



Phase cut /Triac dimmable driver-PWM output

F-150W



■Features

- Output constant voltage
- UL, cUL listed, Type HL
- Universal AC input: 110-277VAC
- Power Factor: up to 0.99
- High efficiency : up to 87%
- Dimming range: 0-100%
- Load: 10-100%
- Protection: short circuit/over loading/ Over temperature
- PWM output, does not change the color index
- Full protection aluminum housing, for dry, damp and wet location
- Flicker-free
- Dimming function:
 - Phase dimming: work with forward phase /leading edge ,MLV and Reverse phase /trailing edge ,ELV, TRIAC dimmers
- Suitable for LED lighting and moving sign applications



TYPE HL



Model		F-150W-12V	F-150W-24V
Certificates		FCC UL cUL	
Output	DC Voltage	12V	24V
	Rated Current	12.5A	6.25A
	Rated Power	150W	
	Voltage Tolerance	±0.5V	
	Voltage Regulation	±0.5%	
	Load Regulation	±2%	±1%
Input	Voltage Range	110-277VAC	
	Frequency Range	47-63Hz	
	Power Factor (Typ.) @ full load	0.98@120VAC 0.95@277VAC	0.99@120VAC 0.94@277VAC
	THD (Typ.) @ full load	<20%	
	Efficiency (Typ.) @ full load	85%@120VAC 86%@277VAC	85%@120VAC 87%@277VAC
	AC Current (Max.)	1.8A@110VAC	
	Inrush Current (Typ.)	15A, 50%, 1.4ms @120Vac	30A, 50%, 1.4ms @277Vac
	Leakage current	<0.50mA	
Protection	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition is removed	
	Over Loading	≤120% constant current limiting, auto-recovery	
	Over temperature	100°C±10°C shut down o/p voltage, automatically recover after cooling.	
Environment	Working TEMP.	-40~+60°C (see below derating curve)	
	Working Humidity	20~95%RH, non-condensing	
	Storage TEMP. Humidity	-40~+80°C, 10~95%RH	
	TEMP .coefficient	±0.03%/°C (0~50°C)	
	Vibration	10~500Hz, 5G 10min./1 cycle, period for 60min. each along X, Y, Z axes	
Safety& EMC	Safety standards	UL8750	
	Withstand voltage	I/P-O/P:1.88KVAC	
	Isolation resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH	
	EMC EMISSION	FCC Part 15 B	

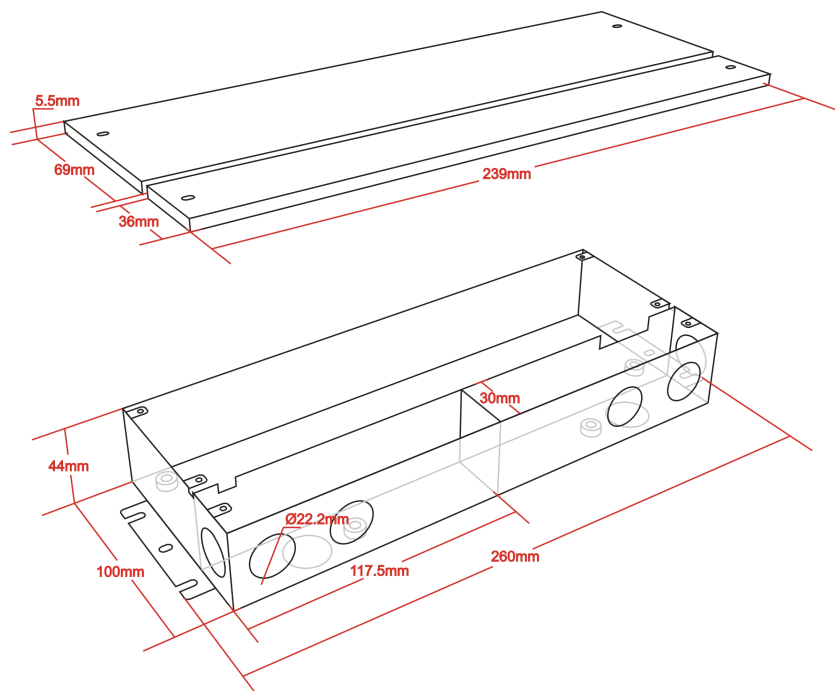


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others	Net. Weight	1.8Kg
	Size	260*105*45mm (L*W*H)
	packing	10PCS/CTN
Notes	1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25°C of ambient temperature. 2. To extend the driver's using life ,please reduce the loading at lower input voltage.	

■ Mechanical Specification



Unite: mm

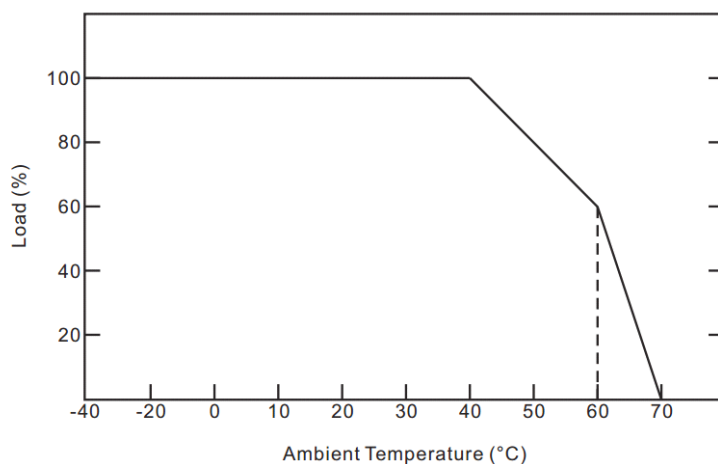
Tolerance: P 0.5-2mm

JM96-A1 housing

260(L)*105(W)*45(H) mm

- ※ Input wire 18AWG Black and White to be connected to AC L and N ,Green wire go ground,
- ※ Output wire 16AWG Red to LED Positive side (+) , Black to LED Negative side (-).

■ Derating Curve



- ※ To extend their life, please refer to the Derating Curve and derate according to the temperature.



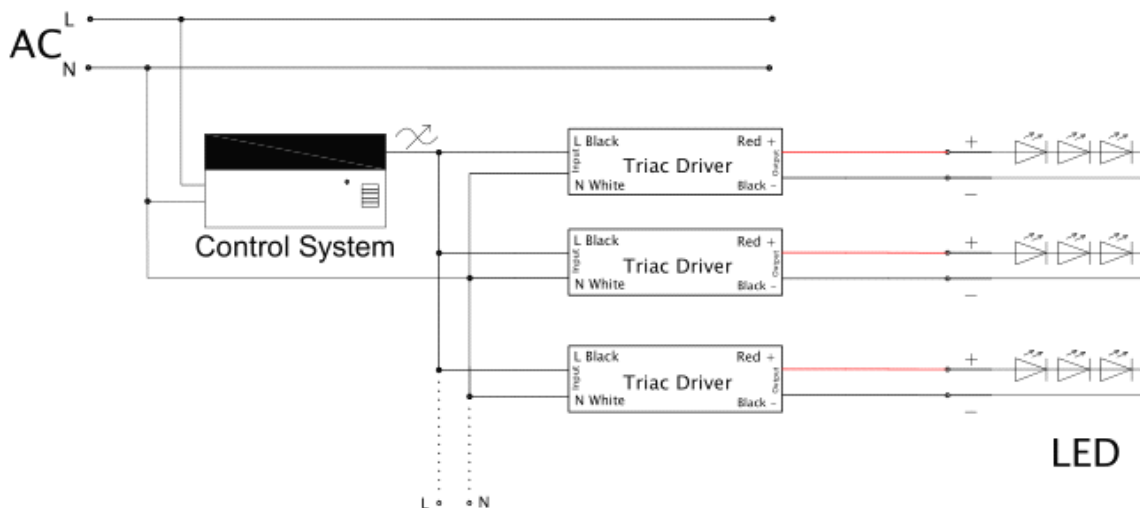
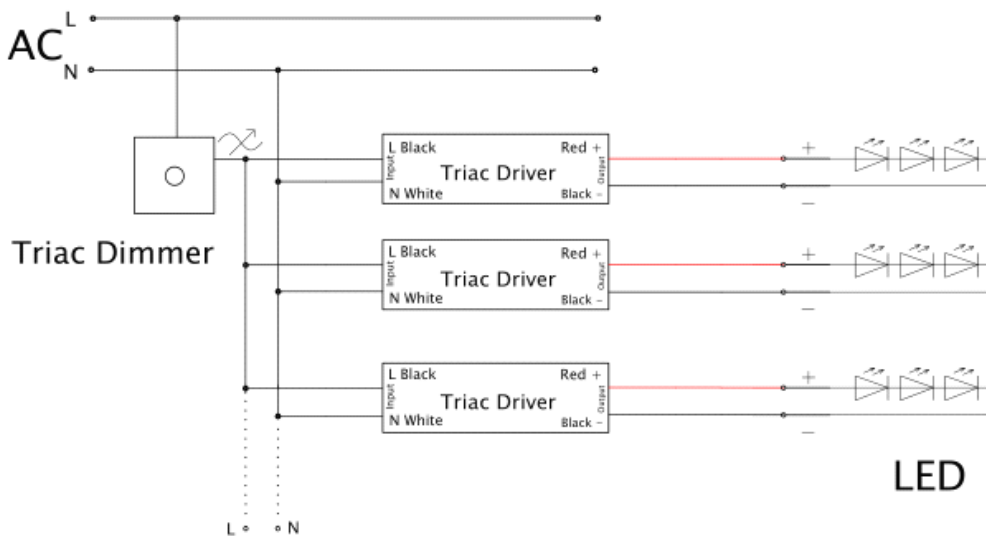
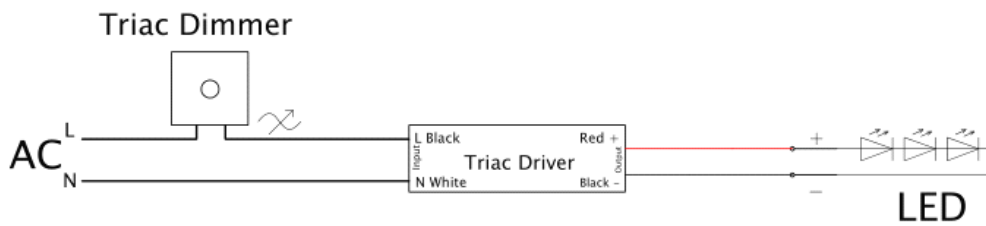
■ Dimming Operation

※ The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase/ Triac dimmer.

※ Usually matching with Forward phase , leading edge , Magnetic low voltage, Triac dimmers, or Reverse phase, trailing edge ,Electric low voltage Dimmers.

※ Please try to use dimmers with power at least 1.5 times as the output power of the driver.

■ Connecting Diagram





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■ Instruction:

- 1) This driver should be installed by qualified and professional person;
- 2) Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
- 3) Ensure that wiring is correct before test in order to avoid light and power supply damage.