

8400-60W-12V-5

Triac/0-10V/1-10V/Potentiometer/10V PWM 5 in 1 Dimmable led driver

Class 2 multi-channels 60W



■Features

- Output constant Voltage, class 2
- UL, cUL listed, Class 2, Type HL
- Range: 110-277VAC
- Built-in active PFC function
- Efficiency up to 91%
- Protections: short circuit/over load/ over temperature
- Cooling by free air convection
- Full protection metal housing, for dry ,damp and wet locations
- Flicker-free
- PWM output, does not change the color index
- Dimming function:
 - Phase dimming: work with forward phase /leading edge ,MLV and Reverse phase /trailing edge ,ELV,TRIAC dimmers
 - 0-10V dimming: 0-10V/1-10V/Potentiometer/10V PWM 4 in 1
 - Dimming range: 0-100%
 - Suitable for LED lighting and moving sign applications



Class 2
TYPE HL



■Specification

Model		8400-60W-12V-5 (5 in 1)
Certificates		UL cUL FCC
Output	DC Voltage	12V
	Rated Current	5A
	Rated Power	60W
	Voltage Tolerance	±0.5V
	Voltage Regulation	±0.3%
	Load Regulation	±1%
Input	Voltage Range	110-277VAC
	Frequency Range	47-63Hz
	Power Factor (Typ.) @ full load	0.99@120VAC 0.99@277VAC
	THD (Typ.) @ full load	<20%
	Efficiency (Typ.) @ full load	88%@120V 91%@277VAC
	AC Current (Max.)	0.9A@100VAC
	Inrush Current (Typ.)	14A ,50%,780us
	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% Hiccup mode ,recovers automatically after fault condition is removed
	Over temperature	100℃±10℃ shut down o/p voltage, automatically recover after cooling.
Environment	Working TEMP.	-40~+60℃ (see below derating curve)
	Working Humidity	20~90%RH, non-condensing
	Storage TEMP. Humidity	-40~+80℃, 10~95%RH
	TEMP .coefficient	±0.03%/℃ (0~50℃)
	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℃/70%RH
	EMC EMISSION	FCC 47 CFR Part 15 ,Subpart B

Triac/0-10V/1-10V/Potentiometer/10V PWM 5 in 1 Dimmable led driver

Class 2 multi-channels 60W

others	Net. Weight	1.1Kg
	Size	188*92*26mm (L*W*H)
	packing	10pcs /CTN
Notes	<p>1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25℃of ambient temperature.</p> <p>2. To extend the driver's using life ,please reduce the loading at lower input voltage.</p>	

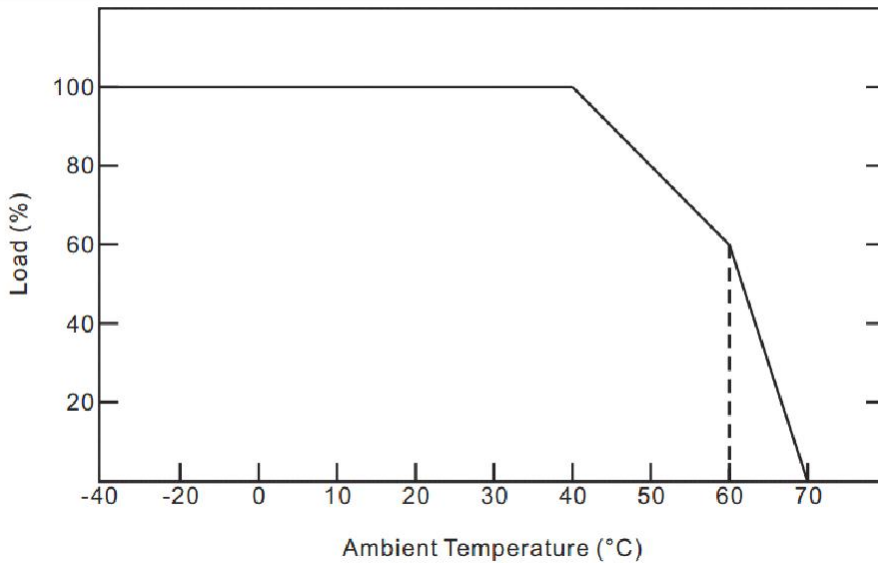
■ Mechanical Specification

- ※ Input wire 18AWG Black and White to be connected to AC L and N ,Green wire go ground,
- ※Output cable 16AWG,Red" (+) to LED Positive side (+) , "Black"(-) to LED Negative side (-).
- ※Dimming cable 18AWG,DIM (+) Purple to 0/1-10V dimmer signal(+),DIM (-) Grey to 0/1-10V dimmer signal (-)
- ※Please DO NOT connect "DIM-" to "LED-", "DIM+" to " LED+", or other incorrect connection.
- ※Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged.
- ※Note: Any other requests we can customized.

Triac/0-10V/1-10V/Potentiometer/10V PWM 5 in 1 Dimmable led driver

Class 2 multi-channels 60W

■ Derating Curve

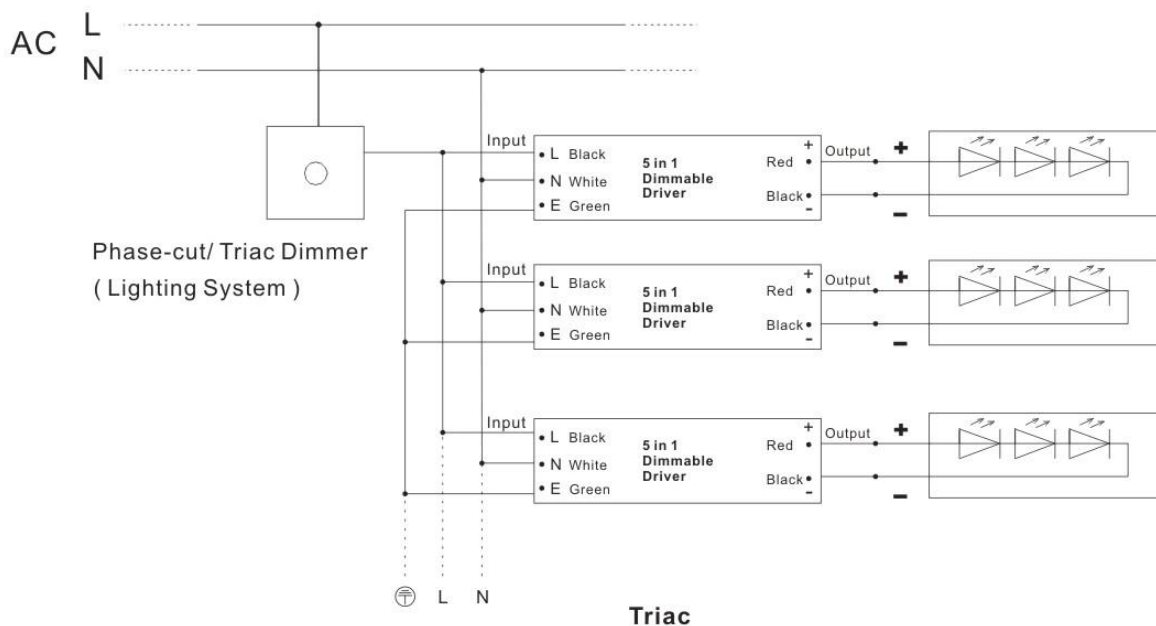


※To extend their life, please refer to the Derating Curve and derate according to the temperature.

■ Dimming Operation and Connecting Diagram

※Using one dimming ---TRIAC/Phase cut dimming

1. 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 of lighting system.
2. Working with forward phase /leading edge ,MLV and Reverse phase /trailing edge ,ELV,TRIAC dimmers
3. Min loading is about 10%
4. Please try to use dimmers with power at least 1.5 times as the output power of the driver.



Class 2 multi-channels 60W

※ 0-10/1-10V dimming

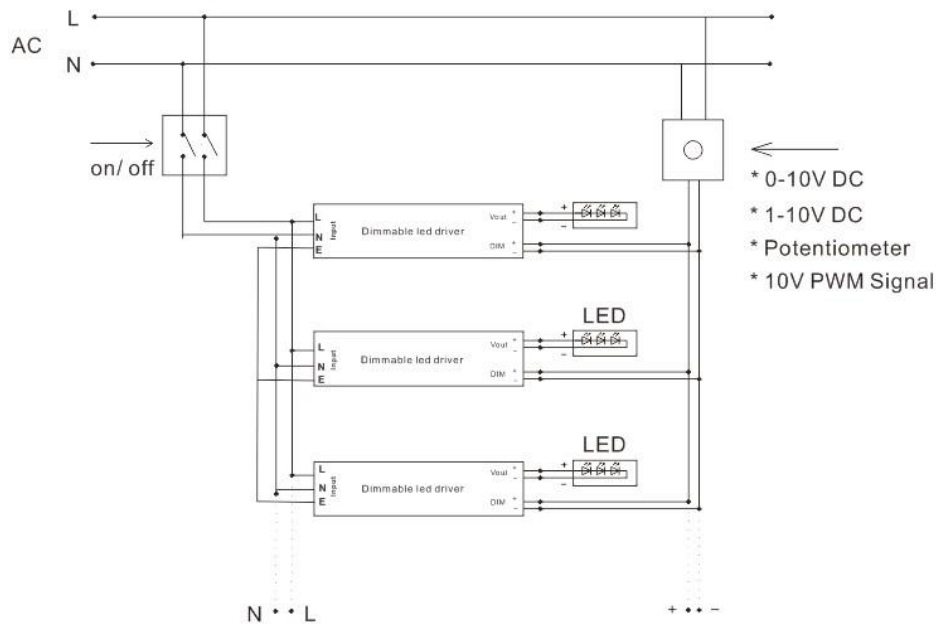


Diagram 1

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

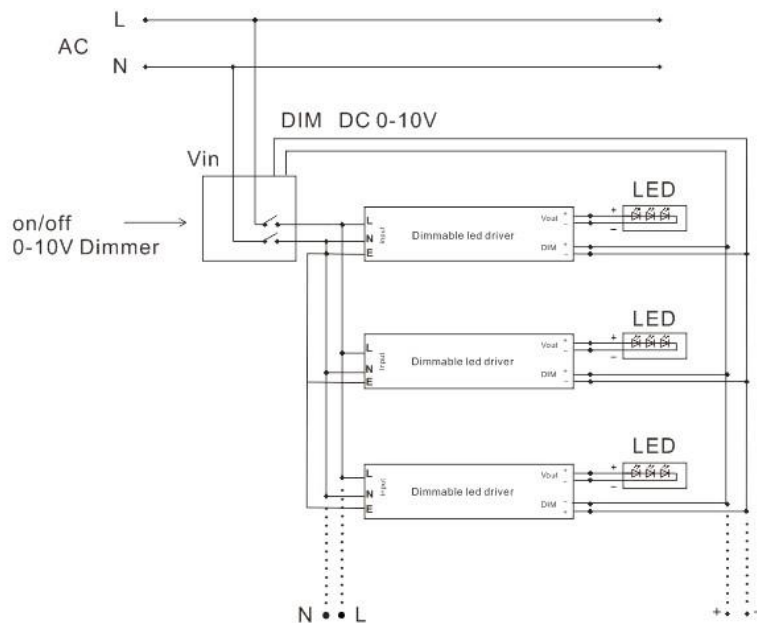


Diagram 2

■ 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;
- 4) If driver Cannot work normally, don't maintain privately.

Please visit our website or contact us for more information