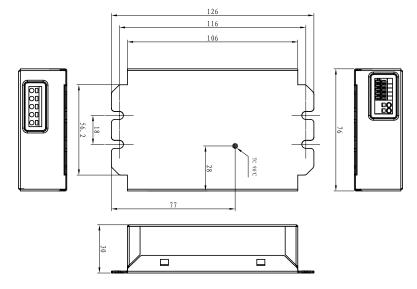
Over-Power Protection

If the total power exceeds 45W, the output current of each channel will decrease to 50%.

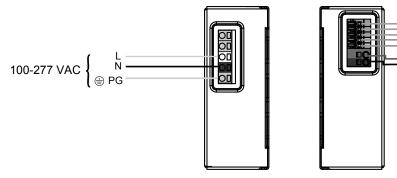
Online Update

Connect Smartkey to PC through a USB port, then connect Smartkey to the driver correctly to update. Please refer to the specification of Smartkey.

Mechanical Outline (unit: mm)



Schematic Diagram



*hield DMX $\frac{1}{2}$ MCS / NTC

<u>\$ - \$ +</u> } LED Group

Numbering System

Quick Selection

LED Driver - General Series - Outdoor Use - H Series Class I

- LED Driver
 General Series
 Outdoor Use
 Half Potted Series
- General Serie - Outdoor Use - A Series
- LED Driver
 General Serie
 Outdoor Use
 Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
- LED Driver
 Intelligent Series
 40W Intelligent Series

LED Driver

- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Serie
 Other Series
- General
- SPD

40W Intelligent Series - MU040I180AQI22 (DALI,1ch)

Features

- · Compliant with Class 2 Power supply safety standards
- Constant current LED driver
- Support DALI type 6
- 1 LED channel, output current can be changed from 200mA to 1800mA
- · Constant power maximum is 40W
- Dimming range 1%~100%
- Protection compliant with IP20
- 5-year warranty



 $126\times76\times30mm$

Electrical Specifications

Input voltage range	100 - 277 V	
Frequency	50 / 60 HZ	
Input current	<12A	
Rated power	40W	
Power factor	>0.95 (230V,50HZ,full loaded)	
Effiency	86 - 88 % (230V,50HZ,full loaded)	
Output voltage range	8 - 50 V	
Output current range	200-1800mA	
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection	

Environmental Specifications

Operating temperature	-25℃ - +63℃
Storage temperature	-40℃ - +85℃
Maximum case temperature	86℃
Cooling method	Convection
Life time	50,000 hours at tc 75°C ambient
Reference dimension(LxWxH)	126 × 76 × 30 mm

Safety & EMC Compliance

CUL	UL8750,UL1310,CAN/CSA-C22.2 NO.223-M91
CE	EN61347-1,EN61347-2-13
Conducted Emissions	FCC Part15 Class B /EN55015
Radiated Emissions	FCC Part15 Class B /EN55015
Harmonic Current Emissions	EN 61000-3-2
Voltage Fluctuations and Flicker	EN 61000-3-3
Electrostatic Discharge	EN 61000-4-2
RFE Field Susceptibility	EN 61000-4-3
Electrical Fast Transient	EN 61000-4-4
Conducted Radio Frequency	EN 61000-4-6
Power Frequency Magnetic Field Test	EN 61000-4-8
Voltage Dips	EN 61000-4-11
Electromagnetic Immunity	EN61547

Function Description

• DALI type 6

DA+ and DA- are both the interfaces of DALI.

· SwitchDIM (with memory function)---push dimming

SwitchDIM means that you can use two lines to connect L and N to DA+ and DA- respectively, and add a switch in series to either of the two lines to complete the function of ON/OFF and dimming. Short press(<0.6s) can turn on/off the driver, and long press can adjust the dimming level. When several drivers are connected together and controlled by one switch, press the switch for 10s, all the drivers are dimmed to 50% at the same time.

· MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configurator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DALI address, scene modes etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

· Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110 $^{\circ}$ C, output current will be decreased to 50%. And it cannot recover until the temperature drops to 70 $^{\circ}$ C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

If the total power exceeds 55W, the output current of each channel will decrease to 50%.

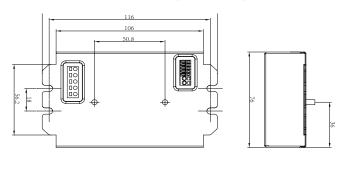
DALI Signal Abnormality

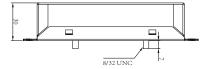
If the signal of DALI is abnormal, including open-circuit and short-circuit, the output will recover to the preset maxium value.

Online Update

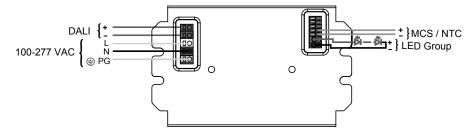
Connect Smartkey to PC through a USB port, then connect Smartkey to the driver correctly to update. Please refer to the specification of Smartkey.

Mechanical Outline (unit: mm)





Schematic Diagram



Number

Quick

- General Serie
- Outdoor Use
- H Series Class I

LED Driver
- General Series
- Outdoor Use

LED Driver - General Series - Outdoor Use

LED Driver
- General Series
- Outdoor Use

LED Driver - Outdoor Use - DALI Intelligent Seri

ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

General
Power Supplie

SP

Append

Numbering System

Quick Selection

LED Driver - General Series - Outdoor Use - H Series Class I

- LED Driver
 General Series
 Outdoor Use
 Half Potted Series
- General Serio
- General Serie
 Outdoor Use
 Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series

LED Driver

- LED Driver
 Intelligent Series
- LED Driver
- General
- MF Senes

SPD

40W Intelligent Series - MU040I180AQI2 (DALI,1ch)

Features

- Compliant with Class 2 Power supply safety standards
- Constant current LED driver
- Support DALI type 6
- 1 LED channel, output current can be changed from 200mA to 1800mA
- · Constant power maximum is 40W
- Dimming range 1%~100%
- Protection compliant with IP20
- 5-year warranty



126 × 76 × 30mm

Electrical Specifications

Input voltage range	100 - 277 V	
Frequency	50 / 60 HZ	
Input current	<12A	
Rated power	40W	
Power factor	>0.95 (230V,50HZ,full loaded)	
Effiency	86 - 88 % (230V,50HZ,full loaded)	
Output voltage range	8 - 50 V	
Output current range	200-1800mA	
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection	

Environmental Specifications

Operating temperature	-25℃ - +63℃
Storage temperature	-40℃ - +85℃
Maximum case temperature	2°88
Cooling method	Convection
Life time	50,000 hours at tc 75℃ ambient
Reference dimension(LxWxH)	126 × 76 × 30 mm

Safety & EMC Compliance

CUL	UL8750,UL1310,CAN/CSA-C22.2 NO.223-M91
CE	EN61347-1,EN61347-2-13
Conducted Emissions	FCC Part15 Class B /EN55015
Radiated Emissions	FCC Part15 Class B /EN55015
Harmonic Current Emissions	EN 61000-3-2
Voltage Fluctuations and Flicker	EN 61000-3-3
Electrostatic Discharge	EN 61000-4-2
RFE Field Susceptibility	EN 61000-4-3
Electrical Fast Transient	EN 61000-4-4
Conducted Radio Frequency	EN 61000-4-6
Power Frequency Magnetic Field Test	EN 61000-4-8
Voltage Dips	EN 61000-4-11
Electromagnetic Immunity	EN61547

Function Description

• DALI type 6

DA+ and DA- are both the interfaces of DALI.

· SwitchDIM (with memory function)---push dimming

SwitchDIM means that you can use two lines to connect L and N to DA+ and DA- respectively, and add a switch in series to either of the two lines to complete the function of ON/OFF and dimming. Short press(<0.6s) can turn on/off the driver, and long press can adjust the dimming level. When several drivers are connected together and controlled by one switch, press the switch for 10s, all the drivers are dimmed to 50% at the same time.

· MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configurator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DALI address, scene modes etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

· Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110 $^{\circ}$ C, output current will be decreased to 50%. And it cannot recover until the temperature drops to 70 $^{\circ}$ C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

If the total power exceeds 55W, the output current of each channel will decrease to 50%.

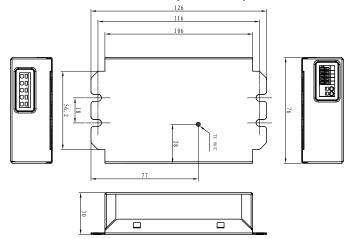
• DALI Signal Abnormality

If the signal of DALI is abnormal, including open-circuit and short-circuit, the output will recover to the preset maxium value.

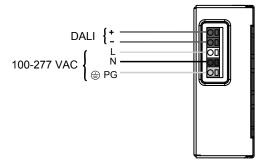
Online Update

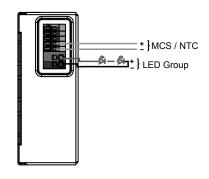
Connect Smartkey to PC through a USB port, then connect Smartkey to the driver correctly to update. Please refer to the specification of Smartkey.

Mechanical Outline (unit: mm)



Schematic Diagram





Numbe

Quick

- General Serie
- Outdoor Use
- H Series Class I

LED Driver
- General Series
- Outdoor Use

LED Driver - General Series - Outdoor Use

LED Driver
- General Series
- Outdoor Use

LED Driver - Outdoor Use - DALI Intelligent Seri

ED Driver Intelligent Series 30W Intelligent Series

ED Driver Intelligent Series 40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Serie:
- Other Series

General
Power Supplie

SPI

Appendi

Numbering System

Quick

LED Driver - General Series - Outdoor Use - H Serles Class I

- General Series
 Outdoor Use
 Half Potted Series
- LED Driver
 General Serie
 Outdoor Use
- General Serie - Outdoor Use - Other Series
- LED Driver
 Outdoor Use
- LED Driver
- LED Driver
 Intelligent Series
 40W Intelligent Series

LED Driver

- LED Driver
 Intelligent Series
- Other Senes

SPD

40W Intelligent Series - MU040I180AQI12 (0-10v,1ch)

Features

- Compliant with Class 2 Power supply safety standards
- Constant current LED driver
- Support isolated 0-10V dimming
- 1 LED channel, output current can be changed from 200mA to 1800mA
- Constant power maximum is 40W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



126 × 76 × 30mm

Electrical Specifications

Input voltage range	100 - 277 V	
Frequency	50 / 60 HZ	
Input current	<12A	
Rated power	40W	
Power factor	>0.95 (230V,50HZ,full loaded)	
Effiency	86 - 88 % (230V,50HZ,full loaded)	
Output voltage range	8 - 50 V	
Output current range	200-1800mA	
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection	

Environmental Specifications

Operating temperature	-25℃ - +63℃
Storage temperature	-40℃ - +85℃
Maximum case temperature	86℃
Cooling method	Convection
Life time	50,000 hours at tc 75℃ ambient
Reference dimension(LxWxH)	126 × 76 × 30 mm

Safety & EMC Compliance

OH	LII 0750 LII 1010 CAN/CCA COO 0 NO 000 M01
CUL	UL8750,UL1310,CAN/CSA-C22.2 NO.223-M91
CE	EN61347-1,EN61347-2-13
Conducted Emissions	FCC Part15 Class B /EN55015
Radiated Emissions	FCC Part15 Class B /EN55015
Harmonic Current Emissions	EN 61000-3-2
Voltage Fluctuations and Flicker	EN 61000-3-3
Electrostatic Discharge	EN 61000-4-2
RFE Field Susceptibility	EN 61000-4-3
Electrical Fast Transient	EN 61000-4-4
Conducted Radio Frequency	EN 61000-4-6
Power Frequency Magnetic Field Test	EN 61000-4-8
Voltage Dips	EN 61000-4-11
Electromagnetic Immunity	EN61547

Function Description

MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configuarator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

· Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110°C, output current will be decreased to 50%. And it cannot recover until the temperture drops to 70° C .

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

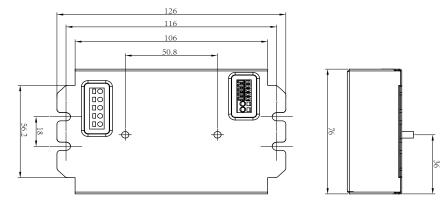
If the total power exceeds 45W, the output current of each channel will decrease to 50%.

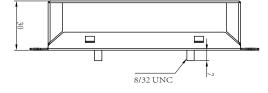
Online Update

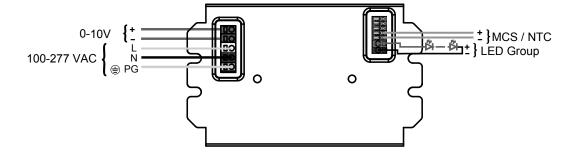
Use smart key to connect PC and the driver to update the firmware

Please refer to the specification of Smart key

Mechanical Outline (unit: mm)







lumbering system

Quick

LED Driver
General Series
Outdoor Use
H Series Class I
H Series Class II

- General Series - Outdoor Use - Half Potted Series

- General Series - Outdoor Use - A Series
- Outdoor Use - Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Seri
- LED Driver
- LED Driver
 Intelligent Series
 40W Intelligent Series

LED Driver

LED Driver
- Intelligent Series

LED Driver
- Intelligent Serie
- Other Series

Power Supplies

SPD

40W Intelligent Series - MU040I180AQI1 (0-10v,1ch)

Features

- Compliant with Class 2 Power supply safety standards
- Constant current LED driver
- Support isolated 0-10V dimming
- 1 LED channel, output current can be changed from 200mA to 1800mA
- Constant power maximum is 40W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



126 × 76 × 30mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<12A
Rated power	40W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	86 - 88 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1800mA
Protections	Thermal protection, short-circuit protection, no-load protection, over-power protection

Environmental Specifications

Operating temperature	-25℃ - +63℃
Storage temperature	-40℃ - +85℃
Maximum case temperature	86℃
Cooling method	Convection
Life time	50,000 hours at tc 75℃ ambient
Reference dimension(LxWxH)	126 × 76 × 30 mm

Safety & EMC Compliance

CUL	UL8750,UL1310,CAN/CSA-C22.2 NO.223-M91
CE	EN61347-1,EN61347-2-13
Conducted Emissions	FCC Part15 Class B /EN55015
Radiated Emissions	FCC Part15 Class B /EN55015
Harmonic Current Emissions	EN 61000-3-2
Voltage Fluctuations and Flicker	EN 61000-3-3
Electrostatic Discharge	EN 61000-4-2
RFE Field Susceptibility	EN 61000-4-3
Electrical Fast Transient	EN 61000-4-4
Conducted Radio Frequency	EN 61000-4-6
Power Frequency Magnetic Field Test	EN 61000-4-8
Voltage Dips	EN 61000-4-11
Electromagnetic Immunity	EN61547

Function Description

· MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configuarator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

· Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110°C, output current will be decreased to 50%. And it cannot recover until the temperture drops to 70° C .

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

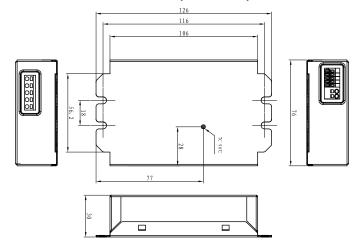
If the total power exceeds 45W, the output current of each channel will decrease to 50%.

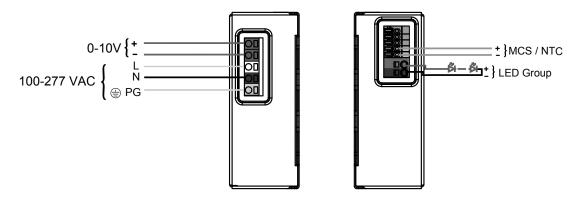
· Online Update

Use smart key to connect PC and the driver to update the firmware

Please refer to the specification of Smart key

Mechanical Outline (unit: mm)





lumbering ystem

Quick Selection

LED Driver - General Series - Outdoor Use - H Series Class I - H Series Class II

- Outdoor Use - Half Potted Series

- General Serie: - Outdoor Use - A Series
- LED Driver
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series

LED Driver

- LED Driver
 Intelligent Series
- LED Driver - Intelligent Series - Other Series

- MF Series

40W Intelligent Series - MU040I180AQI52 (DMX,1ch)

Features

- Compliant with Class 2 Power supply safety standards
- Constant current LED driver
- Support DMX/RDM dimming
- 1 LED channel, output current can be changed from 200mA to 1800mA
- Constant power maximum is 40W
- Normal life time is 50000 hours (at the case's temperature of 75 $^{\circ}\text{C}$)
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



126 × 76 × 30mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<12A
Rated power	40W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	86 - 88 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1800mA
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection

Environmental Specifications

Operating temperature	-25℃ - +63℃
Storage temperature	-40℃ - +85℃
Maximum case temperature	86℃
Cooling method	Convection
Life time	50,000 hours at tc 75°C ambient
Reference dimension(LxWxH)	126 × 76 × 30 mm

Safety & EMC Compliance

CUL	UL8750,UL1310,CAN/CSA-C22.2 NO.223-M91
CE	EN61347-1,EN61347-2-13
Conducted Emissions	FCC Part15 Class B /EN55015
Radiated Emissions	FCC Part15 Class B /EN55015
Harmonic Current Emissions	EN 61000-3-2
Voltage Fluctuations and Flicker	EN 61000-3-3
Electrostatic Discharge	EN 61000-4-2
RFE Field Susceptibility	EN 61000-4-3
Electrical Fast Transient	EN 61000-4-4
Conducted Radio Frequency	EN 61000-4-6
Power Frequency Magnetic Field Test	EN 61000-4-8
Voltage Dips	EN 61000-4-11
Electromagnetic Immunity	EN61547

Function Description

DMX/RDM

DMX+ 、 DMX-、 Shield are the interfaces of DMX/RDM.

· MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configuarator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DMX address, scene modes etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

· Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110°C, output current will be decreased to 50%. And it cannot recover until the temperture drops to 70° C .

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. **No-load Protection**

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

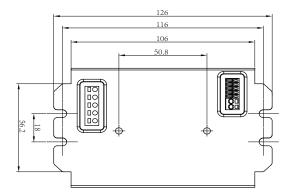
Over-Power Protection

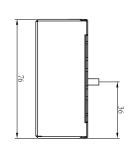
If the total power exceeds 55W, the output current of each channel will decrease to 50%.

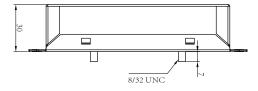
· Online Update

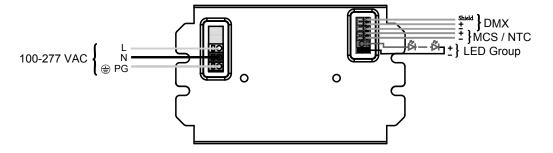
Connect Smartkey to PC through a USB port, then connect Smartkey to the driver correctly to update. Please refer to the specification of Smartkey.

Mechanical Outline (unit: mm)









lumbering System

Quick

LED Driver - General Series - Outdoor Use - H Series Class I - H Series Class II

LED Driver - General Series - Outdoor Use - Half Potted Series

- General Series - Outdoor Use - A Series
- General Serie - Outdoor Use - Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Se
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Serie
 40W Intelligent Serie

LED Driver

- LED Driver
 Intelligent Series
- LED Driver - Intelligent Series - Other Series
- MF Series

40W Intelligent Series - MU040I180AQI5 (DMX,1ch)

Features

- Compliant with Class 2 Power supply safety standards
- Constant current LED driver
- Support DMX/RDM dimming
- 1 LED channel, output current can be changed from 200mA to 1800mA
- Constant power maximum is 40W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



126 × 76 × 30mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<12A
Rated power	40W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	86 - 88 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1800mA
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection

Environmental Specifications

Operating temperature	-25℃ - +63℃
Storage temperature	-40℃ - +85℃
Maximum case temperature	86℃
Cooling method	Convection
Life time	50,000 hours at tc 75℃ ambient
Reference dimension(LxWxH)	126 × 76 × 30 mm

Safety & EMC Compliance

CUL	UL8750,UL1310,CAN/CSA-C22.2 NO.223-M91
CE	EN61347-1,EN61347-2-13
Conducted Emissions	FCC Part15 Class B /EN55015
Radiated Emissions	FCC Part15 Class B /EN55015
Harmonic Current Emissions	EN 61000-3-2
Voltage Fluctuations and Flicker	EN 61000-3-3
Electrostatic Discharge	EN 61000-4-2
RFE Field Susceptibility	EN 61000-4-3
Electrical Fast Transient	EN 61000-4-4
Conducted Radio Frequency	EN 61000-4-6
Power Frequency Magnetic Field Test	EN 61000-4-8
Voltage Dips	EN 61000-4-11
Electromagnetic Immunity	EN61547

Function Description

DMX/RDM

DMX+ 、 DMX-、 Shield are the interfaces of DMX/RDM.

· MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configuarator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DMX address, scene modes etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

· Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

• Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110℃, output current will be decreased to 50%. And it cannot recover until the temperture drops to 70° C .

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. **No-load Protection**

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

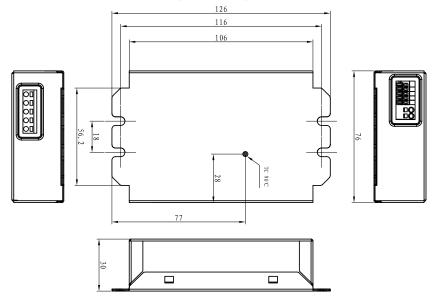
Over-Power Protection

If the total power exceeds 55W, the output current of each channel will decrease to 50%.

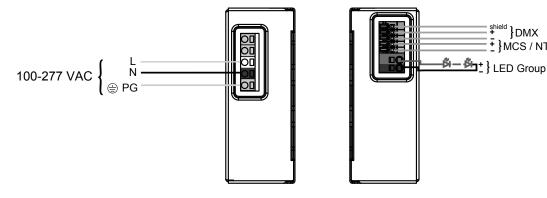
· Online Update

Connect Smartkey to PC through a USB port, then connect Smartkey to the driver correctly to update. Please refer to the specification of Smartkey.

Mechanical Outline (unit: mm)



Schematic Diagram



* DMX ₹ \ MCS / NTC



50W Intelligent Series - MU050A105AQI0 (DALI, 1ch)

Features

- · Adjustable current range from 200mA to 1050mA
- Flicker-free dimming from 100%to0.1%,Logarithmic dimming curve
- DALI dimming control, 1ch
- · Compact size, high performance, high reliability
- CUL/CE/PSE/VDE
- 5-year warranty



130 × 76 × 30mm

Electrical Specifications

Input voltage range	100~277VAC
Frequency	43-67Hz
Input current	0.7A(MAX)
Rated power	50W
Power factor	0.98 at 110VAC; 0.94 at 220VAC (typical)
Efficiency	89% (typical) at 220 VAC; 87% (typical) at 110 VAC
Output voltage range	2.5~50VDC
Output current range	200mA~1050mA (settable)
Protections	Over voltage, short circuit, over temperature: auto recovery

Environmental Specifications

Operating temperature	-20℃ ~ +50℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Life Time	50,000 hours at 50°C ambient
Reference dimension (L x W x H)	130 × 76 × 30 (mm)

Safety & EMC Compliance

CUL	UL8750, UL1310
CE	EN61347-1, EN61347-2-13
PSE	J61347-1, J61347-2-13, J55015
Conducted emissions	FCC Level B / EN55015
Radiated emissions	FCC Level B / EN55015
Electromagnetic immunity	EN61547

Function Description

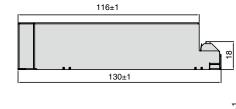
• Adjustable current output:

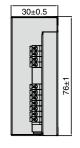
The current output can programmed in 1 mA steps from 200 mA to 1050 mA.

This programming can be done at the factory or in the customers place of business.

- Resolution: 20 bit resolution
- Dimming: Supports a wide range of dimming from 0.1% to 100% with linear orLogarithmic dimming curve & flicker-free at all levels.
- High Efficiency: 89% over a wide power range
- Interface: LED Code
- Temperature Management: By connecting a 47kΩ NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.

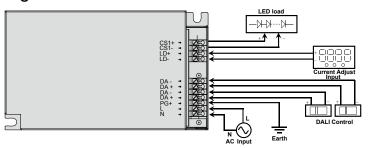
Model Specifications-MU050A105AQI0 (DALI, 1ch)







Schematic Diagram



LED Driver
- General Serie
- Outdoor Use
- H Series Class II

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Series

ED Driver Intelligent Series 30W Intelligent Series

LED Driver

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Serie:
- Other Series

General
Power Supplie
- MF Series

SPI

Numberin System

Quick

LED Driver - General Series - Outdoor Use - H Series Class I - H Series Class II

- General Series - Outdoor Use - Half Potted Series
- LED Driver
 General Serie
 Outdoor Use
 A Series
- LED Driver
 General Serie
 Outdoor Use
 Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
 Intelligent Series
 50W Intelligent Series
- LED Driver
 Intelligent Series
 96W Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
 General
- MF Series

SPD

50W Intelligent Series - MU050A105AQI01(DALI,1ch)

Features

- · Adjustable current range from 200mA to 1050mA
- Flicker-free dimming from 100%to0.1%,Logarithmic dimming curve
- DALI dimming control, 1ch
- · Slim size, high performance, high reliability
- CUL/CE
- 5-year warranty



440 × 30 × 21mm

Electrical Specifications

Input voltage range	100~277VAC
Frequency	47~63Hz
Input current	0.7A(MAX)
Rated power	50W
Power factor	0.99 at 110VAC; 0.98 at 220VAC (typical)
Efficiency	87% (typical)
Output voltage range	2.5~50VDC
Output current range	200mA~1050mA (settable)
Protections	Over voltage, short circuit, over temperature: auto recovery

Environmental Specifications

Operating temperature	-20℃ ~ +60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Life Time	50,000 hours at 50°C ambient
Reference dimension (L x W x H)	444 × 30 × 21 (mm)

Safety & EMC Compliance

UL / CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347.1; EN61347-2-13
Conducted emissions	CISPR15 Class B; EN55015 ; FCC part15 ClassB;
Radiated emissions	CISPR15 Class B; EN55015 ; FCC part15 ClassB;
Harmonic current emission	IEC / EN61000-3-2 Class C
Electromagnetic immunity	IEC / EN61547

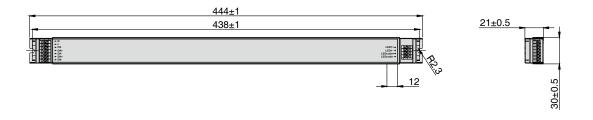
Function Description

• Adjustable current output:

The current output can programmed in 1mA steps from 200 mA to 1050 mA.

This programming can be done at the factory or in the customers place of business.

- Resolution: 20 bit resolution Max
- Dimming: Supports a wide range of dimming from 0.1% to 100% with linear or Logarithmic dimming curve & flicker-free at all levels.
- High Efficiency: 87% (typical)
- Interface: LED Code
- Temperature Management: By connecting a $47k\Omega$ NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.





lumberin System

Quick Selection

LED Driver - General Series - Outdoor Use - H Series Class I - H Series Class II

- Outdoor Use - Half Potted Series
- Outdoor Use - A Series
- LED Driver - Outdoor Use
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Serie - Other Series General Power Supplies

SPD

50W Intelligent Series - MU050A105BQI0 (DALI, 2chs)

Features

- Adjustable current range from 200mA to 1050mA
- Flicker-free dimming from 100%to0.1%,Logarithmic dimming curve
- DALI dimming control, 2chs
- · Compact size, high performance, high reliability
- CUL/CE/PSE/VDE
- 5-year warranty



130 × 76 × 30mm

Electrical Specifications

Input voltage range	100~277VAC
Frequency	43~67Hz
Input current	0.7A(MAX)
Rated power	50W
Power factor	0.98 at 110VAC; 0.94 at 220VAC (typical)
Efficiency	89% (typical) at 220 VAC; 87% (typical) at 110 VAC
Output voltage range	2.5~50VDC
Output current range	200mA~1050mA (settable)
Protections	Over voltage, short circuit, over temperature: auto recovery

Environmental Specifications

Operating temperature	-20℃ ~ +50℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Life Time	50,000 hours at 50°C ambient
Reference dimension (L x W x H)	130 × 76 × 30 (mm)

Safety & EMC Compliance

CUL	UL8750, UL1310
CE	EN61347-1, EN61347-2-13
PSE	J61347-1, J61347-2-13, J55015
Conducted emissions	FCC Level B / EN55015
Radiated emissions	FCC Level B / EN55015
Electromagnetic immunity	EN61547

Function Description

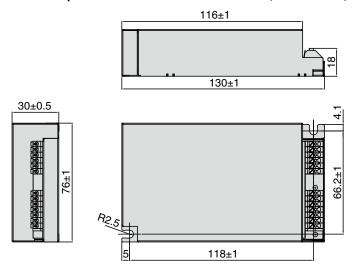
• Adjustable current output:

The current output can programmed in 1 mA steps from 200 mA to 1050 mA.

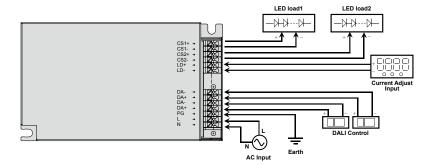
This programming can be done at the factory or in the customers place of business.

- Resolution: 20 bit resolution
- Dimming: Supports a wide range of dimming from 0.1% to 100% with linear or Logarithmic dimming curve & flicker-free at all levels.
- High Efficiency: 89% over a wide power range
- Interface: LED Code
- Temperature Management: By connecting a 47kΩ NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.

Model Specifications-MU050A105BQI0 (DALI, 2chs)



Schematic Diagram



LED Driver
- General Serie
- Outdoor Use
- H Series Class I
- H Series Class II

- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

Outdoor Use

DALI Intelligent Series

ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series

General
Power Supplie
- MF Series

SPI

.

Features

- · Adjustable current range from 200mA to 1050mA
- Flicker-free dimming from 100%to0.1%,Logarithmic dimming curve

50W Intelligent Series - MU050A105BQI01(DALI,2chs)

- DALI dimming control, 2chs
- · Slim size, high performance, high reliability
- CUL/CE
- 5-year warranty



444 × 30 × 21 mm

Electrical Specifications

Input voltage range	100~277VAC
Frequency	47~63Hz
Input current	0.7A(MAX)
Rated power	50W
Power factor	0.95 at 110VAC; 0.92 at 220VAC (typical)
Efficiency	87% (typical)
Output voltage range	2.5~50VDC
Output current range	200mA~1050mA (settable)
Protections	Over voltage, short circuit, over temperature: auto recovery

Environmental Specifications

Operating temperature	-20℃ ~ +60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Life Time	50,000 hours at 50°C ambient
Reference dimension (L x W x H)	444 × 30 × 21 (mm)

Safety & EMC Compliance

UL / CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347.1; EN61347-2-13
Conducted emissions	CISPR15 Class B; EN55015 ; FCC part15 ClassB;
Radiated emissions	CISPR15 Class B; EN55015 ; FCC part15 ClassB;
Harmonic current emission	IEC / EN61000-3-2 Class C
Electromagnetic immunity	IEC / EN61547

Function Description

• Adjustable current output:

The current output can programmed in 1mA steps from 200 mA to 1050 mA.

This programming can be done at the factory or in the customers place of business.

- Resolution: 20 bit resolution Max
- Dimming: Supports a wide range of dimming from 0.1% to 100% with linear or Logarithmic dimming curve & flicker-free at all levels.
- High Efficiency: 87% (typical)
- Interface: LED Code
- Temperature Management: By connecting a 47k Ω NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.





Features

- · Adjustable current range from 200mA to 1050mA
- Flicker-free dimming from 100%to0.1%,Logarithmic dimming curve
- DALI dimming control,2chs
- · Compact size, high performance, high reliability
- CUL/CE/PSE
- 5-year warranty



Electrical Specifications

Input voltage range	100~277VAC
Frequency	43~67Hz
Input current	0.7A(MAX)
Rated power	50W
Power factor	0.98 at 110VAC; 0.94 at 220VAC (typical)
Efficiency	89% (typical) at 220 VAC; 87% (typical) at 110 VAC
Output voltage range	2.5~50VDC
Output current range	200mA~1050mA (settable)
Protections	Over voltage, short circuit, over temperature: auto recovery

Environmental Specifications

Operating temperature	-20℃ ~ +50℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Life Time	50,000 hours at 50°C ambient
Reference dimension (L x W x H)	130 × 76 × 30 (mm)

Safety & EMC Compliance

CUL	UL8750, UL1310
CE	EN61347-1, EN61347-2-13
PSE	J61347-1, J61347-2-13, J55015
Conducted emissions	FCC Level B / EN55015
Radiated emissions	FCC Level B / EN55015
Electromagnetic immunity	EN61547

Function Description

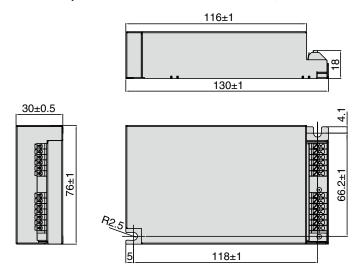
• Adjustable current output:

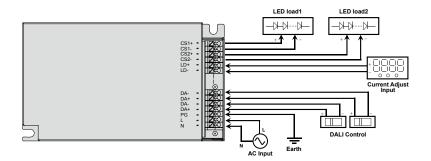
The current output can programmed in 1 mA steps from 200 mA to 1050 mA.

This programming can be done at the factory or in the customers place of business.

- Resolution: 20 bit resolution
- Dimming: Supports a wide range of dimming from 0.1% to 100% with linear or Logarithmic dimming curve & flicker-free at all levels.
- High Efficiency: 89% over a wide power range
- Interface: LED Code
- Temperature Management: By connecting a 47kΩ NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.

Model Specifications-MU050A105BQI2 (DALI, 2chs, each channel is independent)





Numberin System

Quick

LED Driver - General Series - Outdoor Use - H Series Class I - H Series Class II

- General Series
 Outdoor Use
 Half Potted Series
- Outdoor Use - A Series
- LED Driver
 Outdoor Use
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Serie
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 96W Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
 General
- Power Supplies - MF Series

SPD

50W Intelligent Series - MU050A105BQI21 (DALI,2chs,each channel is independent)

Features

- Adjustable current range from 200mA to 1050mA
- Flicker-free dimming from 100% to 0.1%, Logarithmic dimming curve
- DALI dimming control, 2chs
- · Slim size, high performance, high reliability
- CUL/CE
- 5-year warranty



444 × 30 × 21 mm

Electrical Specifications

Input voltage range	100~277VAC
Frequency	47~63Hz
Input current	0.7A(MAX)
Rated power	50W
Power factor	0.95 at 110VAC; 0.92 at 220VAC (typical)
Efficiency	87% (typical)
Output voltage range	2.5~50VDC
Output current range	200mA~1050mA (settable)
Protections	Over voltage, short circuit, over temperature: auto recovery

Environmental Specifications

Operating temperature	-20℃ ~ +60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Life Time	50,000 hours at 50°C ambient
Reference dimension (L x W x H)	444 × 30 × 21 (mm)

Safety & EMC Compliance

UL / CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347.1; EN61347-2-13
Conducted emissions	CISPR15 Class B; EN55015 ; FCC part15 ClassB;
Radiated emissions	CISPR15 Class B; EN55015 ; FCC part15 ClassB;
Harmonic current emission	IEC / EN61000-3-2 Class C
Electromagnetic immunity	IEC / EN61547

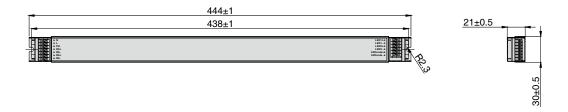
Function Description

• Adjustable current output:

The current output can programmed in 1mA steps from 200 mA to 1050 mA.

This programming can be done at the factory or in the customers place of business.

- Resolution: 20 bit resolution Max
- Dimming: Supports a wide range of dimming from 0.1% to 100% with linear or Logarithmic dimming curve & flicker-free at all levels.
- High Efficiency: 87% (typical)
- Interface: LED Code
- Temperature Management: By connecting a 47k Ω NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.





lumberin System

Quick

LED Driver - General Series - Outdoor Use - H Series Class I - H Series Class II

- General Series - Outdoor Use - Half Potted Series
- General Serie - Outdoor Use - A Series
- I ED Driver

- LED Driver
 Intelligent Seri
- LED Driver
 Intelligent Series
 40W Intelligent Serie
- LED Driver
 Intelligent Serie:
 50W Intelligent Serie
- LED Driver
 Intelligent Series
 96W Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
- Power Supplies - MF Series

SPD

Appendix

50W Intelligent Series - MU050A105AQI3 (0-10V, 1ch)

Features

- · Adjustable current range from 200mA to 1050mA
- Flicker-free dimming from 100%to0.1%,Logarithmic dimming curve
- Isolated 0-10V dimming control,1ch
- · Compact size, high performance, high reliability
- CUL/CE
- 5-year warranty



130 × 76 × 30mm

Electrical Specifications

Input voltage range	100~277VAC
Frequency	43~67Hz
Input current	0.7A(MAX)
Rated power	50W
Power factor	0.98 at 110VAC; 0.94 at 220VAC (typical)
Efficiency	89% (typical) at 220 VAC; 87% (typical) at 110 VAC
Output voltage range	2.5~50VDC
Output current range	200mA~1050mA (settable)
Protections	Over voltage, short circuit, over temperature: auto recovery

Environmental Specifications

Operating temperature	-20℃ ~ +50℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Life Time	50,000 hours at 50°C ambient
Reference dimension (L x W x H)	130 × 76 × 30 (mm)

Safety & EMC Compliance

CUL	UL8750, UL1310
CE	EN61347-1, EN61347-2-13
Conducted emissions	FCC Level B / EN55015
Radiated emissions	FCC Level B / EN55015
Electromagnetic immunity	EN61547

Function Description

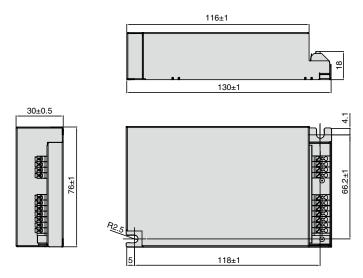
• Adjustable current output:

The current output can programmed in 1 mA steps from 200 mA to 1050 mA.

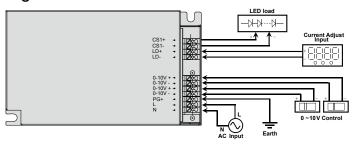
This programming can be done at the factory or in the customers place of business.

- Resolution: 20 bit resolution
- Dimming: Supports a wide range of dimming from 0.1% to 100% with linear or Logarithmic dimming curve & flicker-free at all levels.
- High Efficiency: 89% over a wide power range
- Interface: LED Code
- Temperature Management: By connecting a $47k\Omega$ NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.

Model Specifications-MU050A105AQI3 (0-10V, 1ch, isolated)



Schematic Diagram



LED Driver
- General Serie
- Outdoor Use
- H Series Class I
- H Series Class II

- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

- Outdoor Use
- DALI Intelligent Series

ED Driver ntelligent Series

LED Driver
Intelligent Series
40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series
- Other Series

General
Power Supplie
- MF Series

SPI

Appendi

lumberin System

Quick

LED Driver - General Series - Outdoor Use - H Series Class I - H Series Class II

- General Series - Outdoor Use - Half Potted Series

- General Series - Outdoor Use - Other Series





LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series
General

- MF Senes

SPD

50W Intelligent Series - MU050A105AQI31(0-10V,1ch)

Features

- · Adjustable current range from 200mA to 1050mA
- Flicker-free dimming from 100% to 0.1%, Logarithmic dimming curve
- Isolated 0-10V dimming control, 1ch
- · Slim size, high performance, high reliability
- CUL/CE
- 5-year warranty



440 × 30 × 21 mm

Electrical Specifications

Input voltage range	100~277VAC
Frequency	47~63 Hz
Input current	0.7A(MAX)
Rated power	50W
Power factor	0.95 at 110VAC; 0.92 at 220VAC (typical)
Efficiency	87% (typical)
Output voltage range	2.5~50VDC
Output current range	200mA~1050mA (settable)
Protections	Over voltage, short circuit, over temperature: auto recovery

Environmental Specifications

Operating temperature	-20℃ ~ +60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Life Time	50,000 hours at 50°C ambient
Reference dimension (L x W x H)	444 × 30 × 21 (mm)

Safety & EMC Compliance

UL / CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347.1; EN61347-2-13
Conducted emissions	CISPR15 Class B; EN55015 ; FCC part15 ClassB;
Radiated emissions	CISPR15 Class B; EN55015 ; FCC part15 ClassB;
Harmonic current emission	IEC / EN61000-3-2 Class C
Electromagnetic immunity	IEC / EN61547

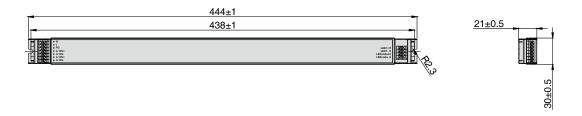
Function Description

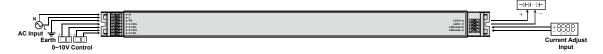
• Adjustable current output:

The current output can programmed in 1mA steps from 200 mA to 1050 mA.

This programming can be done at the factory or in the customers place of business.

- Resolution: 20 bit resolution Max
- Dimming: Supports a wide range of dimming from 0.1% to 100% with linear or Logarithmic dimming curve& flicker-free at all levels.
- High Efficiency: 87% (typical)
- Interface: LED Code
- Temperature Management: By connecting a 47k Ω NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.





lumberin System

Quick

LED Driver - General Series - Outdoor Use - H Series Class I - H Series Class II

LED Driver - General Series - Outdoor Use - Half Potted Series

- LED Driver
 General Series
 Outdoor Use
- General Serie - Outdoor Use - Other Series
- LED Driver
 Outdoor Use
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
 Intelligent Series
 50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Series
- Other Series

General
Power Supplies

SPD

50W Intelligent Series - MU050A105BQI3(0-10V, 2chs)

Features

- · Adjustable current range from 200mA to 1050mA
- Flicker-free dimming from 100% to 0.1%, Logarithmic dimming curve
- Isolated 0-10V dimming control, 2chs
- · Compact size, high performance, high reliability
- CUL/CE
- 5-year warranty



 $130 \times 76 \times 30$ mm

Electrical Specifications

Input voltage range	100~277VAC
Frequency	43~67Hz
Input current	0.7A(MAX)
Rated power	50W
Power factor	0.98 at 110VAC; 0.94 at 220VAC (typical)
Efficiency	89% (typical) at 220 VAC; 87% (typical) at 110 VAC
Output voltage range	2.5~50VDC
Output current range	200mA~1050mA (settable)
Protections	Over voltage, short circuit, over temperature: auto recovery

Environmental Specifications

Operating temperature	-20℃ ~ +50℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Life Time	50,000 hours at 50°C ambient
Reference dimension (L x W x H)	130 × 76 × 30 (mm)

Safety & EMC Compliance

CUL	UL8750, UL1310
CE	EN61347-1, EN61347-2-13
Conducted emissions	FCC Level B / EN55015
Radiated emissions	FCC Level B / EN55015
Electromagnetic immunity	EN61547

Function Description

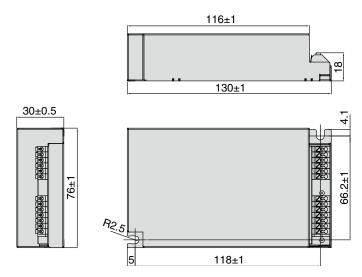
• Adjustable current output:

The current output can programmed in 1 mA steps from 200 mA to 1050 mA.

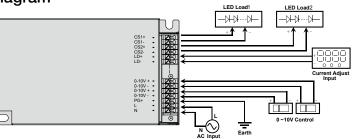
This programming can be done at the factory or in the customers place of business.

- Resolution: 20 bit resolution
- Dimming: Supports a wide range of dimming from 0.1% to 100% with linear or Logarithmic dimming curve & flicker-free at all levels.
- High Efficiency: 89% over a wide power range
- Interface: LED Code
- Temperature Management: By connecting a $47k\Omega$ NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.

Model Specifications-MU050A105BQI3 (0-10V, 2chs, isolated)



Schematic Diagram



LED Driver
- General Series
- Outdoor Use
- H Series Class I
- H Series Class II

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

- Outdoor Use
- DALI Intelligent Series

ED Driver Intelligent Series 30W Intelligent Series

LED Driver
Intelligent Series
40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Serie
- Other Series

General
Power Supplie
- MF Series

SP

.

50W Intelligent Series - MU050A105BQI31(0-10V, 2chs)

Features

- · Adjustable current range from 200mA to 1050mA
- Flicker-free dimming from 100% to 0.1%, Logarithmic dimming curve
- Isolated 0-10V dimming control, 2chs
- · Slim size, high performance, high reliability
- CUL/CE
- 5-year warranty



444 × 30 × 21 mm

Electrical Specifications

Input voltage range	100~277VAC
Frequency	47~63Hz
Input current	0.7A(MAX)
Rated power	50W
Power factor	0.95 at 110VAC; 0.92 at 220VAC (typical)
Efficiency	87% (typical)
Output voltage range	2.5~50VDC
Output current range	200mA~1050mA (settable)
Protections	Over voltage, short circuit, over temperature: auto recovery

Environmental Specifications

Operating temperature	-20℃ ~ +60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Life Time	50,000 hours at 50°C ambient
Reference dimension (L x W x H)	444 × 30 × 21 (mm)

Safety & EMC Compliance

UL / CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347.1; EN61347-2-13
Conducted emissions	CISPR15 Class B; EN55015 ; FCC part15 ClassB;
Radiated emissions	CISPR15 Class B; EN55015 ; FCC part15 ClassB;
Harmonic current emission	IEC / EN61000-3-2 Class C
Electromagnetic immunity	IEC / EN61547

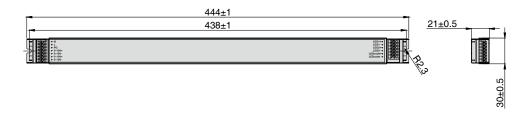
Function Description

• Adjustable current output:

The current output can programmed in 1mA steps from 200 mA to 1050 mA.

This programming can be done at the factory or in the customers place of business.

- Resolution: 20 bit resolution Max
- Dimming: Supports a wide range of dimming from 0.1% to 100% with linear or Logarithmic dimming curve & flicker-free at all levels.
- High Efficiency: 87% (typical)
- Interface: LED Code
- Temperature Management: By connecting a 47k Ω NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.





lumbering System

Quick

LED Driver - General Series - Outdoor Use - H Series Class I - H Series Class II

- Outdoor Use - Half Potted Series

- General Series - Outdoor Use - A Series
- Outdoor Use - Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Sea
- LED Driver
 Intelligent Serie
 30W Intelligent Ser
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
 Intelligent Series
 50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Series
- Other Series

General

SPD

50W Intelligent Series - MU050A105CQI6 (DMX, 3chs)

Features

- · Adjustable current range from 200mA to 1050mA
- Flicker-free dimming from 100% to 0.1%, gamma-corrected curve
- DMX dimming control,3chs
- Compact size, high performance, high reliability
- CUL/CE/PSE/VDE
- 5-year warranty



130 × 76 × 30mm

Electrical Specifications

Input voltage range	100~277VAC
Frequency	43~67Hz
Input current	0.7A(MAX)
Rated power	50W
Power factor	0.98 at 110VAC; 0.94 at 220VAC (typical)
Efficiency	89% (typical) at 220 VAC; 87% (typical) at 110 VAC
Output voltage range	2.5~50VDC
Output current range	200mA~1050mA (settable)
Protections	Over voltage, short circuit, over temperature: auto recovery

Environmental Specifications

Operating temperature	-20℃ ~ +60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Life Time	50,000 hours at 50°C ambient
Reference dimension (L x W x H)	130 × 76 × 30 (mm)

Safety & EMC Compliance

CUL	UL8750, UL1310
CE	EN61347-1, EN61347-2-13
PSE	J61347-1, J61347-2-13, J55015
Conducted emissions	FCC Level B / EN55015
Radiated emissions	FCC Level B / EN55015
Electromagnetic immunity	EN61547

Function Description

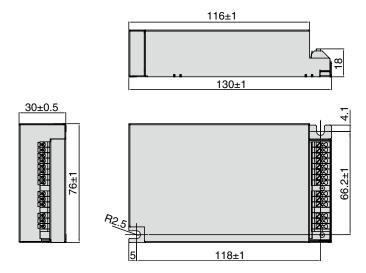
• Adjustable current output:

The current output can programmed in 1 mA steps from 200 mA to 1050 mA.

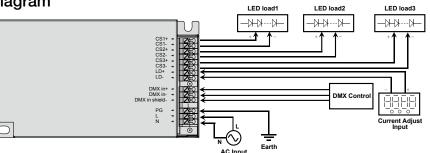
This programming can be done at the factory or in the customers place of business.

- Resolution: 20 bit resolution
- Dimming: Supports a wide range of dimming from 0.1% to 100% with linear or gamma corrected dimming curve & flicker-free at all levels.
- High Efficiency: 89% over a wide power range
- Interface: LED Code
- Temperature Management: By connecting a $47k\Omega$ NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.

Model Specifications-MU050A105CQI6 (DMX, 3chs)



Schematic Diagram



LED Driver
- General Series
- Outdoor Use
- H Series Class I
- H Series Class II

- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Serie

ED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Serie

General
Power Supplie
- MF Series

SPI

lumberin System

Quick

LED Driver - General Series - Outdoor Use - H Series Class I - H Series Class II

- General Series - Outdoor Use - Half Potted Series
- Outdoor Use - A Series
- LED Driver - Outdoor Use
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 96W Intelligent Series
- LED Driver - Intelligent Series - Other Series General

- MF Series

Features

- · Adjustable current range from 200mA to 1050mA
- Flicker-free dimming from 100% to 0.1%, gamma-corrected curve

50W Intelligent Series - MU050A105DQI61(DMX,4chs)

- DMX dimming control,4chs
- · Slim size, high performance, high reliability
- CUL/CE
- 5-year warranty



444 × 30 × 21mm

Electrical Specifications

Input voltage range	100~277VAC
Frequency	47~63Hz
Input current	0.7A(MAX)
Rated power	50W
Power factor	0.95 at 110VAC; 0.92 at 220VAC (typical)
Efficiency	87% (typical)
Output voltage range	2.5~50VDC
Output current range	200mA~1050mA (settable)
Protections	Over voltage, short circuit, over temperature: auto recovery

Environmental Specifications

Operating temperature	-20℃ ~ +60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Life Time	50,000 hours at 50°C ambient
Reference dimension (L x W x H)	444 × 30 × 21 (mm)

Safety & EMC Compliance

UL / CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347.1; EN61347-2-13
Conducted emissions	CISPR15 Class B; EN55015 ; FCC part15 ClassB;
Radiated emissions	CISPR15 Class B; EN55015; FCC part15 ClassB;
Harmonic current emission	IEC / EN61000-3-2 Class C
Electromagnetic immunity	IEC / EN61547

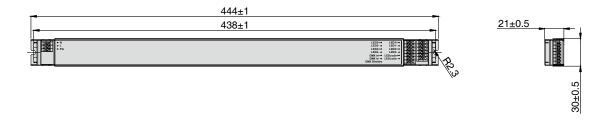
Function Description

• Adjustable current output:

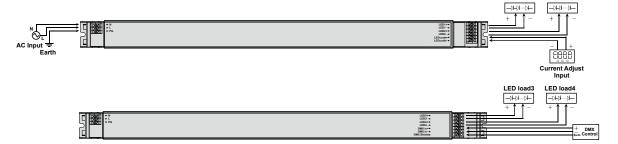
The current output can programmed in 1mA steps from 200 mA to 1050 mA.

This programming can be done at the factory or in the customers place of business.

- Resolution: 20 bit resolution Max
- Dimming: Supports a wide range of dimming from 0.1% to 100% with linear or gamma corrected dimming curve & flicker-free at all levels.
- High Efficiency: 87% (typical)
- Interface: LED Code
- Temperature Management: By connecting a 47k Ω NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.



Schematic Diagrams



Numbe System

> Quick Selection

LED Driver
- General Serie
- Outdoor Use
- H Series Class I

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver - General Series - Outdoor Use - A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Serie

LED Driver Intelligent Series 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series

General
Power Supplie
- MF Series

SPI

Appendi

umbering ystem

Quick Selection

LED Driver - General Series - Outdoor Use - H Series Class I - H Series Class II

- Outdoor Use - Half Potted Series LED Driver

- Outdoor Use - A Series LED Driver
- LED Driver
 Outdoor Use
 DALI Intelligent Seri
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 96W Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
- SPD

50W Intelligent Series - MU050I150BQI8 (DALI DT8, 2chs)

Features

- · Comply with Class 2 Power supply safety standards
- Comply with IEC62386-102(2.0), IEC62386-207 and IEC62386-209
- · Constant current LED driver
- Support DALI type 8 colour temperature adjustment
- Support DALI type 6 and the number of DALI address configurable (1/2 addresses)
- 2 LED channels, output current can be changed from 200mA to 1500mA
- Constant power maximum is 50W
- Dimming range 0.1%~100%
- Push Dimming for intensity and colour control.
- Protection comply with IP20
- 5-year warranty

Electrical Specifications



130 × 76 × 30mm

Input voltage range	100 - 277 V	
' ' '	11	
Frequency	50 / 60 HZ	
Input current	<15A	
Rated power	50W	
Power factor	>0.95 (230V,50HZ,full loaded)	
Effiency	88 - 90 % (230V,50HZ,full loaded)	
Output voltage range	8 - 50 V	
Output current range	200-1500mA	
Protections	Thermal protection, short-circuit protection, no-load protection, over-power protection	

Environmental Specifications

Operating temperature	-25℃ - +49℃
Storage temperature	-40℃ - +85℃
Maximum case temperature	84℃
Cooling method	Convection
Life time	50,000 hours at tc 72℃ ambient
Reference dimension(LxWxH)	130 × 76 × 30 mm

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

• Alternative DALI device type(default type 8).

You can select DALI type 6 or type 8 with Smartkey and DALI Configurator.

• DALI device type 8 software for tunable white(2500k-6500k).

You can set the CT range(coldest and warmest) with Smartkey and DALI Configurator.

• DALI device type 6

You can set dual DALI addressable or solo DALI addressable output channels with Smartkey and DALI Configuarator.

Switch DIM (with memory function)---push dimming

SwitchDIM means that you can use two lines to connect L and N to DA+ and DA- respectively, and add a switch in series to either of the two lines to complete the function of ON/OFF and dimming. Short press(<0.6s) can turn on/off the driver, and long press can adjust the dimming level. When several drivers are connected together and controlled by one switch, press the switch for 10s, all the drivers are dimmed to 50% at the same time.

Color DIM(Switch-Control for the colour temperature)---push dimming

The control of Colour temperature is initiated with a press and hold of the light level up to the maximum, holding it at maximum level. After a holding period of 6 seconds on full intensity the driver starts to change the colour temperature of the white light.

MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configurator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DALI address, scene modes etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

. Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110 $^{\circ}$ C, output current will be decreased to 50%. And it cannot recover until the temperature drops to 70 $^{\circ}$ C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

If the total power of two channels exceeds 60W, the output current of each channel will decrease to 50%.

DALI Signal Abnormality

If the signal of DALI is abnormal, including open-circuit and short-circuit, the output will recover to the preset maxium value.

Online Update

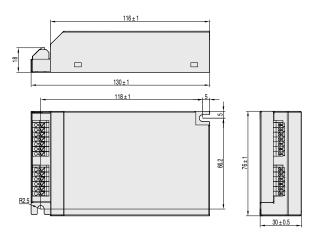
Use smart key to connect PC and the driver to update the firmware.

Please refer to the specification of Smart key.

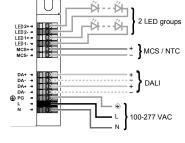
• Daisy-Chain

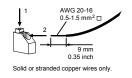
DALI dimming ports has 2 groups of DA+ and DA-, which support daisy-chain.

Mechanical Outline (unit: mm)



Schematic Diagram





Number System

Quick

- General Serie
- Outdoor Use
- H Series Class I
- H Series Class II

- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Serie

ED Driver
Intelligent Series
30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series
- Other Series

General Power Supplie - MF Series

SPD

Appendi

lumbering System

Quick

LED Driver - General Series - Outdoor Use - H Series Class I

- LED Driver
 General Series
 Outdoor Use
 Half Potted Series
- LED Driver
 General Serie
 Outdoor Use
 A Series
- General Serie - Outdoor Use - Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 96W Intelligent Series
- LED Driver
 Intelligent Serie
 Other Series
- General
- MF Series

SPD

50W Intelligent Series - MU050I150BQI2 (DALI, 2chs)

Features

- · Compliant with Class 2 Power supply safety standards
- · Constant current LED driver
- Default DALI type 6, 2 addresses
- 2 LED channels, output current can be changed from 200mA to 1500mA
- · Constant power maximum is 50W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



 $130 \times 76 \times 30$ mm

Electrical Specifications

Input voltage range	100 - 277 V	
Frequency	50 / 60 HZ	
Input current	<15A	
Rated power	50W	
Power factor	>0.95 (230V,50HZ,full loaded)	
Effiency	88 - 90 % (230V,50HZ,full loaded)	
Output voltage range	8 - 50 V	
Output current range	200-1500mA	
Protections	Thermal protection, short-circuit protection, no-load protection, over-power protection	

Environmental Specifications

Operating temperature	-25℃ - +49℃
Storage temperature	-40℃ - +85℃
Maximum case temperature	84℃
Cooling method	Convection
Life time	50,000 hours at tc 72°C ambient
Reference dimension(LxWxH)	130 × 76 × 30 mm

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

DALI type 6

DA+ and DA- are both the interfaces of DALI. You can set dual DALI addressable or solo DALI addressable output channels with Smartkey and DALI Configurator.

· SwitchDIM (with memory function)---push dimming

SwitchDIM means that you can use two lines to connect L and N to DA+ and DA- respectively, and add a switch in series to either of the two lines to complete the function of ON/OFF and dimming. Short press(<0.6s) can turn on/off the driver, and long press can adjust the dimming level. When several drivers are connected together and controlled by one switch, press the switch for 10s, all the drivers are dimmed to 50% at the same time.

· MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configurator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DALI address, scene modes etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110 $^{\circ}$ C, output current will be decreased to 50%. And it cannot recover until the temperature drops to 70 $^{\circ}$ C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

If the total power of two channels exceeds 60W, the output current of each channel will decrease to 50%.

DALI Signal Abnormality

If the signal of DALI is abnormal, including open-circuit and short-circuit, the output will recover to the preset maxium value.

• Online Update

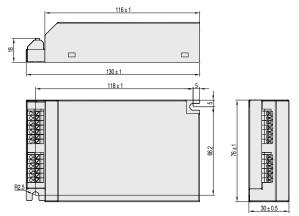
Use smart key to connect PC and the driver to update the firmware.

Please refer to the specification of Smart key.

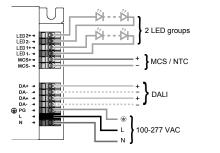
• Daisy-Chain

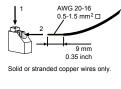
DALI dimming ports has 2 groups of DA+ and DA-, which support daisy-chain.

Mechanical Outline (unit: mm)



Schematic Diagram





Number System

Quick

LED Driver
- General Serie
- Outdoor Use
- H Series Class II

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver - Outdoor Use - DALI Intelligent Serie

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Series

LED Driver - Intelligent Series

General Power Supplie

SPI

Append

Numbering System

Quick

LED Driver - General Series - Outdoor Use - H Series Class I

- LED Driver
 General Series
 Outdoor Use
- LED Driver
 General Serie
 Outdoor Use
- LED Driver
 General Serie
 Outdoor Use
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series

LED Driver - Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Serie
- Other Series

Power Supplies

SPD

.

50W Intelligent Series - MU050I180AQI3 (DALI,1ch,Aux Output)

Features

- · Compliant with Class 2 Power supply safety standards
- Constant current LED driver
- Support DALI type 6
- 1 LED channel, output current can be changed from 200mA to 1800mA
- Auxiliary Output Voltage 12V,MAX Output Current 150mA
- Constant power maximum is 50W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



130 × 76 × 30mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<15A
Rated power	50W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	88 - 90 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1800mA
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection
	•

Environmental Specifications

Operating temperature	-25℃ - +49℃
Storage temperature	-40℃ - +85℃
Maximum case temperature	84℃
Cooling method	Convection
Life time	50,000 hours at tc 72°C ambient
Reference dimension(LxWxH)	130 × 76 × 30 mm

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
/oltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

• DALI type 6

DA+ and DA- are both the interfaces of DALI.

· SwitchDIM (with memory function)---push dimming

SwitchDIM means that you can use two lines to connect L and N to DA+ and DA- respectively, and add a switch in series to either of the two lines to complete the function of ON/OFF and dimming. Short press(<0.6s) can turn on/off the driver, and long press can adjust the dimming level. When several drivers are connected together and controlled by one switch, press the switch for 10s, all the drivers are dimmed to 50% at the same time.

· MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configurator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DALI address, scene modes etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110° C, output current will be decreased to 50%. And it cannot recover until the temperature drops to 70° C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

If the total power of two channels exceeds 60W, the output current of each channel will decrease to 50%.

· DALI Signal Abnormality

If the signal of DALI is abnormal, including open-circuit and short-circuit, the output will recover to the preset maxium value.

· Online Update

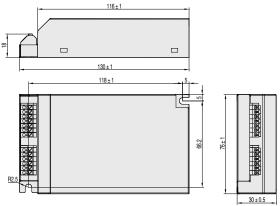
Use smart key to connect PC and the driver to update the firmware.

Please refer to the specification of Smart key.

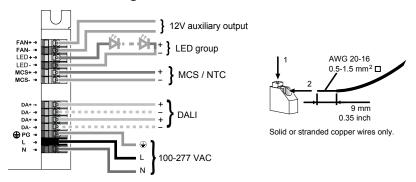
· Daisy-Chain

DALI dimming ports has 2 groups of DA+ and DA-, which support daisy-chain.

Mechanical Outline (unit: mm)



Schematic Diagram



Number

Quick Selectiv

- General Serie
- Outdoor Use
- H Series Class I
- H Series Class II

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Serie
- Outdoor Use

LED Driver
- General Series
- Outdoor Use

LED Driver - Outdoor Use - DALI Intelligent Serie

ED Driver
Intelligent Series
30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Series

- Intelligent Serie: - Other Series

Power Supplie - MF Series

SPI

Appendi

lumbering system

Quick Selection

LED Driver General Series Outdoor Use H Series Class I H Series Class II

- LED Driver
 General Series
 Outdoor Use
 Half Potted Series
- General Serie - Outdoor Use - A Series
- LED Driver
 General Serie
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
- General Power Supplies
- SPD

Annandiy

50W Intelligent Series - MU050I180AQI2 (DALI, 1ch)

Features

- · Compliant with Class 2 Power supply safety standards
- · Constant current LED driver
- Support DALI type 6
- 1 LED channel, output current can be changed from 200mA to 1800mA
- · Constant power maximum is 50W
- Normal life time is 50000 hours (at the case's temperature of $72^{\circ}C$)
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



130 × 76 × 30mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<15A
Rated power	50W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	88 - 90 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1800mA
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection

Environmental Specifications

Operating temperature	-25℃ - +49℃
Storage temperature	-40℃ - +85℃
Maximum case temperature	84℃
Cooling method	Convection
Life time	50,000 hours at tc 72°C ambient
Reference dimension(LxWxH)	130 × 76 × 30 mm

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

• DALI type 6

DA+ and DA- are both the interfaces of DALI.

SwitchDIM (with memory function)---push dimming

SwitchDIM means that you can use two lines to connect L and N to DA+ and DA- respectively, and add a switch in series to either of the two lines to complete the function of ON/OFF and dimming. Short press(<0.6s) can turn on/off the driver, and long press can adjust the dimming level. When several drivers are connected together and controlled by one switch, press the switch for 10s, all the drivers are dimmed to 50% at the same time.

· MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configuarator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DALI address, scene modes etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110° C, output current will be decreased to 50%. And it cannot recover until the temperture drops to 70° C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. **No-load Protection**

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot pluain.

Over-Power Protection

If the total power exceeds 60W, the output current of each channel will decrease to 50%.

· DALI Signal Abnormality

If the signal of DALI is abnormal, including open-circuit and short-circuit, the output will recover to the preset maxium value.

· Online Update

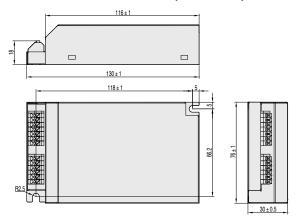
Use smart key to connect PC and the driver to update the firmware.

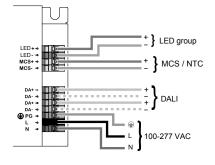
Please refer to the specification of Smart key.

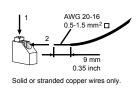
· Daisy-Chain

DALI dimming ports has 2 groups of DA+ and DA-, which support daisy-chain.

Mechanical Outline (unit: mm)







Numbering System

Quick

LED Driver - General Series - Outdoor Use - H Series Class I

- LED Driver
 General Series
 Outdoor Use
- General Serie - Outdoor Use
- General Serie - Outdoor Use - Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
- LED Driver
 Intelligent Series
 40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Serie
- Other Series

- MF Series

J. D

ppendix

50W Intelligent Series - MU050I180AQI22 (DALI, 1ch)

Features

- Compliant with Class 2 Power supply safety standards
- Constant current LED driver
- Support DALI type 6
- 1 LED channel, output current can be changed from 200mA to 1800mA
- Constant power maximum is 50W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



130 × 76 × 30mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<15A
Rated power	50W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	88 - 90 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1800mA
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection

Environmental Specifications

Operating temperature	-25 - 58℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	85℃
Cooling method	Convection
Life time	50,000 hours at tc 78℃ ambient
Reference dimension(LxWxH)	126 × 76 × 30 mm

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

• DALI type 6

DA+ and DA- are both the interfaces of DALI.

• SwitchDIM (with memory function)---push dimming

SwitchDIM means that you can use two lines to connect L and N to DA+ and DA- respectively, and add a switch in series to either of the two lines to complete the function of ON/OFF and dimming. Short press(<0.6s) can turn on/off the driver, and long press can adjust the dimming level. When several drivers are connected together and controlled by one switch, press the switch for 10s, all the drivers are dimmed to 50% at the same time.

· MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configurator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DALI address, scene modes etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

• Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110° C, output current will be decreased to 50%. And it cannot recover until the temperature drops to 70° C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

If the total power exceeds 60W, the output current of each channel will decrease to 50%.

DALI Signal Abnormality

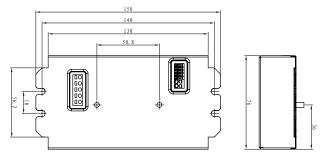
If the signal of DALI is abnormal, including open-circuit and short-circuit, the output will recover to the preset maxium value.

Online Update

Use smart key to connect PC and the driver to update the firmware.

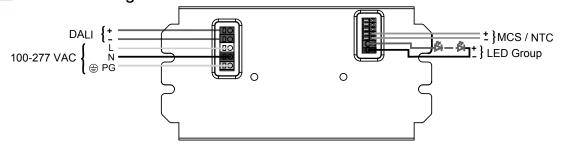
Please refer to the specification of Smart key.

■ Mechanical Outline (unit: mm)





Schematic Diagram



Numbe System

Quick

- General Serie
- Outdoor Use
- H Series Class I

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use

LED Driver - Outdoor Use - DALI Intelligent Serie

> ED Driver ntelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Serie
- Other Series

General
Power Supplie

SP

Appendi

Numbering System

Quick Selection

LED Driver General Series Outdoor Use H Series Class I

LED Driver - General Series - Outdoor Use

LED Driver - Outdoor Use - DALI Intelligent Serie

LED Driver
- Intelligent Serie
- 30W Intelligent Serie

LED Driver - Intelligent Series - 40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series

General
Power Supplies

SPD

50W Intelligent Series - MU050I105DQI81 (DALI DT8, 4chs)

Features

- · Compliant with Class 2 Power supply safety standards
- Comply with IEC62386-102(2.0), IEC62386-207 and IEC62386-209
- · Constant current LED driver
- · Support DALI type 8 RGBW adjustment
- Support DALI type 6 and the number of DALI address configurable (1/2/4 addresses)
- 4 LED channels, output current can be changed from 200mA to 1050mA
- Constant power maximum is 50W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



 $444 \times 30 \times 21$ mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<15A
Rated power	50W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	85 - 87 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1050mA
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection

Environmental Specifications

Operating temperature	-25 - 60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	85℃
Cooling method	Convection
Life time	50,000 hours at 50°C ambient
Reference dimension(LxWxH)	444 × 30 × 21 mm

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series

• Alternative DALI device type(default type 8).

You can select DALI type 6 or type 8 with Smartkey and DALI Configuarator.

DALI device type 8 software for tunable white(2500k-6500k).

You can set the CT range(coldest and warmest) with Smartkey and DALI Configuarator.

• DALI device type 6

You can set dual DALI addressable or solo DALI addressable output channels with Smartkey and DALI Configuarator.

· Switch DIM (with memory function)---push dimming

SwitchDIM means that you can use two lines to connect L and N to DA+ and DA- respectively, and add a switch in series to either of the two lines to complete the function of ON/OFF and dimming. Short press(<0.6s) can turn on/off the driver, and long press can adjust the dimming level. When several drivers are connected together and controlled by one switch, press the switch for 10s, all the drivers are dimmed to 50% at the same time.

MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configuarator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DALI address, scene modes etc. Please refer to specification of Smartkey to get specific information.

Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

· Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110°C, output current will be decreased to 50%. And it cannot recover until the temperture drops to 70° C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s.

No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot

Over-Power Protection

If the total power of two channels exceeds 60W, the output current of each channel will decrease to 50%.

DALI Signal Abnormality

If the signal of DALI is abnormal, including open-circuit and short-circuit, the output will recover to the preset maxium value.

Online Update

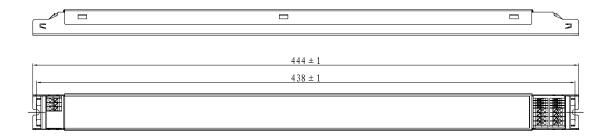
Use smart key to connect PC and the driver to update the firmware.

Please refer to the specification of Smart key.

Daisy-Chain

DALI dimming ports has 2 groups of DA+ and DA-, which support daisy-chain.

Mechanical Outline (unit: mm)







Numbering System

Selection ED Driver General Ser

LED Driver - General Series - Outdoor Use - Half Potted Series









LED Driver - Intelligent Series - 96W Intelligent Series

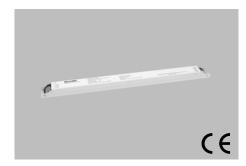
LED Driver
- Intelligent Series
- Other Series
General

SPD

50W Intelligent Series - MU050I150BQI81 (DALI DT8,2chs)

Features

- · Comply with Class 2 Power supply safety standards
- Comply with IEC62386-102(2.0), IEC62386-207 and IEC62386-209
- Constant current LED driver
- · Support DALI type 8 colour temperature adjustment
- Support DALI type 6 and the number of DALI address configurable (1/2 addresses)
- 2 LED channels, output current can be changed from 200mA to 1500mA
- Constant power maximum is 50W
- Dimming range 0.1%~100%
- Push Dimming for intensity and colour control.
- Protection comply with IP20
- 5-year warranty



 $403 \times 30 \times 21$ mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<15A
Rated power	50W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	85 - 87 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1500mA
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection

Environmental Specifications

Operating temperature	-25 - 60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	85℃
Cooling method	Convection
Life time	50,000 hours at 50°C ambient
Reference dimension(LxWxH)	403 × 30 × 21mm

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

• Alternative DALI device type(default type 8).

You can select DALI type 6 or type 8 with Smartkey and DALI Configuarator.

DALI device type 8 software for tunable white(2500k-6500k).

You can set the CT range(coldest and warmest) with Smartkey and DALI Configuarator.

• DALI device type 6

You can set dual DALI addressable or solo DALI addressable output channels with Smartkey and DALI Configuarator.

Switch DIM (with memory function)---push dimming

SwitchDIM means that you can use two lines to connect L and N to DA+ and DA- respectively, and add a switch in series to either of the two lines to complete the function of ON/OFF and dimming. Short press(<0.6s) can turn on/off the driver, and long press can adjust the dimming level. When several drivers are connected together and controlled by one switch, press the switch for 10s, all the drivers are dimmed to 50% at the same time.

Color DIM(Switch-Control for the colour temperature)---push dimming

The control of Colour temperature is initiated with a press and hold of the light level up to the maximum, holding it at maximum level. After a holding period of 6 seconds on full intensity the driver starts to change the colour temperature of the white light.

MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configurator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DALI address, scene modes etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110° C, output current will be decreased to 50%. And it cannot recover until the temperature drops to 70° C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

If the total power of two channels exceeds 60W, the output current of each channel will decrease to 50%.

DALI Signal Abnormality

If the signal of DALI is abnormal, including open-circuit and short-circuit, the output will recover to the preset maxium value.

Online Update

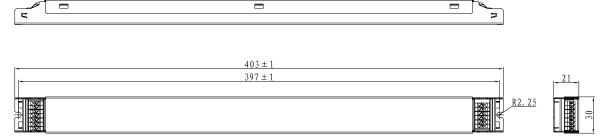
Use smart key to connect PC and the driver to update the firmware.

Please refer to the specification of Smart key.

• Daisy-Chain

DALI dimming ports has 2 groups of DA+ and DA-, which support daisy-chain.

Mechanical Outline (unit: mm)



Schematic Diagram



Numbe Systen

Quick Selecti

- General Serie - Outdoor Use - H Series Class II - H Series Class II

- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver - Outdoor Use - DALI Intelligent Serie

LED Driver
Intelligent Series
30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Serie

LED Driver
- Intelligent Series
- 96W Intelligent Serie

LED Driver
- Intelligent Serie:
- Other Series

General
Power Supplie
- MF Series

SPD

Appen

Numbering System

Quick

LED Driver - General Series - Outdoor Use - H Series Class I

- General Series
 Outdoor Use
- General Serie
 Outdoor Use
- LED Driver
 General Serie
 Outdoor Use
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Serie
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
- Power Supplies - MF Series

SPD

50W Intelligent Series - MU050I150BQI21 (DALI, 2chs)

Features

- Compliant with Class 2 Power supply safety standards
- · Constant current LED driver
- Default DALI type 6, 2 addresses
- 2 LED channels, output current can be changed from 200mA to 1500mA
- · Constant power maximum is 50W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



403 × 30 × 21 mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<15A
Rated power	50W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	85 - 87 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1500mA
Protections	Thermal protection, short-circuit protection, no-load protection, over-power protection

Environmental Specifications

Operating temperature	-25 - 60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	85℃
Cooling method	Convection
Life time	50,000 hours at 50°C ambient
Reference dimension(LxWxH)	403 × 30 × 21 mm

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

DALI type 6

DA+ and DA- are both the interfaces of DALI. You can set dual DALI addressable or solo DALI addressable output channels with Smartkey and DALI Configuarator.

· SwitchDIM (with memory function)---push dimming

SwitchDIM means that you can use two lines to connect L and N to DA+ and DA- respectively, and add a switch in series to either of the two lines to complete the function of ON/OFF and dimming. Short press(<0.6s) can turn on/off the driver, and long press can adjust the dimming level. When several drivers are connected together and controlled by one switch, press the switch for 10s, all the drivers are dimmed to 50% at the same time.

MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configuarator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DALI address, scene modes etc.Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110℃, output current will be decreased to 50%. And it cannot recover until the temperture drops to 70° .

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

If the total power of two channels exceeds 60W, the output current of each channel will decrease to 50%.

DALI Signal Abnormality

If the signal of DALI is abnormal, including open-circuit and short-circuit, the output will recover to the preset maxium value.

· Online Update

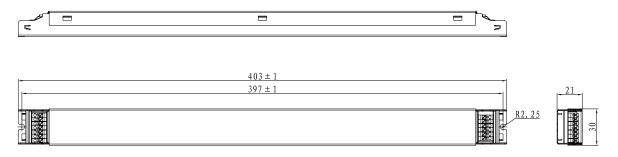
Use smart key to connect PC and the driver to update the firmware.

Please refer to the specification of Smart key.

Daisy-Chain

DALI dimming ports has 2 groups of DA+ and DA-, which support daisy-chain.

Mechanical Outline (unit: mm)

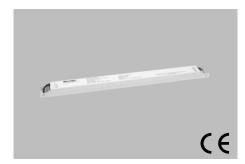




50W Intelligent Series - MU050I180AQI31 (DALI,1ch ,Aux Output)

Features

- Compliant with Class 2 Power supply safety standards
- Constant current LED driver
- Support DALI type 6
- 1 LED channel, output current can be changed from 200mA to 1800mA
- Auxiliary Output Voltage 12V,MAX Output Current 150mA
- Constant power maximum is 50W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



403 × 30 × 21 mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<15A
Rated power	50W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	85 - 87 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1800mA
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection

Environmental Specifications

Operating temperature	-25 - 60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	85℃
Cooling method	Convection
Life time	50,000 hours at 50°C ambient
Reference dimension(LxWxH)	403 × 30 × 21mm

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

• DALI type 6

DA+ and DA- are both the interfaces of DALI.

· SwitchDIM (with memory function)---push dimming

SwitchDIM means that you can use two lines to connect L and N to DA+ and DA- respectively, and add a switch in series to either of the two lines to complete the function of ON/OFF and dimming. Short press(<0.6s) can turn on/off the driver, and long press can adjust the dimming level. When several drivers are connected together and controlled by one switch, press the switch for 10s, all the drivers are dimmed to 50% at the same time.

· MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configurator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DALI address, scene modes etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

• Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110° C, output current will be decreased to 50%. And it cannot recover until the temperature drops to 70° C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

If the total power of two channels exceeds 60W, the output current of each channel will decrease to 50%.

DALI Signal Abnormality

If the signal of DALI is abnormal, including open-circuit and short-circuit, the output will recover to the preset maxium value.

Online Update

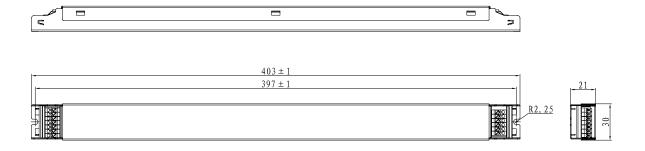
Use smart key to connect PC and the driver to update the firmware.

Please refer to the specification of Smart key.

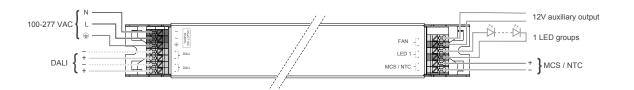
Daisy-Chain

DALI dimming ports has 2 groups of DA+ and DA-, which support daisy-chain.

Mechanical Outline (unit: mm)



Schematic Diagram



Ń

Number System

> Quick Selectiv

- General Serie
- Outdoor Use
- H Series Class I

- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Other Series

ED Driver
Outdoor Use
DALI Intelligent Seri

ED Driver ntelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

General
Power Supplie
- MF Series

SPI

Append

Numbering System

Quick Selection

- LED Driver
 General Series
 Outdoor Use
 H Series Class I
- General Series
 Outdoor Use
- LED Driver
 General Serie
 Outdoor Use
- LED Driver
 General Series
 Outdoor Use
 Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Seri
- LED Driver
 Intelligent Serie
 30W Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 96W Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
- Power Supplies - MF Series

SPD

Appendix

50W Intelligent Series - MU050I180AQI21 (DALI, 1ch)

Features

- · Compliant with Class 2 Power supply safety standards
- · Constant current LED driver
- Support DALI type 6
- 1 LED channel, output current can be changed from 200mA to 1800mA
- Constant power maximum is 50W
- Normal life time is 50000 hours (at the case's temperature of 72°)
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



403 × 30 × 21 mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<15A
Rated power	50W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	85 - 87 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1800mA
Protections	Thermal protection, short-circuit protection, no-load protection, over-power protection

Environmental Specifications

Operating temperature	-25 - 60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	85℃
Cooling method	Convection
Life time	50,000 hours at 50°C ambient
Reference dimension(LxWxH)	403 × 30 × 21mm

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

• DALI type 6

DA+ and DA- are both the interfaces of DALI.

· SwitchDIM (with memory function)---push dimming

SwitchDIM means that you can use two lines to connect L and N to DA+ and DA- respectively, and add a switch in series to either of the two lines to complete the function of ON/OFF and dimming. Short press(<0.6s) can turn on/off the driver, and long press can adjust the dimming level. When several drivers are connected together and controlled by one switch, press the switch for 10s, all the drivers are dimmed to 50% at the same time.

· MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configurator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DALI address, scene modes etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

. Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110° C, output current will be decreased to 50%. And it cannot recover until the temperature drops to 70° C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

If the total power exceeds 60W, the output current of each channel will decrease to 50%.

· DALI Signal Abnormality

If the signal of DALI is abnormal, including open-circuit and short-circuit, the output will recover to the preset maxium value.

Online Update

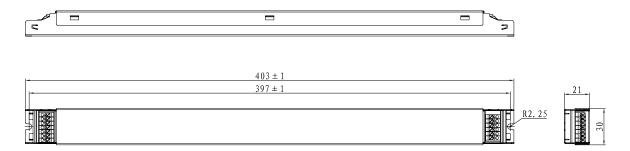
Use smart key to connect PC and the driver to update the firmware.

Please refer to the specification of Smart key.

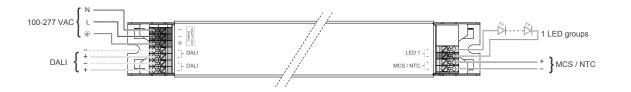
Daisy-Chain

DALI dimming ports has 2 groups of DA+ and DA-, which support daisy-chain.

Mechanical Outline (unit: mm)



Schematic Diagram



Number System

Quick

- General Serie
- Outdoor Use
- H Series Class I
- H Series Class II

- General Series
- Outdoor Use
- Half Potted Series

- General Serie
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver - Outdoor Use - DALI Intelligent Serie

ED Driver
Intelligent Series
30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver Intelligent Series 50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

General
Power Supplie

SP

Appendi

lumbering ystem

Quick

LED Driver General Series Outdoor Use H Series Class I H Series Class II

- General Series
 Outdoor Use
 Half Potted Series
- General Serie - Outdoor Use - A Series
- General Serie - Outdoor Use - Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Serie
 Other Series
- Power Supplies
 MF Series

SPD

ppendix

50W Intelligent Series - MU050I150BQI1 (0-10V, 2chs)

Features

- Compliant with Class 2 Power supply safety standards
- Constant current LED driver
- Support isolated 0-10V dimming
- 2 LED channels, output current can be changed from 200mA to 1500mA
- · Constant power maximum is 50W
- Dimming range $0.1\% \sim 100\%$
- Protection compliant with IP20
- 5-year warranty



 $130 \times 76 \times 30$ mm

Electrical Specifications

Input voltage range Frequency	100 - 277 V 50 / 60 HZ
Frequency	50 / 60 HZ
Input current	<15A
Rated power	50W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	88 - 90 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1500mA
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection

Environmental Specifications

Operating temperature	-25℃ - +49℃
Storage temperature	-40℃ - +85℃
Maximum case temperature	84℃
Cooling method	Convection
Life time	50,000 hours at tc 72℃ ambient
Reference dimension(LxWxH)	130 × 76 × 30 mm

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configurator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

• Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110 $^{\circ}$ C, output current will be decreased to 50%. And it cannot recover until the temperature drops to 70 $^{\circ}$ C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

If the total power of two channels exceeds 60W, the output current of each channel will decrease to 50%.

Online Update

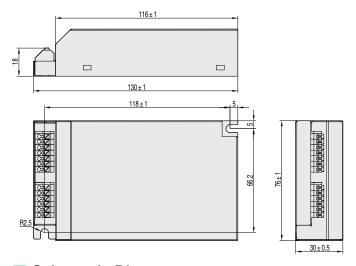
Use smart key to connect PC and the driver to update the firmware.

Please refer to the specification of Smart key.

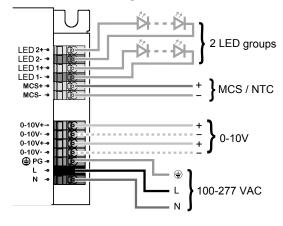
· Daisy-Chain

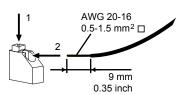
0-10V dimming ports has 2 groups of 0-10V+ and 0-10V-, which support daisy-chain.

Mechanical Outline (unit: mm)



Schematic Diagram





Solid or stranded copper wires only.

Number

Quick

LED Driver
- General Serie
- Outdoor Use
- H Series Class II

- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Other Series

- Outdoor Use - DALI Intelligent Serie

LED Driver
Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Serie
- Other Series

General
Power Supplie

SPD

Append

lumbering

Quick

LED Driver - General Series - Outdoor Use - H Series Class I - H Series Class II

- General Series - Outdoor Use - Half Potted Series

LED Driver - General Series - Outdoor Use - A Series

- General Series - Outdoor Use - Other Series









LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Series
- Other Series
General

SPD

50W Intelligent Series - MU050I180AQI4 (0-10V, 1ch, Aux Output)

Features

- · Compliant with Class 2 Power supply safety standards
- · Constant current LED driver
- · Support isolated 0-10V dimming
- 1 LED channel, output current can be changed from 200mA to 1800mA
- Auxiliary Output Voltage 12V,MAX Output Current 150mA
- Constant power maximum is 50W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



130 × 76 × 30mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<15A
Rated power	50W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	88 - 90 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1800mA
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection

Environmental Specifications

Operating temperature	-25℃ - +49℃
Storage temperature	-40℃ - +85℃
Maximum case temperature	84℃
Cooling method	Convection
Life time	50,000 hours at tc 72°C ambient
Reference dimension(LxWxH)	130 × 76 × 30 mm

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configurator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

· Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110 $^{\circ}$ C, output current will be decreased to 50%. And it cannot recover until the temperature drops to 70 $^{\circ}$ C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

If the total power exceeds 60W, the output current of each channel will decrease to 50%.

· Online Update

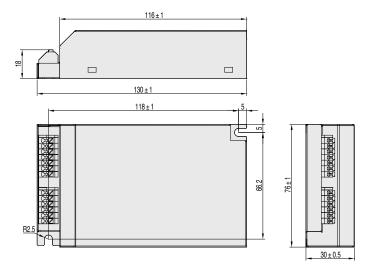
Use smart key to connect PC and the driver to update the firmware.

Please refer to the specification of Smart key.

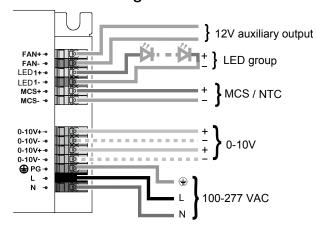
· Daisy-Chain

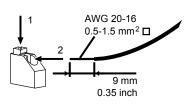
0-10V dimming ports has 2 groups of 0-10V+ and 0-10V-, which support daisy-chain.

Mechanical Outline (unit: mm)



Schematic Diagram





Solid or stranded copper wires only.

Number System

Quick

LED Driver
- General Serie
- Outdoor Use
- H Series Class I
- H Series Class II

- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

- Outdoor Use - DALI Intelligent Serie

LED Driver
- Intelligent Series
- 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Serie

LED Driver
- Intelligent Serie:
- Other Series

General
Power Supplie

SPD

Appendi

lumbering ystem

Quick

- LED Driver - General Series - Outdoor Use - H Series Class I
- General Series
 Outdoor Use
- LED Driver
 General Series
 Outdoor Use
 A Series
- LED Driver
 General Series
 Outdoor Use
 Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Seri
- LED Driver
 Intelligent Seri
- LED Driver
 Intelligent Series
 40W Intelligent Series

LED Driver - Intelligent Series

- LED Driver
 Intelligent Series
- LED Driver - Intelligent Serie - Other Series
- General
- ... 00.00

SPD

50W Intelligent Series - MU050I180AQI1 (0-10V, 1ch)

Features

- · Compliant with Class 2 Power supply safety standards
- Constant current LED driver
- Support isolated 0-10V dimming
- 1 LED channel, output current can be changed from 200mA to 1800mA
- · Constant power maximum is 50W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



130 × 76 × 30mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<15A
Rated power	50W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	88 - 90 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1800mA
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection

Environmental Specifications

Operating temperature	-25℃ - +49℃
Storage temperature	-40℃ - +85℃
Maximum case temperature	84℃
Cooling method	Convection
Life time	50,000 hours at tc 72°C ambient
Reference dimension(LxWxH)	130 × 76 × 30 mm

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configurator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

· Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110 $^{\circ}$ C, output current will be decreased to 50%. And it cannot recover until the temperature drops to 70 $^{\circ}$ C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

If the total power exceeds 60W, the output current of each channel will decrease to 50%.

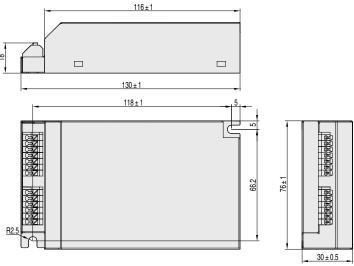
Use smart key to connect PC and the driver to update the firmware.

Please refer to the specification of Smart key.

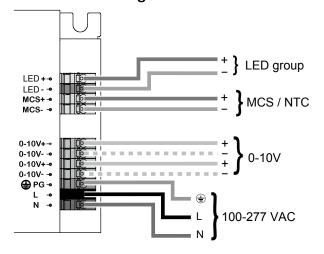
Daisy-Chain

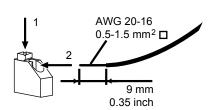
0-10V dimming ports has 2 groups of 0-10V+ and 0-10V-, which support daisy-chain.

Mechanical Outline (unit: mm)



Schematic Diagram





Solid or stranded copper wires only.

Number

Quick

LED Driver
- General Serie
- Outdoor Use
- H Series Class I
- H Series Class II

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Other Series

- Outdoor Use - DALI Intelligent Serie

LED Driver
- Intelligent Series
- 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver Intelligent Series 50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Series - Other Series

Power Supplie - MF Series

SPI

Append

lumbering System

Quick Selection

- General Series - Outdoor Use - H Series Class I - H Series Class II

- General Series
 Outdoor Use
 Half Potted Series
- General Serie - Outdoor Use - A Series
- LED Driver
 General Serie
 Outdoor Use
 Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Se
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Serie
 40W Intelligent Serie

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Series - Other Series

SPD

50W Intelligent Series - MU050I180AQI12 (0-10V, 1ch)

Features

- Compliant with Class 2 Power supply safety standards
- · Constant current LED driver
- Support isolated 0-10V dimming
- 1 LED channel, output current can be changed from 200mA to 1800mA
- Constant power maximum is 50W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



130 × 76 × 30mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<15A
Rated power	50W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	88 - 90 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1800mA
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection

Environmental Specifications

Operating temperature	-25 - 58℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	85℃
Cooling method	Convection
Life time	50,000 hours at tc 78℃ ambient
Reference dimension(LxWxH)	126 × 76 × 30 mm

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

· MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configuarator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

• Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110℃, output current will be decreased to 50%. And it cannot recover until the temperture drops to 70° C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

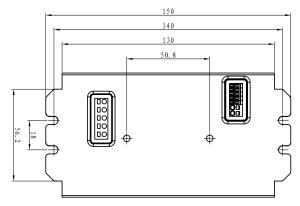
If the total power of two channels exceeds 60W, the output current of each channel will decrease to 50%.

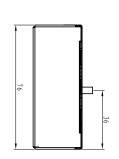
· Online Update

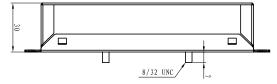
Use smart key to connect PC and the driver to update the firmware.

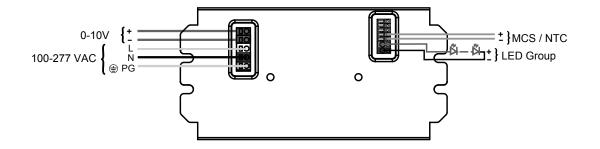
Please refer to the specification of Smart key.

Mechanical Outline (unit: mm)









lumbering ystem

Quick

LED Driver - General Series - Outdoor Use - H Series Class I - H Series Class II

- LED Driver
 General Series
 Outdoor Use
 Half Potted Series
- General Serie - Outdoor Use
- LED Driver
 General Series
 Outdoor Use
 Other Series
- LED Driver
 Outdoor Use
 DALI Intelligent Seri
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 96W Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
- General
- SPD

Appendix

50W Intelligent Series - MU050I150BQI11 (0-10V, 2chs)

Features

- · Compliant with Class 2 Power supply safety standards
- · Constant current LED driver
- Support isolated 0-10V dimming
- 2 LED channels, output current can be changed from 200mA to 1500mA
- · Constant power maximum is 50W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



403 × 30 × 21 mm

Electrical Specifications

100 - 277 V
50 / 60 HZ
<15A
50W
>0.95 (230V,50HZ,full loaded)
85 - 87 % (230V,50HZ,full loaded)
8 - 50 V
200-1500mA
Thermal protection,short-circuit protection,no-load protection,over-power protection

■ Environmental Specifications

Operating temperature	-25 - 60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	85℃
Cooling method	Convection
Life time	50,000 hours at 50°C ambient
Reference dimension(LxWxH)	403 × 30 × 21mm

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

· MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configuarator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110° C, output current will be decreased to 50%. And it cannot

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

If the total power of two channels exceeds 60W, the output current of each channel will decrease to 50%.

Online Update

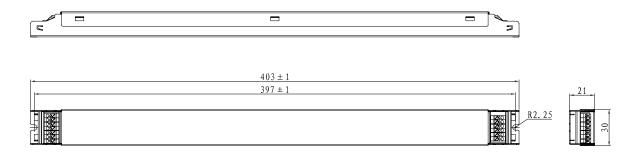
Use smart key to connect PC and the driver to update the firmware.

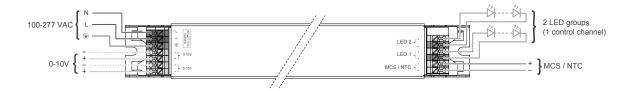
Please refer to the specification of Smart key.

Daisy-Chain

0-10V dimming ports has 2 groups of 0-10V+ and 0-10V-, which support daisy-chain.

Mechanical Outline (unit: mm)





50W Intelligent Series - MU050I180AQI41 (0-10V, 1ch,Aux Output) Features

- Compliant with Class 2 Power supply safety standards
- · Constant current LED driver
- Support isolated 0-10V dimming
- 1 LED channel, output current can be changed from 200mA to 1800mA
- Auxiliary Output Voltage 12V,MAX Output Current 150mA
- Constant power maximum is 50W
- Normal life time is 50000 hours (at the case's temperature of 72%)
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



403 × 30 × 21mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<15A
Rated power	50W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	85 - 87 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1800mA
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection

Environmental Specifications

Operating temperature	-25 - 60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	85℃
Cooling method	Convection
Life time	50,000 hours at 50°C ambient
Reference dimension(LxWxH)	403 × 30 × 21 mm

Safety & EMC Compliance

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
/oltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

Appendix

174

MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configuarator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

· Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

• Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110℃, output current will be decreased to 50%. And it cannot recover until the temperture drops to 70° C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. **No-load Protection**

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

If the total power exceeds 60W, the output current of each channel will decrease to 50%.

Online Update

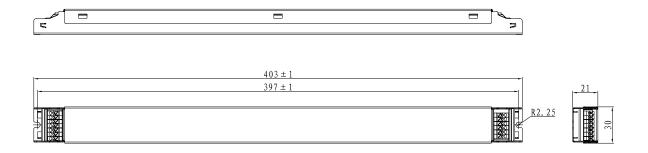
Use smart key to connect PC and the driver to update the firmware.

Please refer to the specification of Smart key.

· Daisy-Chain

0-10V dimming ports has 2 groups of 0-10V+ and 0-10V-, which support daisy-chain.

Mechanical Outline (unit: mm)





umbering ystem

Quick

LED Driver - General Series - Outdoor Use - H Series Class I

- H Series Class II LED Driver - General Series
- Half Potted Series

 LED Driver
 General Series
- A Series
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
 Intelligent Seri
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
- Power Supplies
 MF Series

SPD

■ Features

- Compliant with Class 2 Power supply safety standards
- · Constant current LED driver
- Support isolated 0-10V dimming
- 1 LED channel, output current can be changed from 200mA to 1800mA

50W Intelligent Series - MU050I180AQI11 (0-10V, 1ch)

- · Constant power maximum is 50W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



403 × 30 × 21 mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<15A
Rated power	50W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	85 - 87 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1800mA
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection

Environmental Specifications

Operating temperature	-25 - 60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	85℃
Cooling method	Convection
Life time	50,000 hours at 50°C ambient
Reference dimension(LxWxH)	403 × 30 × 21mm

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

· MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configuarator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

· Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

• Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110°C, output current will be decreased to 50%. And it cannot recover until the temperture drops to 70° C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot

Over-Power Protection

If the total power exceeds 60W, the output current of each channel will decrease to 50%.

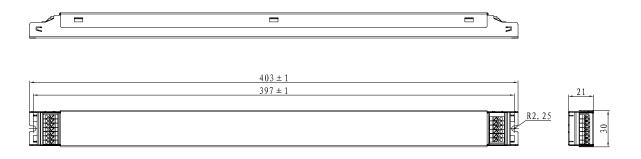
Use smart key to connect PC and the driver to update the firmware.

Please refer to the specification of Smart key.

• Daisy-Chain

0-10V dimming ports has 2 groups of 0-10V+ and 0-10V-, which support daisy-chain.

Mechanical Outline (unit: mm)





lumbering ystem

Quick

LED Driver - General Series - Outdoor Use - H Series Class I

- General Series
- Outdoor Use
- Half Potted Series

- General Serie - Outdoor Use - A Series

- General Series - Outdoor Use - Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Ser

LED Driver
- Intelligent Serie
- 30W Intelligent Serie

LED Driver
- Intelligent Series
- 40W Intelligent Serie

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Series
- Other Series

Power Supplies

SPD

ppendix

50W Intelligent Series - MU050I180AQI52 (DMX, 1ch)

Features

- · Compliant with Class 2 Power supply safety standards
- Constant current LED driver
- Support DMX/RDM dimming
- 1 LED channel, output current can be changed from 200mA to 1800mA
- · Constant power maximum is 50W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



130 × 76 × 30mm

Electrical Specifications

Input voltage range	100 - 277 V
Frequency	50 / 60 HZ
Input current	<15A
Rated power	50W
Power factor	>0.95 (230V,50HZ,full loaded)
Effiency	88 - 90 % (230V,50HZ,full loaded)
Output voltage range	8 - 50 V
Output current range	200-1800mA
Protections	Thermal protection,short-circuit protection,no-load protection,over-power protection

Environmental Specifications

Operating temperature	-25 - 58℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	85℃
Cooling method	Convection
Life time	50,000 hours at tc 78℃ ambient
Reference dimension(LxWxH)	126 × 76 × 30 mm

CUL	UL8750, UL1310, CAN/CSA-C22.2 No.223-M91
CE	EN 61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Voltage Fluctuations and Flicker	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

DMX/RDM

DMX+ , DMX-, Shield are the interfaces of DMX/RDM.

MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configuarator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, the number of DMX address, scene modes etc. Please refer to specification of Smartkey to get specific information.

• Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC. When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

· Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110° C, output current will be decreased to 50%. And it cannot recover until the temperture drops to 70° C .

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s. **No-load Protection**

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

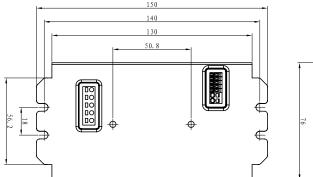
Over-Power Protection

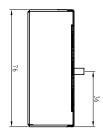
If the total power exceeds 60W, the output current of each channel will decrease to 50%.

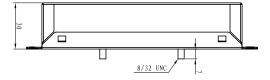
· Online Update

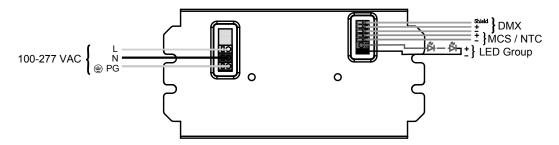
Connect Smartkey to PC through a USB port, then connect Smartkey to the driver correctly to update. Please refer to the specification of Smartkey.

Mechanical Outline (unit: mm)









lumbering System

Quick

- LED Driver
 General Series
 Outdoor Use
 H Series Class I
- LED Driver
 General Series
 Outdoor Use
- LED Driver
 General Serie
 Outdoor Use
- General Serie:
 Outdoor Use
- LED Driver
 Outdoor Use
 DALI Intelligent Seri
- LED Driver
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Serie
 50W Intelligent Serie

LED Driver
- Intelligent Series

- Intelligent Series
- Other Series
General

SPD

96W Intelligent Series - MU096I200AQI22 (DALI,1ch)

Features

- · Compliant with Class 2 Power supply safety standards
- Constant current LED driver
- Support DALI type 6
- 1 LED channel, output current can be changed from 200mA to 2000mA
- · Constant power maximum is 96W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



178.8 × 83.4 × 31.6 mm

Electrical Specifications

Input Voltage Range	100~277 VAC		
Frequency Range	47~63 Hz		
Input current	1.2A MAX at 100VAC		
Rated power	96W		
Power factor	>0.9% at 230V,50HZ,full load		
Efficiency	85%(typical) at 230V,50HZ,full load		
Output volatge range	36~48VDC		
Output current	2000mA		
Protections	Thermal Protection, Short-circuit Protection, No-load Protection, Over-Power Protection		

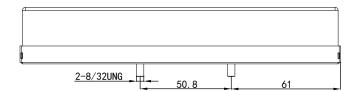
Environmental Specifications

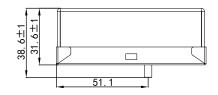
Operating temperature	-25 ~+50℃			
Storage temperature	-40 ~+85℃			
Cooling method	Convection			
Maximum case temperature	85℃			
Life Time	50000 hours (at the case's temperature of 70°C)			
Reference dimension	178.8×83.4×31.6 (mm) (LxWxH)			

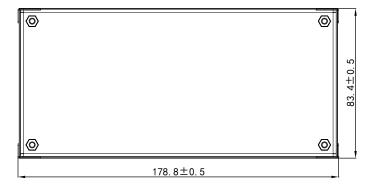
Safety & EMC Compliance

CUL	UL8750,UL1310			
Withstand Voltage	I/P-O/P: 3.75KVAC, I/P-FG: 1.875KVAC, O/P-FG: 0.5KVAC			
CE	EN61347-1,EN61347-2-13			
Conducted emissions	EN55015,FCC Part 15ClassB			
Radiated emissions	EN55015,FCC Part 15ClassB			
Harmonic current emission	IEC62386-101/102/207			
Electromagnetic immunity	EN61000-3-3;EN61000-4-2,3,4,5,6,8,11;EN61547			

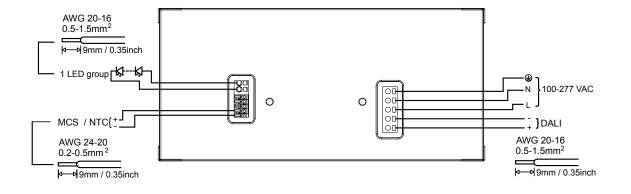
■ Mechanical Specification (mm)







Schematic Diagram



lumbering ystem

Quick Selection

- General Series - Outdoor Use - H Series Class I - H Series Class II

- Outdoor Use
 Half Potted Series
 LED Driver
- Outdoor Use - A Series LED Driver
- LED Driver
 Outdoor Use
 DALI Intelligent Ser
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 Other Series
 General

SDD:

96W Intelligent Series - MU096I200AQI52 (DMX/RDM,1ch)

Features

- Compliant with Class 2 Power supply safety standards
- Constant current LED driver
- Support DMX/RDM dimming
- 1 LED channel, output current can be changed from 200mA to 2000mA
- · Constant power maximum is 96W
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty



178.8 × 83.4 × 31.6 mm

Electrical Specifications

Input Voltage Range	100~277 VAC			
Frequency Range	47~63 Hz			
Input current	1.2A MAX at 100VAC			
Rated power	96W			
Power factor	>0.9 at 230V,50HZ,full load			
Efficiency	85%(typical) at 230V,50HZ,full load			
Output volatge range	36~48VDC			
Output current	2000mA			
Protections	Thermal Protection, Short-circuit Protection, No-load Protection, Over-Power Protection			

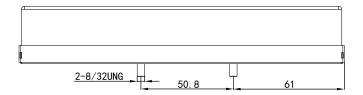
Environmental Specifications

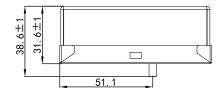
Operating temperature	-25 ~+50℃			
Storage temperature	-40 ~+85℃			
Cooling method	Convection			
Maximum case temperature	85℃			
Life Time	50000 hours (at the case's temperature of 70°C)			
Reference dimension	178.8 × 83.4 × 31.6 (mm) (LxWxH)			

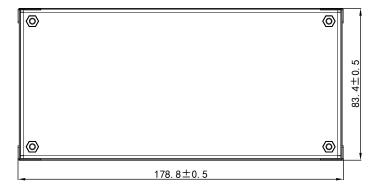
Safety & EMC Compliance

CUL	UL8750.UL1310		
Withstand Voltage	I/P-O/P : 3.75KVAC , I/P-FG : 1.875KVAC, O/P-FG :0.5KVAC		
CE	EN61347-1,EN61347-2-13		
Conducted emissions	EN55015,FCC Part 15ClassB		
Radiated emissions	EN55015,FCC Part 15ClassB		
Harmonic current emission	IEC62386-101/102/207		
Electromagnetic immunity	EN61000-3-3;EN61000-4-2,3,4,5,6,8,11;EN61547		

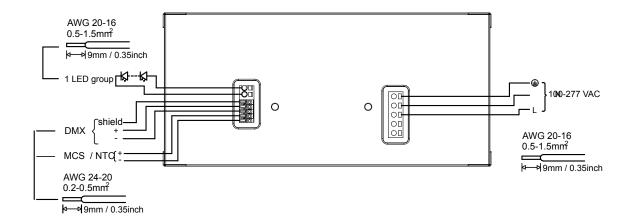
■ Mechanical Specification (mm)







Schematic Diagram



lumbering System

Quick Selection

- General Series - Outdoor Use - H Series Class I - H Series Class II

- Outdoor Use
 Half Potted Series

 LED Driver
- A Series

 LED Driver
- LED Driver
 Outdoor Use
 DALI Intelligent Seri
- LED Driver
 Intelligent Serie
- LED Driver
 Intelligent Series
 40W Intelligent Series
- LED Driver
 Intelligent Series
- LED Driver
 Intelligent Series
 96W Intelligent Series
- LED Driver - Intelligent Ser

Power Supplies - MF Series

SPD

Intelligent Other Series - MU096I024AP(DALI,1ch)

Features

- Input voltage: 90-305Vac.
- High efficiency: 88% typical
- Active PFC: 0.99 typical5%-100%, continuously adjustable
- Built-in DALI capability, 1ch
- Surge protection
- IP20 compliant
- Protections: OVP, SCP, OTP
- Safety compliant: UL8750,UL1310,CSA-C22.2 No.107.1, IEC61347-1, IEC61347-2-13
- EMI: FCC Part 15 Class B,EN55015 Class B
- 5-year warranty



300 × 61.8 × 30.5mm

Electrical Specifications

Input voltage range	90~305 VAC			
Frequency	47~63 Hz			
Power factor	0.99 at 110VAC 0.95 at 220VAC (typical)			
Inrush current	65 A Max (25° C, at 220 VAC, cold start)			
Input current	1.2A Max at 110VAC 0.6A Max at 220VAC			
Efficiency	88% (typical) at 220VAC maximum load			
Maximum power	96W			
Line regulation	±1%			
Load regulation	±3%			
Leakage current	0.75mA Max			
Protections	Over Voltage, Short Circuit, Over Temperature			

Environment Specifications

Operating temperature	-40° C~ +50° C			
Storage temperature	-40° C~ +85° C			
Maximum case temp	90° C			
Humidity	10% ~ 95%			
Cooling method	Convection			
Isolation voltage	I/P-O/P 3750 VAC,I/P-FG 1875 VAC,O/P-FG 500 VAC			
MTBF	300,000 hours full load at 25°C ambient			
Life time	50,000 hours at 40°C ambient			
Reference dimension (L*W*H)	300*61.8*30.5 (mm)			

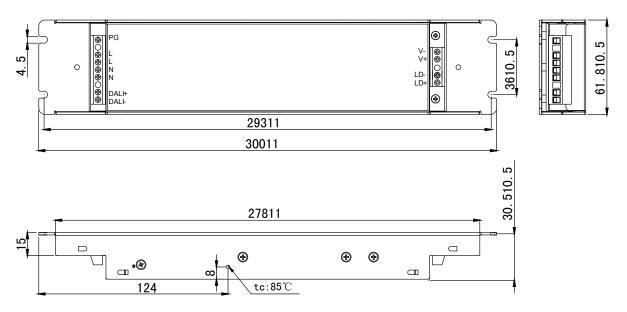
Safety & EMC Compliance

CUL	UL8750, UL1310, CSA-C22.2 No.107.1			
CE	EN61347-1, EN61347-2-13			
Conducted emissions	FCC Part15 Class B / EN55015			
Radiated emissions	FCC Part15 Class B / EN55015			
Harmonic current emissions	EN61000-3-2			
Voltage fluctuations and flicker	EN61000-3-3			
Electrostatic discharge	EN61000-4-2			
RFE field susceptibility	EN61000-4-3			
Electrical fast transient	EN61000-4-4			
Surge immunity test	EN61000-4-5			
Conducted radio frequency	EN61000-4-6			
Power frequency magnetic field test	EN61000-4-8			
Voltage dips	EN61000-4-11			
Electromagnetic immunity	EN61547			

Model Specifications - Constant Voltage

Part Nmuber	Output Current	Output Voltage	Voltage Accuracy	Efficiency (typical)	
MU096I024AP DALI	0-4000mA	24VDC	± 3%	110Vac	220Vac
WOO90IO24AP_DALI	0-4000IIIA	24400		86%	88%

Mechanical Outline (unit: mm)



Schematic Diagram



Numbering System

Quick

- General Series
- Outdoor Use
- H Series Class I

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Serie
- Outdoor Use
- A Series

General SeriesOutdoor UseOther Series

LED Driver - Outdoor Use - DALI Intelligent Serie

LED Driver
- Intelligent Serie

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Serie

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Series

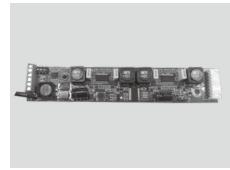
Power Supplie

SPD

Intelligent Other Series - DMX/RDM DC-DC Module (4chs output)

Features

- Compliant with American National Standard E1.11 2004 (USITT DMX512-A)
- Compliant with E1.20 20xx and ANSI E1.37-1 2012
- Dimming range 0.1%~100%
- 4 LED channels, output current can be changed from 200mA to 700mA
- Input voltage: 20~60VDC
- High efficiency: 95% Typ.
- Full protection function: OPP, OTP, OVP,SCP
- Support daisy-chain, built-in ten scene modes
- 5-year warranty



28x150x17 mm

Electrical Specifications

Input Voltage Range	20 ~ 60 VDC (6V <vin-vo<20v)< th=""></vin-vo<20v)<>		
Maximum Input current	2A		
Efficiency	97%(typical), 95%(minimum) at Vin=55VDC and 100%load		
Output Voltage	8-48VDC		
Output Current	200~700mA		
Output channel	4 channels		
Total Output Power	50W		
Maximum power per channel	34W		
Operating Mode	Continuous operating		
Starting Time	0.1s		
Protection	Over Power Protection, Over Temperature Protection, Over Voltage Protection, Short Circuit Protection		
Communication	DMX/RDM		

Environmental Specifications

Working temperature	Ta: -35 ~+50℃,Tc: Max. 75℃			
Working humidity	90% RH			
Life time	more than 50,000 hours, 50° C ambient temperature			
MTBF	more than 300,000 hours, measured at full load, 25℃ ambient temperature			
Dimension	28 x 150 x17mm (LxWxH)			

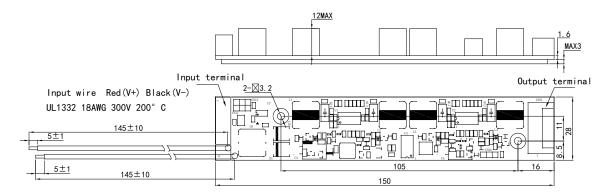
Safety & EMC Compliance

Safety Standard	IEC61347.1;IEC61347-2-13
EMC	CISPR15; IEC61000-3-2;IEC61000-3-3 ;IEC61547;

Model Specifications

Model	Input Voltage Range	Output Current	Total Output Power	Output Voltage Range	
DMX/RDM DC-DC	20~60VDC	200~700mA	50W	8~48VDC	

Mechanical Outline (unit: mm)



Schematic Diagram



LED Driver
- General Serie
- Outdoor Use
- H Series Class II

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

Outdoor Use

DALI Intelligent Series

ED Driver Intelligent Series 30W Intelligent Series

ED Driver Intelligent Series 40W Intelligent Series

ED Driver Intelligent Series 60W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Serie
- Other Series

General
Power Supplie

SPF

.

Features

- Universal AC input / full range: 90-264VAC or 125-370VDC
- Safety: CE / CUL
- EMI: compliance to FCC-B, EN55011 / EN55022-B, CISPR22-B
- EMS: compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11
- Protections: SCP, OCP, OVP

MF50N Series

- LED indicator for power on
- Terminal block: vertical terminal / horizontal terminal / connector modes available (horizontal terminal is standard)
- Compact size, high performance, high reliability
- 2-year warranty



single output $99.5 \times 97 \times 36$ mm

General Specifications

	MF50N 3AG	MF50N 5AG	MF50N 7AG	MF50N 12AG	MF50N 15AG	MF50N 24AG	MF50N 27AG	MF50N 36AG	MF50N 48AG
Rated output voltage	3.3V	5V	7.5V	12V	15V	24V	27V	36V	48V
Output current range	0~10A	0~10A	0~6.7A	0~4.2A	0~3.4A	0~2.1A	0~1.9A	0~1.4A	0~1.1A
Rated output power	33W	50W	50.2W	50.4W	51W	50.4W	51.3W	50.4W	52.8W
Output voltage Adj. range	3.3~3.8V	4.75~5.5V	6.75~8.25V	11.0~13.2V	13.5~16.5V	21.6~26.4V	24.3~29.0V	32.4~39.6V	43.2~52.8V
Ripple & noise (p-p) *1, *2	501	mV	80mV	100	mV		150)mV	,
Line regulation *2					± 0.3%				
Load regulation *2	± 1.	.0%				± 0.3%			
Output voltage tolerance *2					±1%				
Hold time (typical) *1					16ms / 50ms				
Input voltage Range				90 ~ 264VAC (47 ~ 63Hz) or	125 ~ 370VD0	;		
Input AC current (typical) *1					1.3A / 0.8A				
Inrush current (typical) *1				18A	/ 36A (cold st	tart)			
Efficiency (typical) *1	74% / 75%	78% / 79%	80% / 82%	81% / 83%	83% / 84%	85% / 86%	84% / 85%	85% / 86%	85% / 86%
Leakage current (typical) *1				0.5mA /	0.75mA (MA)	(1.0mA)			
Over current protection *3					105% ~ 150%)			
Over voltage protection *3	4.0~4.8V	5.7~7.5V	8.5~11.0V	14.0~17.0V	17.2~20.3V	27.6~32.4V	29.0~35.0V	41.4~48.6V	55.2~62.5V
Hold time (typical) *1				< 0.	03% /℃ (0~50)℃)			
Operating temperature			- 20	°C ~ + 70 °C	Refer to outp	ut derating cu	rve)		
Operating humidity				20 ~ 90 %	6RH (Non-cor	ndensing)			
Storage temperature					- 30℃ ~ +85℃				
Storage humidity				10 ~ 95%	RH (Non-con	densing)			
Cooling method				Cooling	by free air co	nvection			
Withstand voltage	In	put / output: 3	3.0kVAC (20m/	A); input - FG:	2.0kVAC (20n	nA); output -	FG: 500VAC (5	50mA), 1 minu	ite
Isolation resistance		>100M Ω output - FG:500VDC Ta=25 $^{\circ}$ C and 70 $^{\circ}$ RH							
Vibration	10-55Hz, 10min. 1 cycle, 2G constant; X, Y, Z axes, 1 hour each								
Safety	Compliance to UL60950-1, CSA60950-1, EN60950-1, GB4943								
Emi conduction & radiation *4	Compliance to FCC- B, EN55011 / EN55022-B, VCCI-B								
Ems immunity *4		Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11							
Weight (typical)		400g							
Reference Dimension (L x W x H)				99	.5 × 97 × 36 (m	ım)			

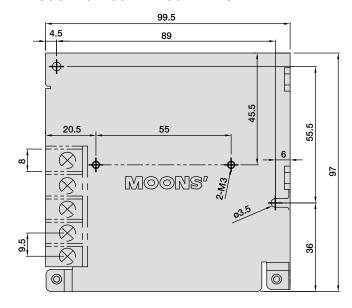
Note:

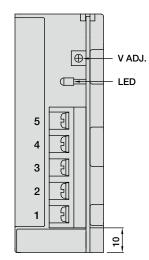
- *1 All parameters not specially mentioned are measured at 115 / 230VAC input, rated load and 25℃ of ambient temperature.
- *2 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- *3 Protection type: Hiccup mode, recovers automatically after fault condition is removed.
- *4 The power supply is considered as a component to be installed into a final equipment which should be re-confirmed to meets EMC directives.

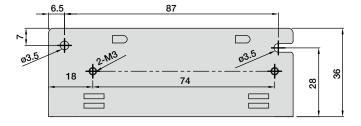
Conoral Specific

Mechanical Outline (unit: mm)

Model Number: MF50N24AG-H



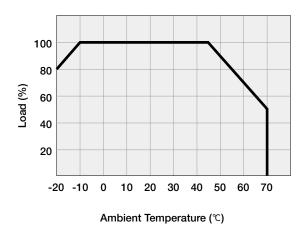


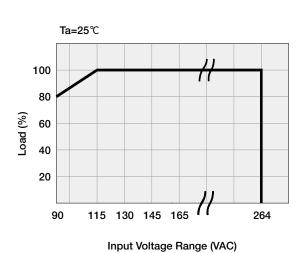


• Pin Configuration

Pin No.	Output
1	Input / L
2	Input / N
3	FG ≟
4	Output -V
5	Output +V

Derating Curve





Number System

Quick Selecti

LED Driver

- General Series

- Outdoor Use

- H Series Class I

- H Series Class II

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver - Outdoor Use - DALI Intelligent Serie

ED Driver ntelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver

LED Driver
- Intelligent Series

- Intelligent Serie

General

SPD

Features

- Universal AC input / full range: 84-264VAC or 120-370VDC
- Active PFC filter build-in, PF>0.95, compliance to EN61000-3-2
- Safety: CUL / TUV / CB / CE

MF100A Series

- Protections: SCP, OCP, OVP
- LED indicator for power on
- Terminal block: vertical terminal / horizontal terminal / connector modes available (vertical terminal is standard)
- Remote ON / OFF control (optional)
- · Compact size, high performance, high reliability
- 2-year warranty



single output 170 × 99 × 44mm

General Specifications

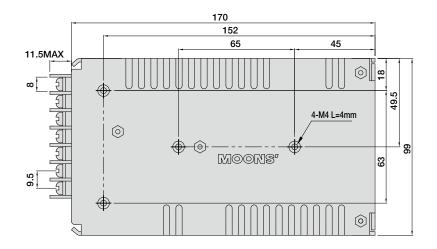
	MF100A 3AG	MF100A 5AG	MF100A 7AG	MF100A 12AG	MF100A 15AG	MF100A 24AG	MF100A 27AG	MF100A 36AG	MF100A 48AG
Rated output voltage	3.3 V	5 V	7.5 V	12 V	15 V	24 V	27 V	36 V	48 V
Output current range	0~20 A	0~20 A	0~13.4 A	0~8.5 A	0~6.7 A	0~4.3 A	0~3.8 A	0~2.9 A	0~2.1 A
Rated output power	66 W	100 W	100 W	102 W	100 W	103 W	102 W	104 W	101 W
Output voltage Adj. range *1	2.97~3.63 V	4.5~5.5 V	6.75~8.25 V	10.8~13.2 V	13.5~16.5 V	21.6~26.4 V	24.3~29.7 V	32.4~39.6 V	43.2~52.8 V
Ripple & noise (p-p) *1, *2	100 mV	100 mV	100 mV	100 mV	100 mV	150 mV	170 mV	190 mV	240 mV
Line regulation *2	20 mV	20 mV	30 mV	48 mV	60 mV	96 mV	112 mV	120 mV	150 mV
Load regulation *2	40 mV	40 mV	60 mV	96 mV	120 mV	120 mV	120 mV	120 mV	120 mV
Output voltage tolerance *2					±1%				
Hold-up time (typical)*1					16ms / 20ms				
Input voltage range				85 ~ 264 VAC	(47-63Hz) or 1	20 ~ 370 VDC	;		
Input current (typical) *1	0.9A / 0.5A				1.2A	/ 0.6A			
Inrush current (typical) *1				20/	4/40A (cold st	art)			
Power factor (typical)	0.98 / 0.93				0.99	/ 0.95			
Efficiency (typical) *1	70% / 71%	75% / 77%	78% / 81%	79% / 82%	80% / 83%	81% / 84%	81% / 84%	81%/84%	81% / 84%
Leakage current (typical) *1				0.25mA	0.5mA (MAX	0.75mA)			
Over current protection *3					105% - 150%				
Over voltage protection *4	3.79~4.95 V	5.75~6.95 V	8.62~10.13V	13.8~16.2 V	17.2~20.3 V	27.6~32.4 V	31.2~36.8 V	41.4~48.6 V	55.2~64.8 V
Temperature coefficient					< 0.02% /℃				
Operating temperature			-:	20 ~ + 70°C (R	efer to output	derating curv	re)		
Operating humidity				20 ~ 90 %	6RH (Non-cor	ndensing)			
Storage temperature					- 30 ~ +85℃				
Storage humidity				10 ~ 95%	RH (Non-con	idensing)			
Cooling method			Cool	ing by free air	convection /	external collin	g fan		
Withstand voltage	Input / output: 3.0kVAC (20mA); input - FG: 2.0kVAC (20mA); output - FG: 500VAC (20mA), 1 minute								
Isolation resistance	>100M Ω output - FG:500VDC Ta=25 $^{\circ}$ C and 70 $^{\circ}$ RH								
Vibration	10 - 55Hz, 10min. 1 cycle, 2G constant; X, Y, Z axes 1 hour each								
Safety standards	UL60950-1, CSA60950-1, EN60950-1, GB4943								
EMI conduction & radiation*5	Compliance to FCC-Class B, EN55011/EN55022-B, CISPR22 Class B								
EMS immunity *5		Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11							
Optional function		Remote ON/OFF control							
Weight (typical)					550 g				
Reference Dimension (L x W x H)				17	0 × 99 × 44 (m	m)			

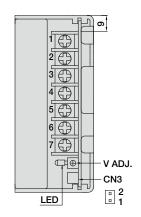
Note:

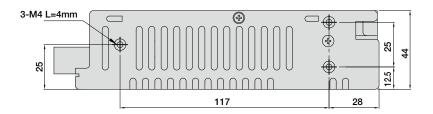
- *1 All parameters not specially mentioned are measured at 115 / 230VAC input, rated load and 25℃ of ambient temperature.
- *2 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- *3 OCP type: constant current limiting, recovers automatically after fault condition is removed (hiccup mode customizable)
- *4 OVP type: shutdown output voltage, re-power on to recover.
- *5 The power supply is considered as a component to be installed into a final equipment which should be re-confirmed to meets EMC directives.

Mechanical Outline (unit: mm)

Model Number: MF100A24AG-V







• Pin Configuration

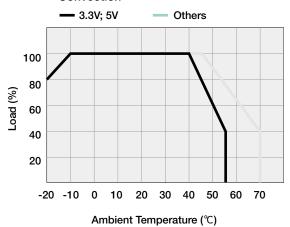
Pin No.	Output
1	AC/L
2	AC/ N
3	FG ≟
4,5	DC output -V
6,7	DC output +V

• CN3: JST S2B-XH or Equivalence(Optional)

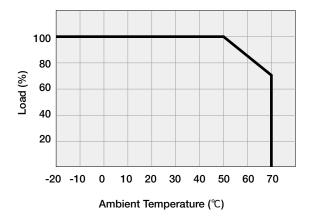
Pin No.	Output	Matching Conn.	Maching Pin.
1	RC+	JST XHP	JST SXH-001T-P0.6
2	RC-	or equivalent	or equivalent

Derating Curve





• Force-air Cooling (at 18 CFM or 1.2 m/s)



LED Driver

- General Series

- Outdoor Use

- H Series Class I

- H Series Class II

- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver - General Series - Outdoor Use - Other Series

ED Driver Outdoor Use DALI Intelligent Serie:

LED Driver
Intelligent Series

LED Driver
Intelligent Series
40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series

LED Driver - Intelligent Serie

General Power Supplie

SPE

Append

MF150A Series

Features

- Universal AC input / full range: 85-264VAC or 120-370VDC
- Active PFC filter build-in, PF>0.95, compliance to EN61000-3-2
- Safety: CUL / TUV / CB / CE
- Protections: SCP, OCP, OVP, OTP
- LED indicator for power on
- Terminal block: vertical terminal / horizontal terminal / connector modes available (vertical terminal is standard)
- Peak current for motor applications: models 24V, 27V, 36V, 48V (optional)
- Remote ON / OFF control (optional)
- Compact size, high performance, high reliability
- 2-year warranty



single output $170 \times 99 \times 50$ mm

General Specifications

	MF150A 3AG	MF150A 5AG	MF150A 7AG	MF150A 12AG	MF150A 15AG	MF150A 24AG	MF150A 27AG	MF150A 36AG	MF150A 48AG
Rated output voltage	3.3V	5V	7.5V	12V	15V	24V	27V	36V	48V
Output current range	0~24A	0~24A	0~16A	0~12.5A	0~10A	0~6.3A	0~5.6A	0~4.2A	0~3.2A
Peak output current (optional)	-	-	-	-	-	9.5A	8.1A	6.3A	4.8A
Rated output power	79W	120W	120W	150W	150W	151W	151W	151W	154W
Output voltage Adj. range *1	2.97~3.63V	4.5~5.5V	6.75~8.25V	10.8~13.2V	13.5~16.5V	21.6~26.4V	24.3~29.7V	32.4~39.6V	43.2~52.8V
Ripple & noise (p-p) *1, *2	100mV	100mV	100mV	100mV	100mV	150mV	170mV	190mV	240mV
Line regulation *2	20mV	20mV	30mV	48mV	60mV	96mV	112mV	120mV	150mV
Load regulation *2	40mV	40mV	60mV	96mV	120mV	120mV	120mV	120mV	120mV
Output Voltage Tolerance *2		,			±1 %				,
Hold-up time (typical) *1					16ms / 20ms				
Input voltage range				85 ~ 264VAC	(47-63Hz) or 1	20 ~ 370VDC			
Input current (typical) *1	1.3A /0.7A				1.8A	/ 0.9A			
Inrush current (typical)				20 <i>A</i>	/ 40A (cold s	tart)			
Power factor (typical)	0.98 /0.93				0.99	/ 0.95			
Efficiency (typical) *1	71% / 73%	76% / 79%	79% / 81%	81% / 84%	81% / 84%	81% / 84%	81% / 84%	82% / 85%	83% / 86%
Leakage current (typical) *1			,	0.25mA	/ 0.5mA (MAX	0.75mA)			
Over current protection *3					105% - 150%				
Over voltage protection *4	3.79~4.95V	5.75~6.95V	8.62~10.13V	13.8~16.2V	17.2~20.3V	27.6~32.4V	31.2~36.8V	41.4~48.6V	55.2~64.8V
Temperature coefficient					< 0.02% /℃				
Operating temperature			- :	20 ~ + 70°C (R	efer to output	derating curv	re)		
Operating humidity				20 ~ 90 %	6RH (Non-cor	ndensing)			
Storage temperature					- 30 ~ +85℃				
Storage humidity				10 ~ 95%	6RH (Non-con	ndensing)			
Cooling method			Cool	ling by free air	convection /	external collin	g fan		
Withstand voltage	Inp	Input / output: 3.0kVAC (20mA); input - FG: 2.0kVAC (20mA); output - FG: 500VAC (20mA), 1 minute							
Isolation resistance		>100 MΩ output - FG: 500VDC Ta=25°C and 70%RH							
Vibration		10 - 55Hz, 10min. 1 cycle, 2G constant, X, Y, Z axes 1 hour each							
Safety standards	UL60950-1, CSA60950-1, EN60950-1, GB4943								
EMI conduction & radiation*5	Compliance to FCC-Class B, EN55011/EN55022-B, CISPR22 Class B								
EMS immunity *5		Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11							
Optional function		Remote ON/OFF control, peak current output, over-temperature protection							
Weight (typical)					620g				
Reference Dimension (L x W x H)				17	0 × 99 × 50 (m	m)			

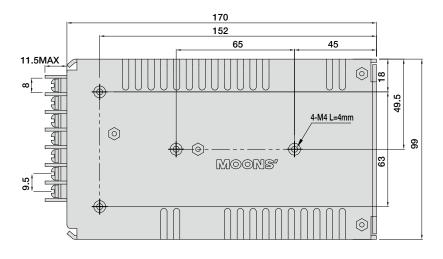
Note:

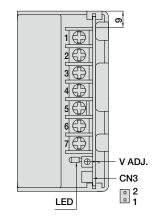
- *1 All parameters not specially mentioned are measured at 115 / 230VAC input, rated load and 25℃ of ambient temperature.
- *2 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- *3 OCP type: constant current limiting, recovers automatically after fault condition is removed (hiccup mode customizable)
- *4 OVP type: shutdown output voltage, re-power on to recover.
- *5 The power supply is considered as a component to be installed into a final equipment which should be re-confirmed to meets EMC directives.
- 6 Operating time at peak output current is less than 10 sec. With Average Output Power.(Duty≤0.35)

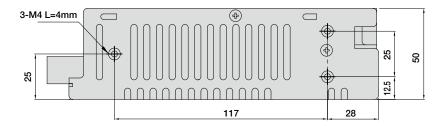


Mechanical Outline (unit: mm)

Model Number: MF150A24AG-V







• Pin Configuration

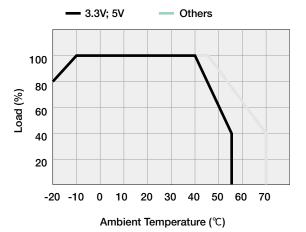
Pin no.	Output
1	AC input / L
2	AC input / N
3	FG ≟
4,5	DC output - V
6,7	DC output +V

• CN3: JST S2B-XH or Equivalent (optional)

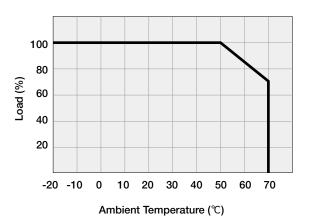
Pin No.	Assignment	Output	Maching Pin.
1	RC+	JST XHP	JST SXH-001T-P0.6
2	RC-	or equivalent	or equivalent

Derating Curve





• Force-air Cooling (at 18 CFM or 1.2 m/s)



Quick Selecti

LED Driver

- General Series

- Outdoor Use

- H Series Class I

- H Series Class II

- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

ED Driver Outdoor Use DALI Intelligent Serie:

ED Driver Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Series

.ED Driver Intelligent Series

- Intelligent Serie

General
Power Supplies
- MF Series

SPD

Append

Features

- Universal AC input / full range: 85-264VAC or 120-370VDC
- Active PFC filter build-in, PF>0.95, compliance to EN61000-3-2
- Safety: CUL / TUV / CB / CE
- Protections: SCP, OCP, OVP, OTP

MF320A Series

- LED indicator for power on
- Terminal block: vertical terminal / horizontal terminal / connector modes available (vertical terminal is standard)
- Peak current for motor applications: models 24V, 27V, 30V, 36V, 48V (optional)
- Remote ON / OFF control (optional)
- Compact size, high performance, high reliability
- · 2-year warranty



single output 199 × 99 × 52mm

General Specifications

	MF320A 5AG						MF320A 48AG		
Rated output voltage	5V	7.5V	12V	15V	24V	27V	30V	36V	48V
Output current range	0~50A	0~40A	0~26A	0~21A	0~13A	0~12A	0~10.8A	0~9A	0~6.7A
Peak output current (optional)	-	-	-	-	17.3A	17A	13A	11.5A	8.7A
Rated output power	250W	300W	312W	315W	312W	324W	324W	324W	321W
Output voltage Adj. range *1	3.0~5.5V	6.75~8.25V	10.8~13.2V	13.5~16.5V	21.6~26.4V	24.3~29.7V	27.0~33.0V	30.0~40.0V	43.2~52.8V
Ripple & noise (p-p) *1, *2	100mV	100mV	100mV	120mV	150mV	150mV	200mV	200mV	240mV
Line regulation*2	20mV	30mV	48mV	48mV	48mV	54mV	60mV	72mV	96mV
Load regulation*2	40mV	60mV	96mV	120mV	120mV	150mV	180mV	180mV	240mV
Output voltage tolerance *2					±1%				
Hold-up time (typical) *1					16ms / 20ms				
Input voltage range				85 ~ 264VAC	(47-63Hz) or 1	20 ~ 370VDC			
Input current (typical) *1	3.2A / 1.6A				3.6A	/ 1.8A			
Inrush current (typical) *1				20 <i>A</i>	1 / 40A (cold s	tart)			
Power factor (typical) *1					0.99 / 0.95				
Efficiency (typical) *1	74% / 78%	79% / 83%		82% / 86%			83%	/ 87%	
Leakage current (typical) *1				0.25m/	4 / 0.5mA (MA	X 0.75)			
Over current protection *3					105% - 150%	ı			
Over voltage protection *4	5.75~6.95V	8.62~10.13	13.8~16.2V	17.2~20.3V	27.6~32.4V	31.1~36.5V	34.5~40.5V	41.4~48.6V	55.2~64.8V
Over temp. Protection *4			90°	C ± 5 (Detect	on heatsink of	power transi	stor)		
Temperature coefficient				< 0	.02% /℃ (0-50)℃)			
Operating temperature			- :	20 ~ + 70°C (F	lefer to output	derating curv	re)		
Operating humidity				20 ~ 90%	6RH (Non-cor	ndensing)			
Storage temperature					- 30 ~ +85℃				
Storage humidity			,	10 ~ 95%	6RH (Non-cor	ndensing)			
Cooling method					built-in DC far	1			
Withstand voltage	In	Input / output: 3.0kVAC (10mA); input - FG: 2.0kVAC (10mA); output - FG: 500VAC (10mA), 1 minute							
Isolation resistance	>100MΩ output - FG:500VDC Ta=25℃ and 70%RH								
Vibration	10 - 55Hz, 10min. 1 cycle, 2G constant, X, Y, Z axes 1 hour each								
Safety standards	UL60950-1, CSA60950-1, EN60950-1, GB4943								
EMI conduction & radiation*5	Compliance to FCC-Class B, EN55011/EN55022-B, CISPR22 Class B								
EMS immunity *5	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11								
Optional function	Remote ON/OFF control, line drop compensation, peak current output, output failure alarm								
Weight (typical)		900g							
Reference Dimension (L x W x H)				19	99 × 99 × 52 (m	nm)			

Note:

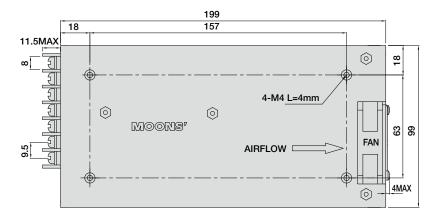
- *1 All parameters not specially mentioned are measured at 115 / 230VAC input, rated load and 25 ℃ of ambient temperature.
- *2 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- *3 OCP type: constant current limiting, recovers automatically after fault condition is removed (hiccup mode customizable)
- *4 OVP type: shutdown output voltage, re-power on to recover.
- *5 The power supply is considered as a component to be installed into a final equipment which should be re-confirmed to meets EMC directives.
- Operating time at peak output current is less than 10 sec. With Average Output Power.(Duty≤0.35)

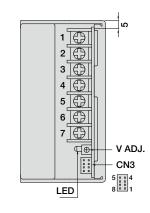


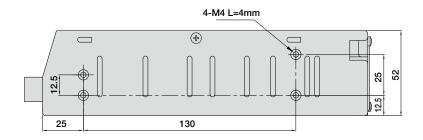
194

Mechanical Outline (unit: mm)

Model Number: MF320A24AG-V







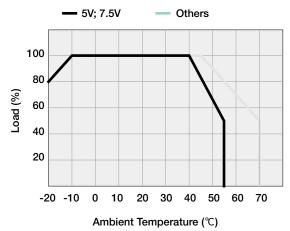
• Pin Configuration

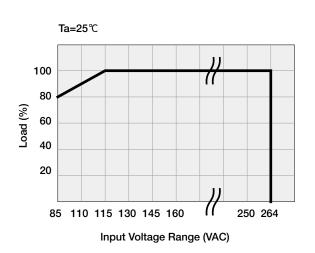
Output
AC input / L
AC input / N
FG ≟
DC output -V
DC output +V

CN3: JST S8B_PHDSS or Equivalent (optional)

Pin No.	Output	Pin No.	Output
1	СОМ	8	PF
2	RC+	7	RC-
3	VO-	6	-S
4	VO+	5	+8

Derating Curve





LED Driver
- General Series
- Outdoor Use
- H Series Class I
- H Series Class II

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

ED Driver Outdoor Use DALI Intelligent Series

ED Driver
Intelligent Series
30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

ED Driver
Intelligent Series
50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Serie

General Power Supplies

SPE

.

umbering

Quick

LED Driver - General Series - Outdoor Use - H Series Class I - H Series Class II

- Outdoor Use - Half Potted Series LED Driver

- A Series LED Driver - General Series

LED Driver - Outdoor Use - DALI Intelligent Serie

LED Driver - Intelligent Series - 30W Intelligent Serie









Power Supplies - MF Series

- MF Series

MF300A5AG - PSU For LED Screen Displays (Ultrathin)

Features

- Universal AC input: 90-264VAC
- Active PFC filter build-in, PF>0.95, compliance to EN61000-3-2.
- Ultrathin: 25.5mm height, high performance
- Protections: short circuit, overload, over voltage, over temperature.
- LED indicator for power on.
- Fan speed automatically adjusts with the load which improves fan life.
- Safety: CUL / CE
- · 2-year warranty.



single output 215 × 115 × 25.5mm

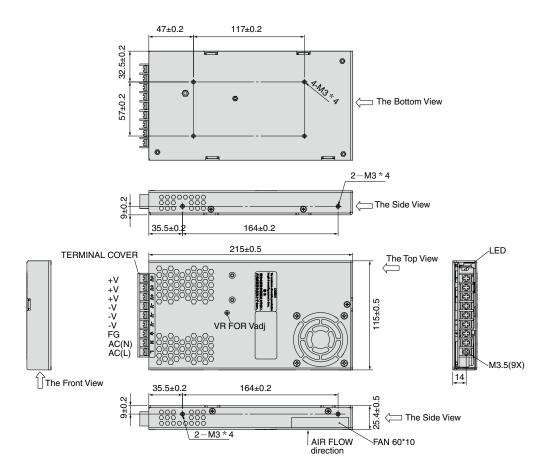
General Specifications

	MF300A5AG
Rated output voltage	5V
Output current range	60A
Rated output power	300W
Output voltage Adj. range	4.9-5.4V
Ripple & noise (p-p) * 1, 2	150mV
Output voltage tolerance * 1	± 5%
Hold time (typical) * 1	16ms
Input voltage range	90 ~ 264VAC (47-63Hz)
Input AC current (typical) * 1	5 / 2.5A
Inrush current (typical) * 1	60A (cold start)
Power factor (typical) * 1	0.99 (at 110V / 60A) 0.97 (at 230V / 60A)
Efficiency (typical) * 1	86% (at 110V / 40A) 85% (at 230V / 60A)
Leakage current (typical) * 1	1mA (MAX)
Over current protection * 3	110 - 130%
Over voltage protection * 4	5.75~6.95V
Over temperature protection * 4	90°C ± 5 (detect on heatsink of power transistor)
Temperature coefficient	< 0.03% /℃ (0-50℃)
Operating temperature	- 40 ~ +70℃ (refer to output derating curve)
Operating humidity	10 ~ 90%RH (non-condensing)
Storage temperature	- 40 ~ +85℃
Storage humidity	10 ~ 90%RH (non-condensing)
Cooling method	Forced air cooling by built-in fan
Withstand voltage	Input - Output: 3.0kVAC (15mA); Input - FG: 1.5kVAC (15mA)
Isolation resistance	>100MΩ Output -FG: 500VDC Ta=25℃ and 70%RH
Vibration	10-55Hz,10min. 1cycle, 2G Constant, X, Y, Z axes 1hour each
Safety	UL60950-1, CSA60950-1, EN60950-1, GB4943
EMI conduction & radiation	Compliance with FCC-Class B, EN55011/EN55022-B, CISPR22 Class B
EMS Immunity	Compliance with EN61000-4-2, 3, 4, 5, 6, 8, 11
Weight (typical)	900g
Reference dimension (L x W x H)	215 x 115 x 25.5 (mm)

Note:

- *1 At rated output power, rated input voltage (115 / 230VAC) and 25 $^{\circ}$ C of ambient temperature.
- *2 Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- *3 Constant current limit with automatic recovery. To avoid overload or short circuit for long time.
- *4 Shutdown output voltage, re-power on to recover.

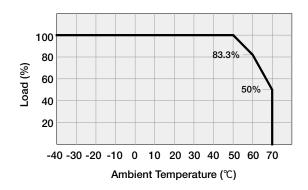
Mechanical Outline (unit: mm)



• Pin Configuration

Pin No.	Output	
1	AC input / L	
2	AC input / N	
3	FG ≟	
4、5、6	DC output -V	
7、8、9	DC output +V	

Derating Curve



Number System

Quick Selecti

LED Driver

- General Serie

- Outdoor Use

- H Series Class I

- H Series Class II

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Serie
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Serie

ED Driver ntelligent Series

LED Driver
Intelligent Series
40W Intelligent Series

ED Driver Intelligent Series 50W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Serie
- Other Series

General
Power Supplies
- MF Series

SPF

lumberin system

Quick

LED Driver

General Series

Outdoor Use
H Series Class I

- General Series
- Outdoor Use
- Half Potted Series

LED Driver - General Series - Outdoor Use - A Series

- General Series - Outdoor Use - Other Series

ED Driver
Outdoor Use
DALI Intelligent Ser

LED Driver - Intelligent Seri - 30W Intelligent Ser

LED Driver
- Intelligent Series
- 40W Intelligent Serie

LED Driver - Intelligent Serie

LED Driver
- Intelligent Series
- 96W Intelligent Series

- Intelligent Serie

Power Supplies

SPD

SPD-277

Features

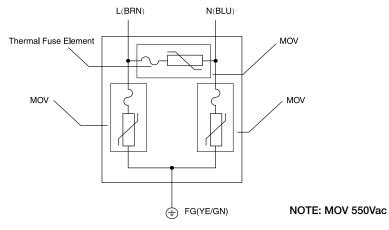
- SPD-277 is for use on 277V or universal voltage drivers or ballasts
- Protects against surges according to IEEE C62.41.2 C High (10kA and 10kV)
- Surge current rating = 10,000 Amps using industry standard 8/20 uSec wave
- \bullet High temperature, flameproof plastic enclosure, 85 $^{\circ}\!\mathbb{C}$ max surface temp rating
- Thermally Protected Transient Over-voltage Circuit
- Meet EN61643-11, IEC61643-11



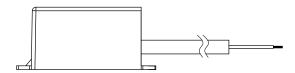
Electrical Specifications

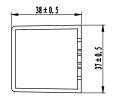
Working voltage	AC 277V, 47~63Hz	
Mcov (maximum continuous opearting voltage)	305V	
Up (voltage protection level, L-N, L-PG, N-PG)	1500V	
Surger rating (2ms)	360 Joules	
Imax (max discharge current)	10000A	
Surge current life (8/20us, 700A)	1000 times	

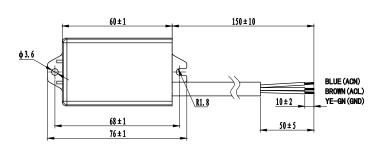
Diagram



■ Mechanical Outline (unit: mm)







0-10V Dimming Instructions for H Series

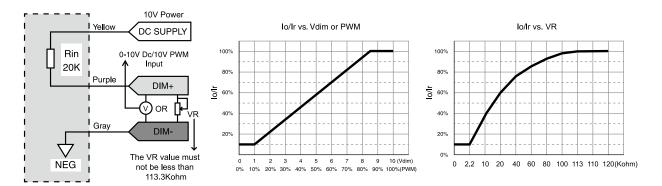
Dimming Signal Description

1.The dimmer control may be operated from an input signal of 0 - 10 VDC or 10V PWM.

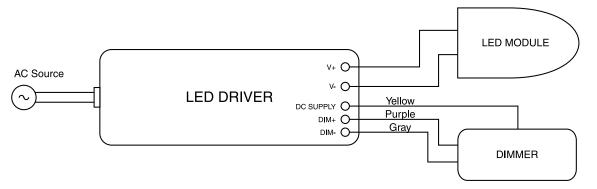
(Frequency range: 500 Hz - 5000 Hz, Duty cycle: 0-100%)

2. With one external variable resistor, the VR value must not be less than 113.3 Kohm.

Dimming Module Diagram and Dimming Cruve



0-10V Dimming Connection Diagram



Notes:

- 1. lo is actual output current with dimming control signal and Ir is rated output current.
- 2. The dimming control signal can be operated output current from 100% to 10% Ir, output voltage must be maintained above 50% of the rated output voltage.
- 3. Do not connect dimming wire to the output; otherwise, the LED driver can not work normally.
- 4. The dimming signal is allowed to be less than 1V/10% PWM, the output current can be maintained 10% Ir. (on/off function: optional, please feel free to contact us for details.)

Dimming Control Module Parameter (On Secondary Side)

Parameter	Min.	Typical	Max.
DC supply output voltage	10V	12V	14V
DC supply output current	0 mA	-	10 mA
Absolute maximum voltage on the DIM+	-2V	-	12V
Source current on the DIM+	0 mA	-	0.5 mA
Value of Rin (the resistor inside the LED driver which locate between the DIM+ and the DC Supply)	19.8K	20K	20.2K

Number System

Quick Select

LED Driver
- General Series
- Outdoor Use
- H Series Class I
- H Series Class II

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Serie

LED Driver
- Intelligent Series
- 30W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver
- Intelligent Serie

LED Driver
- Intelligent Series
- Other Series

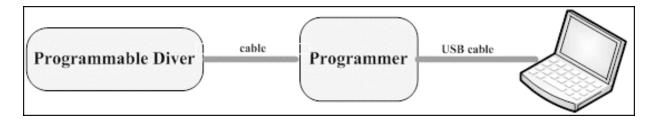
General
Power Supplie

SPD

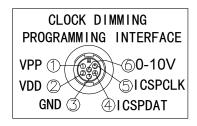
Append

Clock Dimming(CLK) Instructions for H Series

Field Programmable Topology

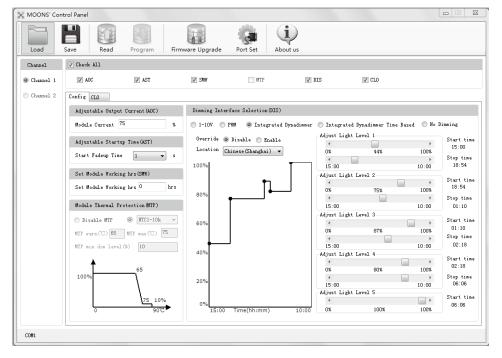


Dimming Interface Description



Pin	Definition	Description
1	VPP	Programming Model Enable
2	VDD	DC Supply Input
3	GND	DC Ground
4	ICSPDAT	Programming Data
5	ICSPCLK	Programming Clock
6	0-10V	0-10VDC Dimming Signal

Dimming Software Function Instruction



1. Adjustable Output Current(AOC)

Users can set the rated current between $10\% \sim 100\%$ by 1% per step.



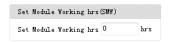
2. Adjustable Startup Time(AST)

At power ON, the fast fade-up of light can be unpleasant in certain applications. To avoid such a situation, the driver fade-up time at start-up can be programmed to a value among 0s, 1s, 2s, 5s, 10s, 20s, 40s. The default start fade up time is 1s.



3. Set Module Working Hours

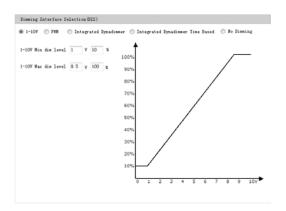
Used to reset the working hour counting in the microcontroller of the driver and collaborate with CLO.



4. Dimming Interface Setting(DIS)

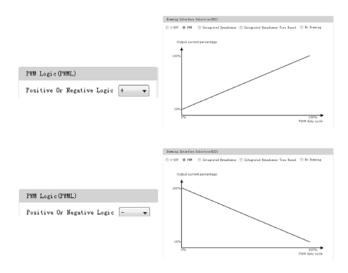
(1) 1-10V

Allow users to set the max and min output current and corresponding output voltage to clarify the 1-10V dimming curve.



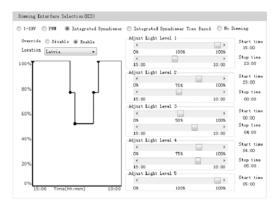
(2) PWM

Input a PWM signal from the 5th pin of the dimming interface to change the output current. PWM duty circle: 1%~99%(it has both positive and negative logics), frequency: 500Hz~5kHz, 3.3V~10V is high.

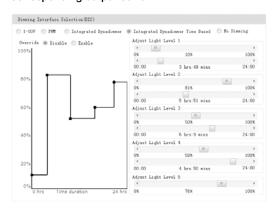


(3) Integrated Dynadimmer

Integrated Dynadimmer allows dimming to predefined light levels based on the nightly operating time. With flexibility in setting time and light levels, the user can configure the driver for specific locations and application needs. Using Integrated Dynadimmer, it is possible to set up to 5 dim levels and time intervals. The driver does not have a real time clock. Instead it runs a virtual clock, determined by the length of nightly operating hours. After 3 ON-OFF cycles, the driver will calculate the virtual clock time. A valid ON-time is defined as a period during which the driver operates continuously for \geq 4 hours to \leq 24 hours.



(4) Integrated Dynadimmer Time Based Allow users to separate 24hrs into 5 sections and corresponding output current.



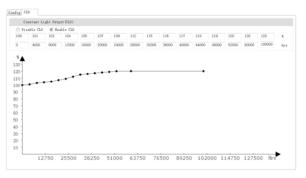
(5) No Dimming

The driver will be in constant output mode.



5. Constant Light Output(CLO)

The CLO feature enables LED solutions to deliver constant lumen output through the life of the light engine. Based on the type of LEDs used, heat sinking and driver current, it is possible to estimate the depreciation of light output for specific LEDs and this information can be entered into the driver. The driver counts the number of light source working hours and will increase output current based on this input to enable CLO.



Numberir System

Quick Selectio

LED Driver
- General Serie
- Outdoor Use
- H Series Class I

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Serie
- Outdoor Use
- A Series

LED Driver
- General Serie
- Outdoor Use
- Other Series

LED Driver - Outdoor Use - DALI Intelligent Serie

LED Driver - Intelligent Serie: - 30W Intelligent Serie

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Series

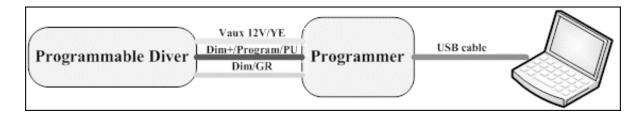
LED Driver
- Intelligent Series

LED Driver
- Intelligent Series
- Other Series
General

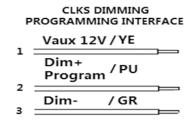
- MF Series

Clock Dimming(CLKS) Instructions for H Series

Field Programmable Topology

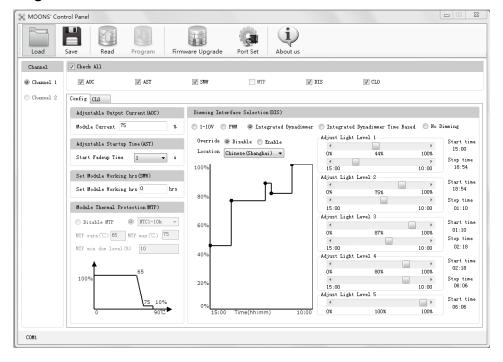


Dimming Interface Description



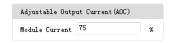
Pin	Name	Value	Description
1	Vaux 12V	10.8V-13.2V	Passive dimmers power supply
2	Dim+/Program	0-10V	Dimming/Programming input
3	Dim-	0V	DC Ground

Dimming Software Function Instruction



1. Adjustable Output Current(AOC)

Users can set the rated current between $10\% \sim 100\%$ by 1% per step.



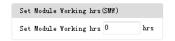
2. Adjustable Startup Time(AST)

At power ON, the fast fade-up of light can be unpleasant in certain applications. To avoid such a situation, the driver fade-up time at start-up can be programmed to a value among 0s, 1s, 2s, 5s, 10s, 20s, 40s. The default start fade up time is 1s.

Adjustable Startup 1	Time (AST)	
Start Fadeup Time	5 ▼	z

3. Set Module Working Hours

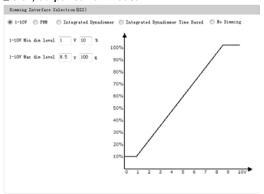
Used to reset the working hour counting in the microcontroller of the driver and collaborate with CLO.



4. Dimming Interface Setting(DIS)

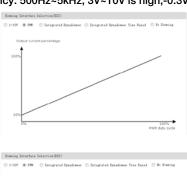
(1) 1-10V

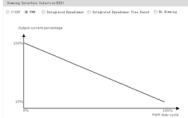
Allow users to set the max and min output current and corresponding output voltage to clarify the 1-10V dimming curve. Input a $0\sim10V$ signal from 2nd pin of the dimming interface. Default: input $\leq 1V$, output current 10%; input $\geq 8.5V$, output current 100%.



(2) PWM

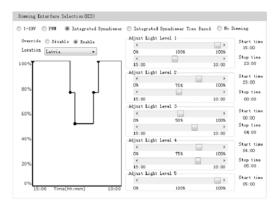
Input a PWM signal from the 2nd pin(Dim+/Program) of the dimming interface to change the output current. PWM duty circle: 1%~99%(it has both positive and negative logics), frequency: 500Hz~5kHz, 3V~10V is high,-0.3V~0.8V is low.



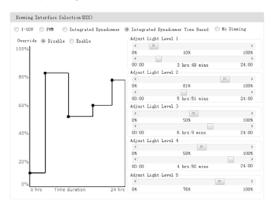


(3) Integrated Dynadimmer

Integrated Dynadimmer allows dimming to predefined light levels based on the nightly operating time. With flexibility in setting time and light levels, the user can configure the driver for specific locations and application needs. Using Integrated Dynadimmer, it is possible to set up to 5 dim levels and time intervals. The driver does not have a real time clock. Instead it runs a virtual clock, determined by the length of nightly operating hours. After 3 ON-OFF cycles, the driver will calculate the virtual clock time. A valid ON-time is defined as a period during which the driver operates continuously for \geq 4 hours to \leq 24 hours.



(4) Integrated Dynadimmer Time Based Allow users to separate 24hrs into 5 sections and corresponding output current.



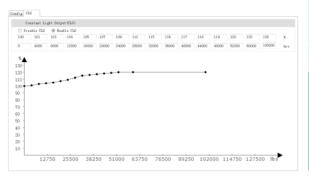
(5) No Dimming

The driver will be in constant output mode.



5. Constant Light Output(CLO)

The CLO feature enables LED solutions to deliver constant lumen output through the life of the light engine. Based on the type of LEDs used, heat sinking and driver current, it is possible to estimate the depreciation of light output for specific LEDs and this information can be entered into the driver. The driver counts the number of light source working hours and will increase output current based on this input to enable CLO.



Numberir System

Quick Selectio

LED Driver
- General Serie
- Outdoor Use
- H Series Class II

LED Driver
- General Serie
- Outdoor Use
- Half Potted Serie

LED Driver
- General Serie
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver
- Outdoor Use
- DALI Intelligent Seri

ED Driver Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Series
- 96W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

General
Power Supplies

SPD

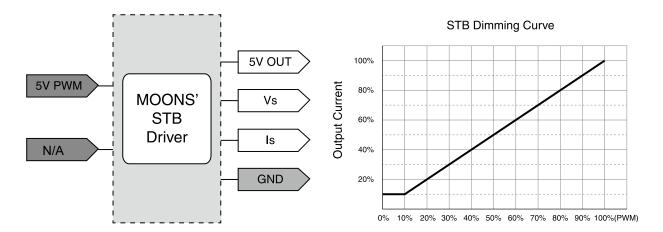
Appendix

Standby (STB) Instructions for H Series(No Turn-off function)

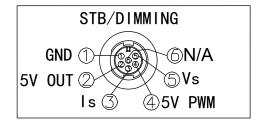
Dimming Signal Description

The dimmer control may be operated from an input signal of 5V PWM. (Frequency: 500 Hz~5000 Hz, Duty cycle; 0%~100%)

Dimming Module Diagram and Dimming Cruve



Dimming Interface Description



Pin	Definition	Description	
1	GND	DC Ground	
2	5V OUT	DC Supply Ouput	
3	Is	Current Feedback	
4	5V PWM	PWM Input Pin	
5	Vs	Voltage Feedback	
6	N/A	N/A	

Notes:

MOONS' STB Driver dimming interface with Standby controller, you can achieve the following functions:

- A_{ν} Dimming levels: 10% to 100%, continuously adjustable.
- B、Status query: output voltage/current status query.
- C、Output: 5V 300mA.

Dimming Control Module Parameter (On Secondary Side)

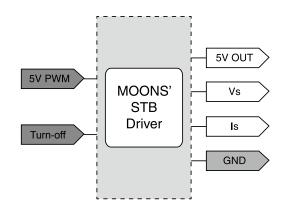
Parameter	Min.	Typical	Max.
5V output voltage	4.75V	5V	5.25V
5V output source current	-	300 mA	-
The voltage on the 5V PWM input pin	-	5.0V	5.25V
Source current on the 5V PWM input pin	0 mA	-	100uA
Frequency on the 5V PWM input pin	500Hz	-	5kHz
Duty cycle on the 5V PWM input pin	0%	-	100%
Voltage on the Vs output pin	0V	3.0V	3.6V
Voltage on the Is output pin	0V	3.0V	3.6V

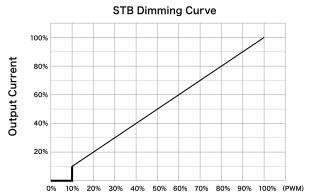
Standby (STB) Instructions for A Series(Turn-off function)

Dimming Signal Description

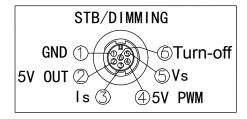
The dimmer control may be operated from an input signal of 5V PWM. (Frequency: 500 Hz~5000 Hz, Duty cycle; 0%~100%)

Dimming Module Diagram and Dimming Cruve





Dimming Interface Description



Pin	Definition	Description	
1	GND	DC Ground	
2	5V OUT	DC Supply Ouput	
3	Is	Current Feedback	
4	5V PWM	PWM Input Pin	
5	Vs	Voltage Feedback	
6	Turn-off	Turn-off Input Pin	

Notes:

MOONS' STB Driver dimming interface with Standby controller, you can achieve the following functions:

- $A_{\tiny \searrow}$ Dimming levels: 10% to 100%, continuously adjustable.
- B、Status query: output voltage/current status query.
- C、Output: 5V 300mA.

Dimming Control Module Parameter (On Secondary Side)

Parameter	Min.	Typical	Max.
5V output voltage	4.75V	5V	5.25V
5V output source current	-	300 mA	-
The voltage on the 5V PWM input pin	-	5.0V	5.25V
Source current on the 5V PWM input pin	0 mA	-	100uA
Frequency on the 5V PWM input pin	500Hz	-	5kHz
Duty cycle on the 5V PWM input pin	0%	-	100%
Voltage on the Turn-off input pin	4.75V	5.0V	5.25V
Source current on the Turn-off input pin	1 mA	-	-
Voltage on the Vs output pin	0V	3.0V	3.6V
Voltage on the Is output pin	0V	3.0V	3.6V

Number System

Quick

LED Driver
- General Serie
- Outdoor Use
- H Series Class I
- H Series Class II

- General Series
- Outdoor Use

LED Driver
- General Serie
- Outdoor Use

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver - Outdoor Use - DALI Intelligent Serie

ED Driver
Intelligent Series
30W Intelligent Series

ED Driver
Intelligent Series
40W Intelligent Series

LED Driver
- Intelligent Series

LED Driver - Intelligent Series

LED Driver - Intelligent Serie: - Other Series

General
Power Supplie
- MF Series

SPD

Appendi

Headquarters

168 Mingjia Road, Minhang District, Shanghai 201107,

P.R.China

Tel: +86 (0)21 52634688 Fax: +86 (0)21 52634098

Shenzhen Branch Office

Room 2209, 22/F, Kerry Center, 2008 Renminnan Road, Luohu District, Shenzhen 518001, P.R.China

Tel: +86 (0)755 25472080 Fax: +86 (0)755 25472081

Nanjing Branch Office

Room 302, Building A, Tengfei Creation Center, 55 Jiangjun Road, Jiangning District, Nanjing 211100, P.R. China

Tel: +86 (0)25 52785841 Fax: +86 (0)25 52785485

Wuhan Branch Office

Room 3001, World Trade Tower, 686 Jiefang Avenue, Jianghan District, Wuhan 430022, P.R.China

Tel: +86 (0)27 85448742 Fax: +86 (0)27 85448355

Xi'an Branch Office

Room 1006, Tower D, Wangzuo International City, 1 Tangyan Road, Xi'an 710065, P.R. China

Tel: +86 (0)29 81870400 Fax: +86 (0)29 81870340

Guangzhou Branch Office

Room 4006, Tower B, China Shine Plaza, 9 Linhe Xi Road, Tianhe District, Guangzhou 510610, P.R. China

Tel: 020-38010153 Fax: 020-38103661

Europe Branch:

MOONS' INDUSTRIES EUROPE S.R.L.

Via Torri Bianche n.1 20871 Vimercate (MB) Italy

Tel: +39 039 62 60 521 Fax: +39 039 96 31 409

U.S. Branch:

MOONS' INDUSTRIES (AMERICA), INC.

1113 North Prospect Avenue, Itasca, IL 60143 USA

Tel: +1 630 833 5940 Fax: +1 630 833 5946

APPLIED MOTION PRODUCTS INC.

404 Westridge Dr. Watsonville, CA 95076, USA

Tel: +1 831 761 6555 Fax:+1 831 761 6544

Beijing Branch Office

Room 816, Tower B, China Electronics Plaza, 3 Danling Street, Haidian District, Beijing 100080, P.R. China

Tel: +86 (0)10 58753312 Fax: +86 (0)10 58752279

Qingdao Branch Office

Room E, 10th Floor, 73 Wangjiao Mansion, Hongkong Middle Road, Shinan District,

Qingdao 266071, P.R. China Tel: +86 (0)532 85879625 Fax: +86 (0)532 85879512

Chengdu Branch Office

Room 1917, Western Tower, 19, 4th Section of South People Road, Wuhou District, Chengdu 610041, P.R.China

Tel: +86 (0)28 85268102 Fax: +86 (0)28 85268103

Ningbo Branch Office

Room 309, Tower B, Taifu Plaza, 565 Jiangjia Road, Jiangdong District, Ningbo, 315040, P.R. China

Tel: +86 (0) 574-87052739 Fax: +86 (0) 574-87052365

MOONS' International Trading Company

4/F, Building 30, 69 Guiqing Road, Cao He Jin Hi-Tech

Park, Shanghai 200233, P.R.China

Tel: +86 (0)21 64952755 Fax: +86 (0)21 64951993

South-East Asia Branch: MOONS' INDUSTRIES (SOUTH-EAST ASIA) PTE LTD.

33 Ubi Avenue 3 #08-23 Vertex Singapore 408868

Tel: +65 6634 1198 Fax: +65 6634 1138

Japan Branch:

MOONS' INDUSTRIES JAPAN CO., LTD.

Room 601, 6F, Shin Yokohama Koushin Building, 2-12-1, Shin-Yokohama, Kohoku-ku, Yokohama, Kanagawa, 222-0033, Japan

Tel: +81-(0)45-475-5788 Fax: +81-(0)45-475-5787



http://www.moons.com.cn E-mail: info@moons.com.cn

MOONS'
maving in better ways

• All specifications and technical parameters of the products provided in this catalog are for reference only, and are subject to change without notice. For details, please contact our sales team.