

■ Features

- Power rating: 240W
- Input Voltage: 90-305Vac
- Constant Current Design
- Output Current (3100mA-7500mA)
- Selectable output current through potentiometer resistor
- Efficiency up to 93%
- Optional aux: 16V/0.35A, 12V/0.4A, 5V/0.45A
- Optional dimming function: 0-10V PWM, Resistor, Timing/Dim-to-off
- Safeties; UL/CCC/TUV/BIS/SAA/CE
- Protections: SCP, OTP, OVP
- IP67
- 7-year warranty
- Surge Protection: L/N-PE: 12KV, L-N 6KV



*Product images are for illustrative purposes only and may vary from actual design.

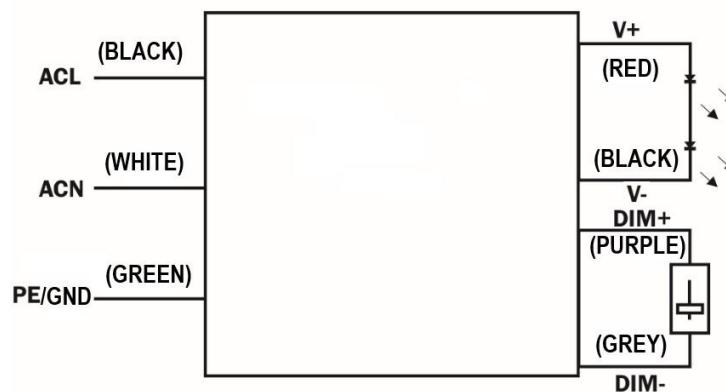
■ Application

- Indoor and outdoor applications

■ Model List

Model Number	Input Voltage Range	Output Power	Output Voltage	Output Current Min.	Output Current Max.	Efficiency	Certification
L3WCP240S750ST-E	90 ~ 305Vac	240W	24-38V	4400mA	7500mA	92.5%	UL/CCC/TUV BIS/SAA/CE
L3WCP240S570ST-E	90 ~ 305Vac	240W	32-54V	3100mA	5700mA	93%	UL /CCC/TUV BIS/SAA/CE

■ Wiring Diagram / Dimming



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■ Input Characteristics

Parameter	Min	Typ.	Max	Remarks
Rated AC input range	100Vac		277Vac	
AC input range	90Vac		305Vac	
Input frequency range	47Hz		63Hz	
Max input current			3.2A	90Vac, full load
Inrush current			80A	230Vac/50Hz, cold start
No load power		0.5W	1W	277Vac/50Hz, No load
Power factor	0.95	0.98		230Vac/50Hz, full load
	0.9			100-277Vac/50Hz, 70-100% Load
THD		8%	10%	230Vac/50Hz, full load
			20%	100-277Vac/50Hz, 70-100% Load

■ Output Characteristics

Parameter	Min	Typ.	Max	Remarks
Output voltage range	L3WCP240S750ST-E	24V	38V	Power derated @24-32Vdc
	L3WCP240S570ST-E	32V	54V	Power derated @24-32Vdc
Rated output voltage	L3WCP240S750ST-E	32V	38V	Po=Vo*Io=240W, full load
	L3WCP240S570ST-E	42V	54V	
Rated output current	L3WCP240S750ST-E	6.35A	7.5A	7.5A for 32V, 6.35A for 38V
	L3WCP240S570ST-E	4.45A	5.7A	5.7A for 42V, 4.45A for 54V
Current adjustable range	L3WCP240S750ST-E	4.4A	7.5A	Rated Io 70%-100% adjustable
	L3WCP240S570ST-E	3.1A	5.7A	
No load voltage	L3WCP240S750ST-E	38.5V	40V	41.5V
	L3WCP240S570ST-E	54.4V	56V	57.5V
Efficiency@230Vac	L3WCP240S750ST-E	91%	92.5%	Output 38V/6.35A
	L3WCP240S570ST-E	91.5%	93%	Output 54V/4.45A
Output current tolerance	-5%		+5%	
Output voltage ripple (pk-pk)		1%	2%	Full load
Output current ripple (pk-pk)		5%	10%	Full load
Start-up current overshoot			10%	
Start-up time		1S	2S	230Vac
Line regulation	-1%		+1%	Full load
Load regulation	-2%		+2%	

■ **Safety Compliance**

Certification	Standard	Status	Remark
UL/cUL	UL8750	√	
TUV	EN 61347-2-13:2014 EN61347-1:2008+A1:2011+A2:2013 EN62493:2015	√	
SAA	AS/NZS61347.2.13	√	
CCC	GB 19510.14-2009	√	
CE	EN 61347-2-13:2014 EN61347-1:2008+A1:2011+A2:2013	√	

Item	Standard	Remark
Insulation Strength	Input-output	3200Vac/5mA Max/60s Reinforced insulation
	Primary-Earth	1600Vac/5mA Max/60s Basic insulation
	Sec.- Earth	1000Vac/5mA Max/60s Function insulation
Insulation Resistance	Input-output	≥10 MΩ Testing Voltage: 500Vdc
Ground Resistor	≤0.1Ω	25A/1min
Leakage Current	≤0.75mA	277Vac

Item	Criterion	Remark
Conduction Emission	EN55015:2013+A1:2015	
Radiation Emission	EN55015:2013+A1:2015	
Harmonic Current Emissions	IEC/EN 61000-3-2	Class C
Surge	IEC/EN61000-4-5	Difference mode 6kV, Common mode 12kV Criterion B

■ **Safety Compliance**

Parameter	Min	Typ.	Max	Remarks
Operating Temperature	-40	25	60	
Storage Temperature	-40		85	
Operation Humidity	10%RH		90%RH	
Storage Humidity	5%RH		95%RH	
Altitude	-65m		4,000m	
Cooling method	Air Cooling			

■ **Other Characteristics**

Parameter		Min	Typ.	Max	Remarks
Aux Levels (optional)	5V	4.9V	5V	5.1V	Aux level optional; Aux should share same ground as DIM-
	5V	0mA		450mA	
	12V	11.76V	12V	12.24V	
	12V	0mA		400mA	
	16V	15.68V	16V	16.32V	
	16V	0mA		350mA	
0-10V Dimming (optional)	Dim Vmax	0V		14V	3 in 1 Dimming; 0-5V Dimming optional; Negative Logic Dim Optional
	Dim Range	10% Io max		100% Io set	
	Voltage	1V		10V	
	OFF	0.3V	0.5V	0.7V	Dim-off value
	On	0.5V	0.7V	0.9V	
PWM Dimming (Optional)	High	5V		10V	
	Low	-0.3V		-0.6V	
	Frequency	200Hz		2KHz	
	PWM Duty	1%		99%	
Resistor Dimming (optional)	Resistance	10K Ohm		100K Ohm	
	Dimming	10% Io max		100% Io Set	
Timing Curve (optional)	IC Control	By Programming			Typically, 3-4 sections
	Timing	5H/6H/7H/8H per section			Default Mode: 24 Hour/Circle with 50% load
Protection	OTP	90°C	100 °C	110 °C	Tc, Self-recovery
	Short Circuit Protection	Driver will not damage with short circuit power <10W			Hiccup mode
Life Time		55,000hrs			230Vac full load, Tc 75°C
MTBF		200,000hrs			230Vac full load, Ta=25°C, (MIL-HDBK-217F)
Temperature Coefficient		-0.03%/°C			0°C~90°C
Tc		90°C			
Warranty		7 years			Tc 75°C
Net Weight		1300g			
Dimension		244x69x40mm			LxWxH
Packaging		1.3kg /unit; 15pcs/carton			

■ Performance Curves

Fig. 1 O/P Voltage VS Output Current

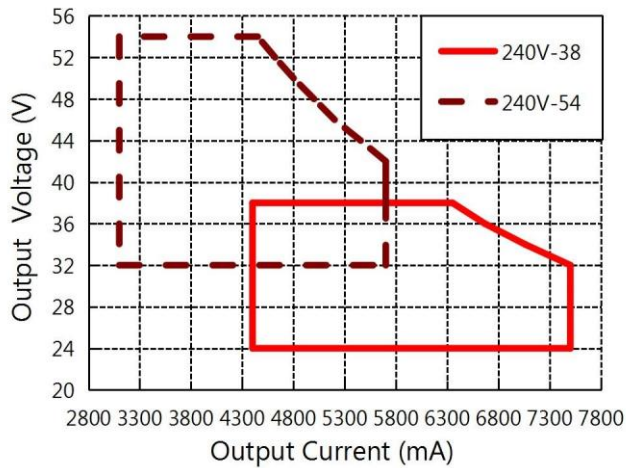


Fig. 2 O/P Power VS Ambient Temperature

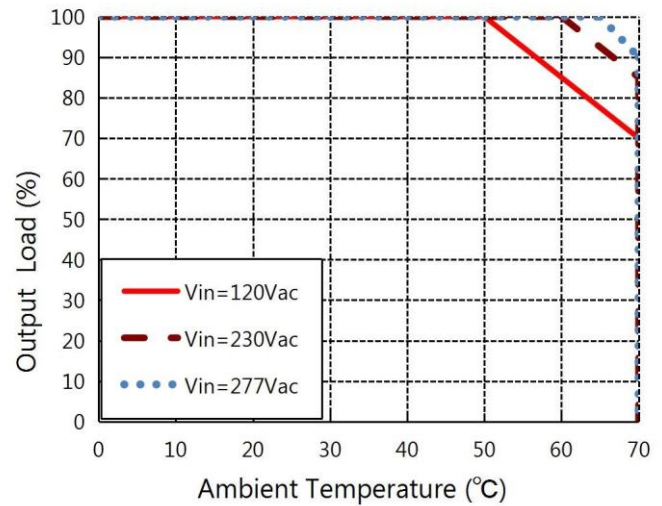


Fig. 3 Power Factor VS Output Power

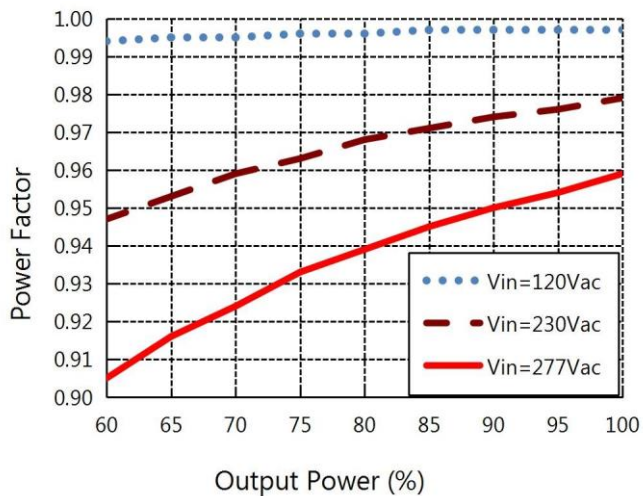
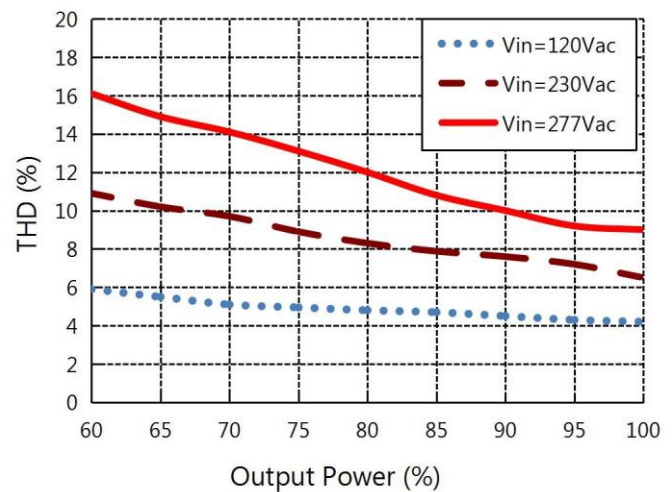


Fig. 4 THD VS Output Power



■ Performance Curves(cont.)

Fig. 5 Efficiency VS Output Power

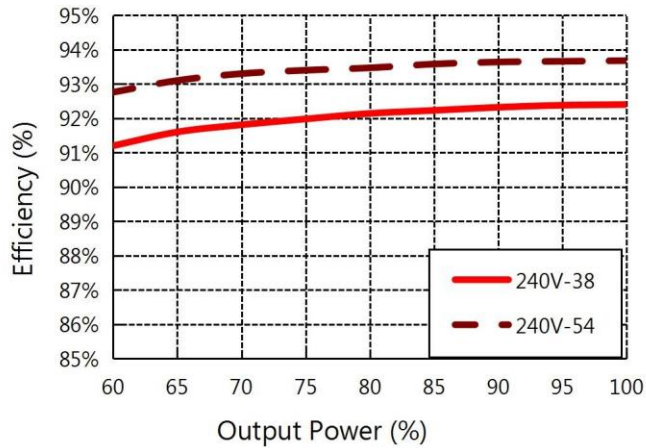


Fig. 6 Lifespan VS Case Temperature

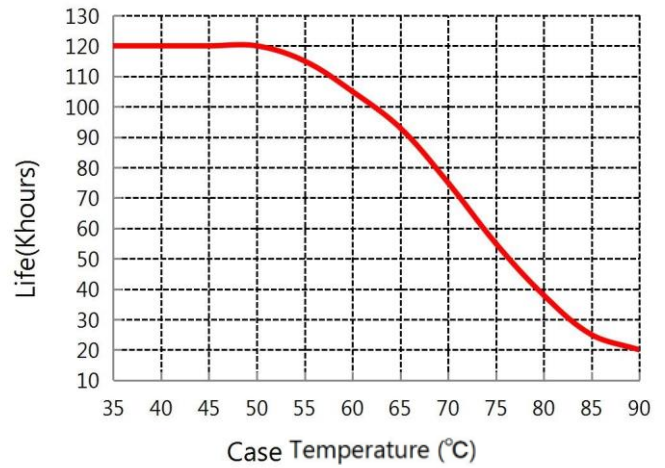
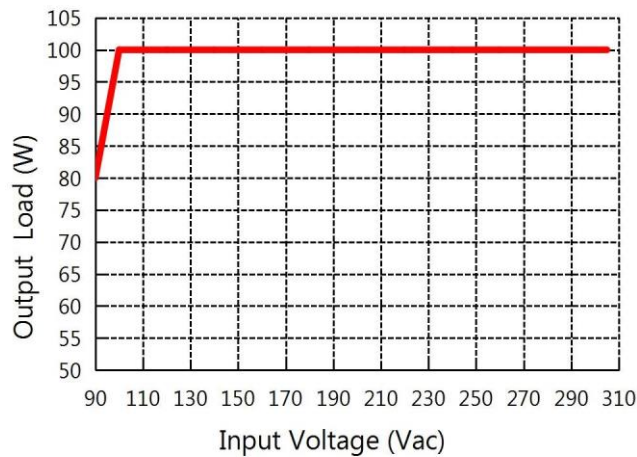


Fig. 7 Output Power VS Input Voltage



■ Dimming

0-10V Dimming (Typ.)

Voltage Range	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	Open
Rated Current Percentage	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95-108%

PWM Duty	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	Open
Rated current percentage	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95-108%

Resistor(Typ.)

Resistor	10KΩ	20KΩ	30KΩ	40KΩ	50KΩ	60KΩ	70KΩ	80KΩ	90KΩ	100KΩ	Open
Rated Current Percentage	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95-108%

■ Dimming Curve

Fig. 8 0-10V Dimming Curve

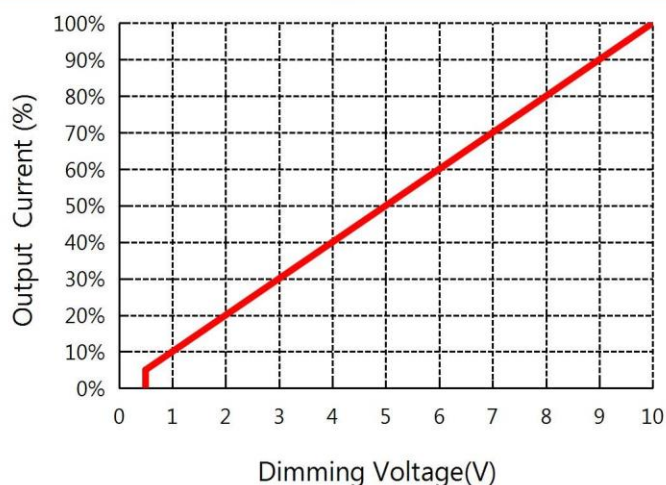
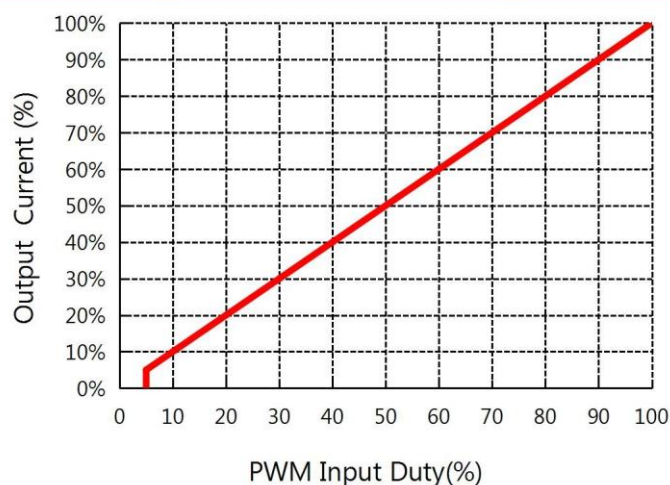
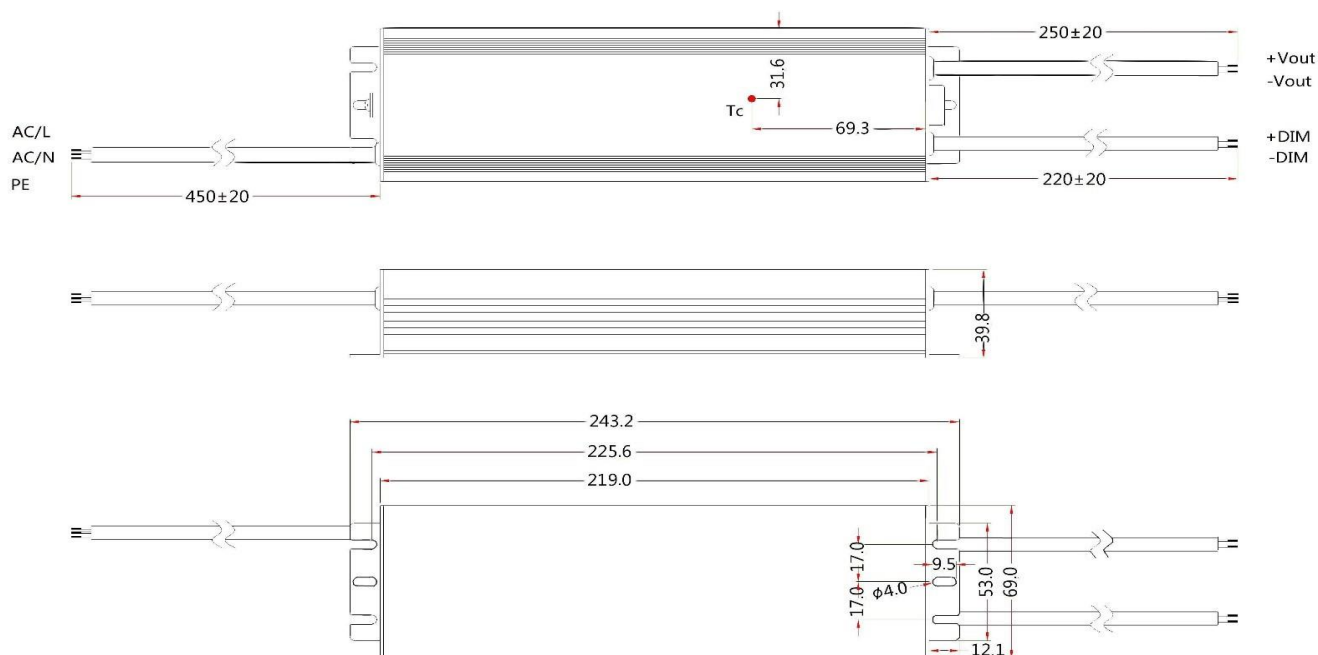


Fig. 9 PWM Dimming Curve



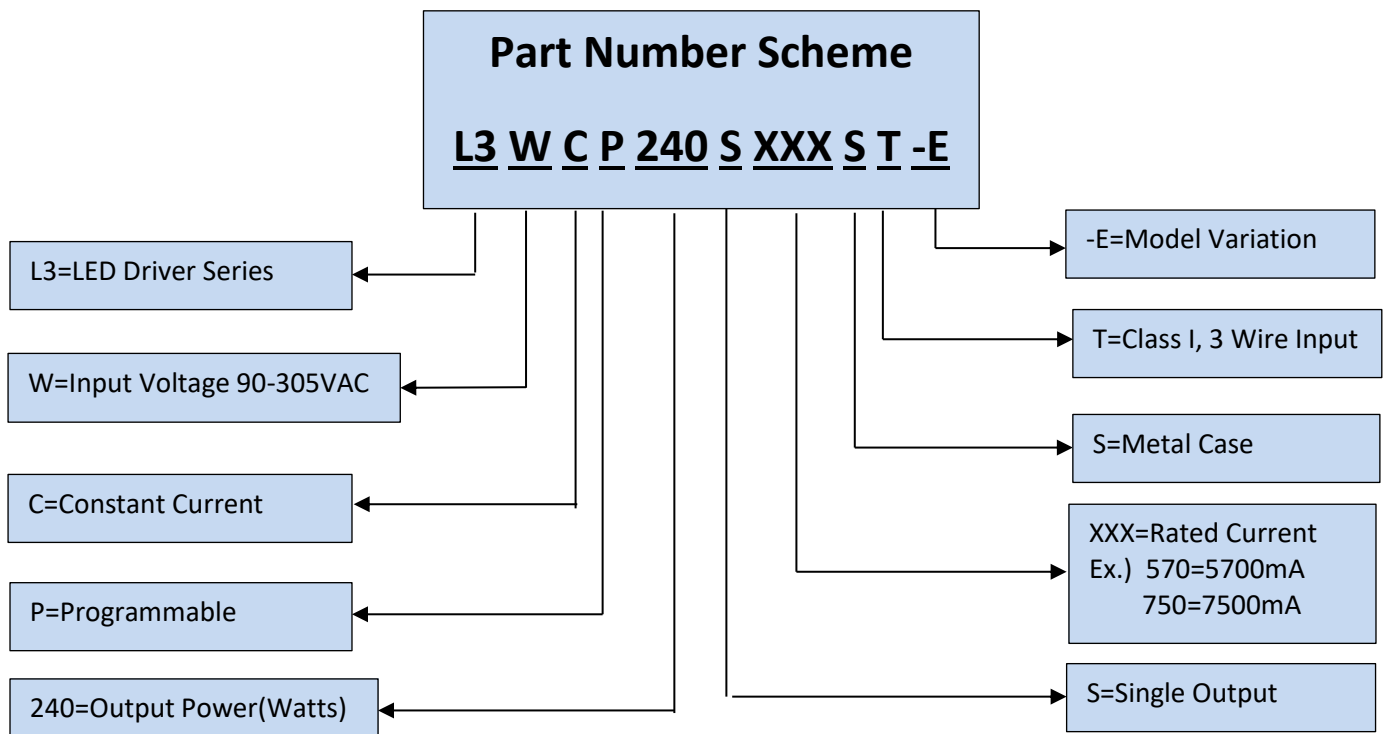
■ Mechanical Diagram



Wire Specifications	
Input	UL SJTW #18AWG 3*0.824 mm ² , O.D: 7.8mm, GREEN: PE, BLACK: L, WHITE: N
Output	UL SJTW #14AWG 2*2.0 mm ² , O.D: 8.9mm, RED: V+, BLACK: V-
DIM	SJTW #18AWG 2*0.824 mm ² , O.D: 7.6mm, PURPLE: DIM+, GREY: DIM-
Aux +DIM (optional)	STYLE 2733 #22AWG O.D: 6.0mm, PURPLE: DIM+, GREY: DIM-, RED: VCC

■ Installation

1. It is Highly recommended to seal the adjustable hole with silicon glue (#704 preferred) after adjusting the driver's output current. Do not use too much torque to avoid permanent damage to the potentiometer inside.
2. Remove the outer screw for Hi-pot test, fasten it back, and connect the metal case appropriately after test to maintain the 12kV/6kV surge protection per IEC 50598-1-10.2.
3. If the dimming wire is not in use, please use the insulating bush to cover the dimming wire, in case the interfering signal causes damage to the dimming wire, causing the driver to work abnormally.



***Product images are for illustrative purposes only and may vary from actual design.**

***Specifications are subject to change without notice. Autec is not responsible for issues arising from errors or omissions.**

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