

MU075HxxxAQ_0-10V Series General - Outdoor

DWG NO.: MSSD-4778

■ Features · Input voltage: 90-305VAC · Built-in active PFC function: 0.99 Typ.

· Low THD: 10% Typ. · High efficiency: 91% Typ.

 \cdot IP67 design for indoor or outdoor installations

· High surge immunity

· Support 0-10V / 10V PWM / VR dimming function

· Compliance to worldwide safety regulations for lighting

· Suitable for dry/damp locations

Class 2 Note.4



					E348796			Note.4							
■ Speci	fication														
	Model														
(ML	J075H XXX AQ_0-10V)	035	045	053	070	105	140	175	210	245	280	315	350	420	500
,	Efficiency(110Vac)(Typ.) _{Note.1}	90%	90%	89%	89%	89%	88%	88%	87%	87%	86%	86%	85%	85%	84%
	Efficiency(220Vac)(Typ.) _{Note.1}	91%	91%	90%	90%	90%	89%	89%	88%	88%	87%	87%	86%	86%	85%
	Voltage Range (V) _{Note.2}			90 ~ 30	5Vac, OR	127~ 430\	/dc (Derati	ng may be	need unde	er low inpu	ts, Refer to	o 'Derating	Curve')	l	
	Voltage Rate (V) _{Note.2}							100Vac	-277Vac						
	Frequency Range (Hz)							47-	~63						
Input	Power Factor(Typ.)	0.99 (Typ.) with 70%~100% load,at 110Vac													
		0.96 (Typ.) with 70%~100% load,at 220Vac													
		>0.9 with 75%~100% load,at 277Vac													
	TUD/T \		10% Typical, at 220Vac input, with 70%~100% load conditions												
	THD(Typ.)		15% Typical, at 110/277Vac input, with 70%~100% load conditions												
	AC Current(Typ.)		1A at 110VAC input, 0.5A at 220VAC												
	Inrush Current(Max.)	at 230Vac input 25°C Cold Start (time wide=500uS, measured at 50% Ipeak,Not applicable for the inrush current to Noise Filter for less than 0.2													
	Leakage Current(Max.)	0.75mA at 277Vac/60Hz													
	Voltage range (V)	107~214	83~166	71-142	54~108	36~72	27~54	21~43	18~36	15~31	13~27	12~24	10~20	86% Filter for le 9~18 4200 75.60 21	7~15
	Rated Current(mA)	350	450	530	700	1050	1400	1750	2100	2450	2800	3150	3500	4200	5000
	Rated Power (W)	74.90	74.70	75.26	75.60	75.60	75.60	75.25	75.60	75.95	75.60	75.60	75.00	75.60	75.00
	Ripple&Noise Current(Typ.)	≤30%((PK-AV) /AV) with LED default mode and full load)													
Output	Current Tolerance _{Note.5}	±5%													
	Line Regulation	±1%													
	Load Regulation	±3%													
	Current ADJ. Range	10% to 100%, continuously adjustable													
	Turn on delay Time						<1.5s, a	t 110Vac;	<0.75s, at	t 220Vac				3 21	
	Over Voltage(V)	217	180	146	112	76	57	46	39	34	30	27	23	21	18
		Protection type: Limit the output voltage, recovers automatically after fault condition is removed													
Protection	Over Current		Protection type: constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed.												
	Short Circuit												10~20 9~1: 3500 4200 75.00 75.60 23 21 moved		
	Over temperature		_								ill shutdow			21 mperature	
			The power supply should resume its normal operation when the inside temperature of PSU drop to normal temperature												
	Operating Temp.						-40~+70		o 'Deratino	g Curve')				85% 84 86% 89 86% 89 9~18 7~ 4200 50 75.60 75	
	Tc								max						
Output	Operating Humidity								5%RH						
	Storage Temp., Humidity								, 10-95%R	!H					
	Temp. Coefficient							0.03%/℃							
	Vibration										J X、Y、Z			85% 86% 86% 9~18 4200 75.60	
	Safety Standard			UL8750, L	JL1012,UL							347-1, EN6	51347-2-13	3	
Safetv &	Withstand Voltage								6:1.875KV						
	Isolation Resistance				- FN				M Ohms/50			2.2			
	EMC Emission										EN61000				
	EMC Immunity		1		EN6.	1000-4-2,3					L/N-Earth		.,	.,	.,
UL Level	UL,CUL class 2		,.	,			V	V	V	V	V	V	V	V	V
	NON-UL,NON-CUL class 2	V	V	V	V	V	Ĺ			L	L	<u> </u>	Ĺ	85% 86% 86% 9~18 4200 75.60 21	
	MTBF		300,000 Hours, measured at full load,25°C ambient temperature 50,000 Hours at Tc 75°C (Refer to "Life Time VS. Tcase (Ref.)")												
Others	Lifetime					50,000 Ho		•			ase (Ref.)")			
	Dimension		173 x 67.5 x 40 (mm) (LxWxH)												
	Weight							0.8	2kg						

Note. 1: Measured at full load and steady-state temperature in 25°C ambient(Efficiency will be about 2% lower if measured immediately after startup); Note. 2: Derating may be needed under low to 'Derating Curve'; Note. 3: All parameters NOT specially mentioned are measured at 220VAC input , rated load and 25°C of ambient temperature; Note.4: see UL Level; Note.5: Includes set u and load regulation.

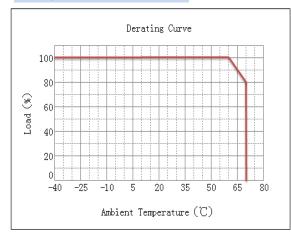
subject to change without notice Page 1 of 4

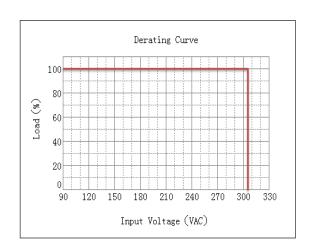
Downloaded from Arrow.com.

MU075HxxxAQ_0-10V Series General - Outdoor

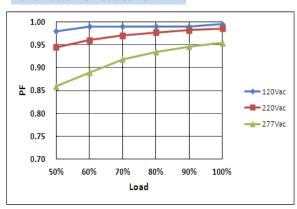
DWG NO.: MSSD-4778



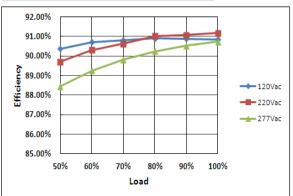




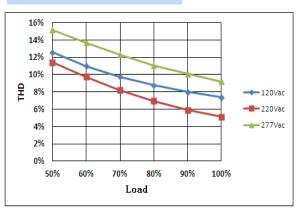
Power Factor VS. Load Curve



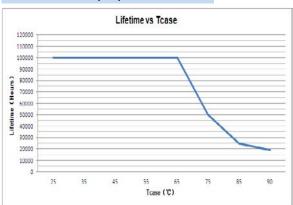




THD Curve



Life Time VS. Tcase (Ref.)



subject to change without notice

Page 2 of 4

SHANGHAI MOONS' AUTOMATION CONTROL CO., LTD.

Add: No.168, Mingjia Road, Shanghai 201107, P.R.China Tel: +86 (0)21 52634688 Website: www.moons.com.cn



MU075HxxxAQ_0-10V Series General - Outdoor

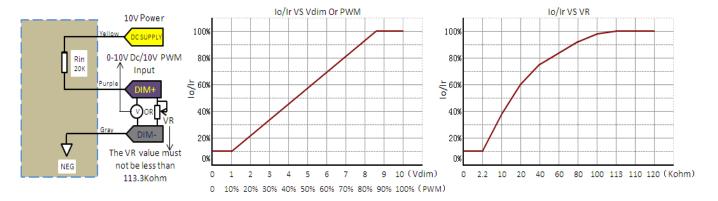
DWG NO.: MSSD-4778

ΔΛ

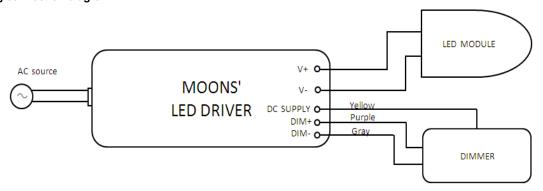
Dimming function description:

- 1. The dimmer control may be operated from an input signal of 0 10 Vdc / 10V PWM (Frequency range:500Hz to 5KHz, Duty: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:



Dimming connection diagram:



Notes:

- 1.lo is actual output current with dimming control signal and Ir is rated output current.
- 2The 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. (about on/off function specification please contact MOONS for details).

Dimming Control Module Parameter(On secondary side)

Parameter	Min.	Тур.	Max.	Notes
DC supply output voltage	8V	10V	12V	
DC supply output source current	0 mA	-	10 mA	
Absolute maximum voltage on the DIM+	-2V	-	12V	
Source current on the DIM+	0 mA	-	0.01 mA	
Value of Rin (the resistor inside the LED driver which locate between the DIM+ and the DC	19.8k	20k	20.2k	

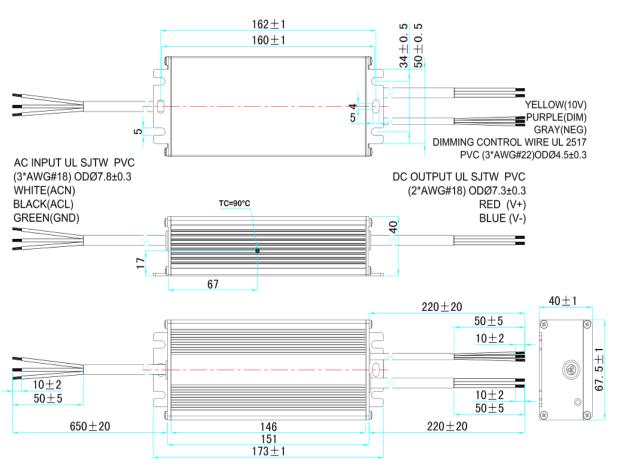
subject to change without notice

Page 3 of 4

DWG NO.: MSSD-4778

■ Mechanical Specification

1.Dimensions(Unit:mm)



RoHS Compliance:

Our products comply with the European Directive 2002/95/EC, calling for the elimination of lead and other hazardous substances from electronic products.

2.Terminal wire Type

Products	AC Input				DC output		Dimming control			
Troducts	Wire Type	Assignmen	Description	Wire Type	Assignmen	Description	Wire Type	Assignmen	Description	
UL apporval	UL SJTW PVC	BLACK/L	3*AWG#18	LIL O ITM DVO	RED/+	2*AWG#18	UL2517 PV СОDФ 4.5±0.3mm	YE/10V	3*AWG#22	
		WHITE/N			BLUE/-			PU/DIM+		
		GREEN/GI						GR/NEG		

subject to change without notice Page 4 of 4

Add: No.168, Mingjia Road, Shanghai 201107, P.R.China Tel: +86 (0)21 52634688 Website: www.moons.com.cn