

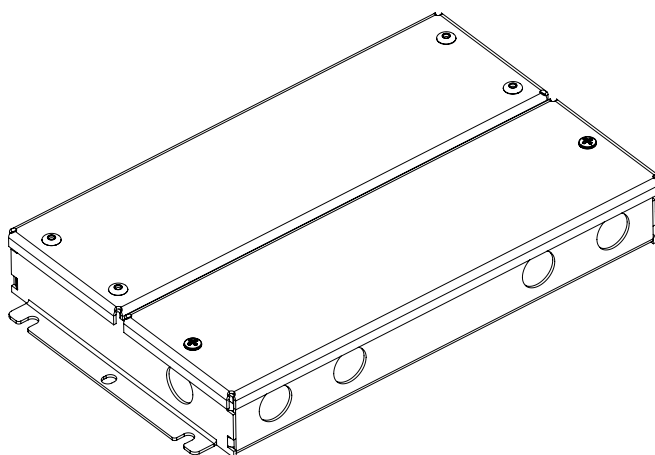
JOYOLIGHT

2020-04

JLM-288-24-JP2

SPEC

POWER



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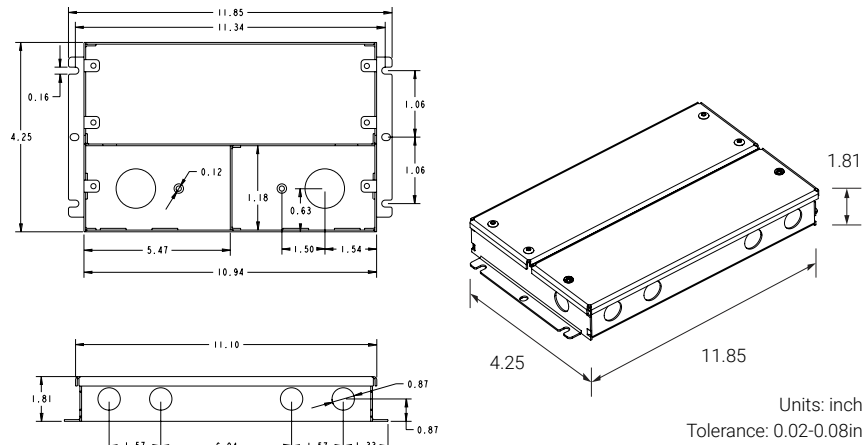
Features

- Output constant Voltage, class 2 multi-channels
- UL, cUL listed, Class 2, Type HL
- Range: 100-277VAC
- 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
- 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

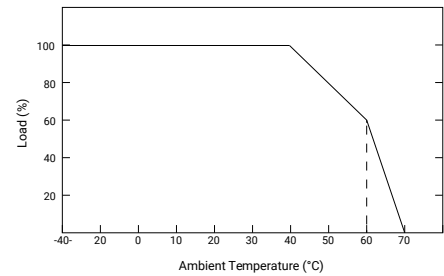
Class 2
TYPE HL

JLM-288-24-JP2		
Certification		UL cUL FCC
Output	DC Voltage	24V
	Rated Current	3*4A
	Rated Power	288W (3*96W)
	Voltage Tolerance	±0.5V
	Voltage Regulation	±0.5%
	Load Regulation	±1%
Input	Voltage Range	100-277VAC
	Frequency Range	47-63Hz
	Power Factor (Typ.) @ full load	0.99@120VAC 0.95@277VAC
	THD (Typ.) @ full load	<20%
	Efficiency (Typ.) @ full load	87%@120V 91%@277VAC
	AC Current (Max.)	3.4A@100VAC
	Inrush Current (Typ.)	35A ,50%,960us @120VAC ; 43A,50%,1ms @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% Hiccup mode, recovers automatically after fault condition is removed
	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	20~90% 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 + UL1310
	Withstand voltage	I/P-O/P: 1.88KVAC
	Isolation resistance	I/P-O/P: 100MΩ/ 500VDC/ 25°C/ 70%RH
	EMC EMISSION	FCC 47 CFR Part 15, Subpart B
Others	Net. Weight	2.2Kg
	Size	301*108*46mm (L*W*H)
	packing	8 pcs/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



DERATING CURVE



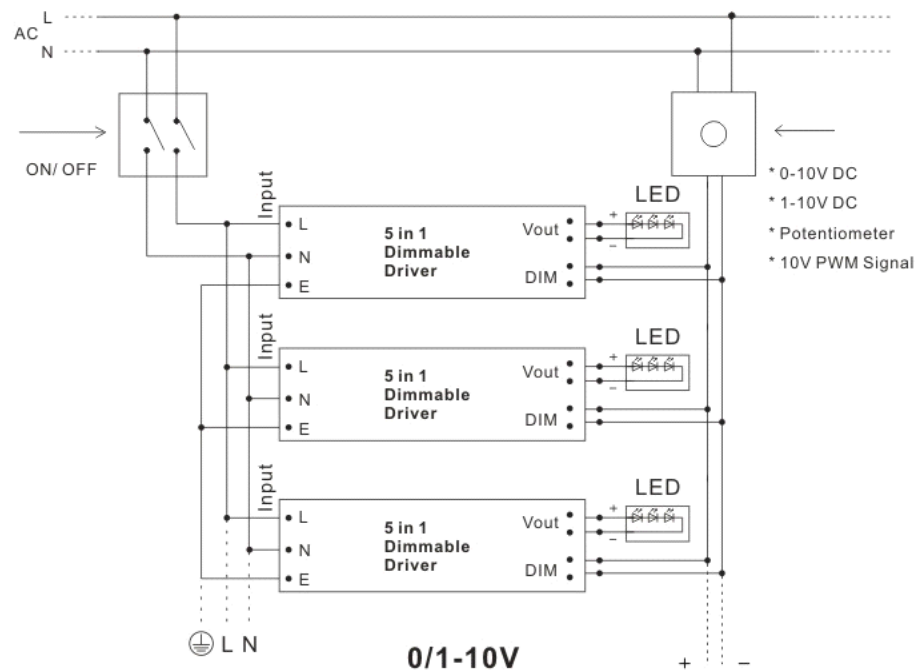
• To extend their life, please refer to the Derating Curve and derate according to the temperature.

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

CONNECTING DIAGRAM

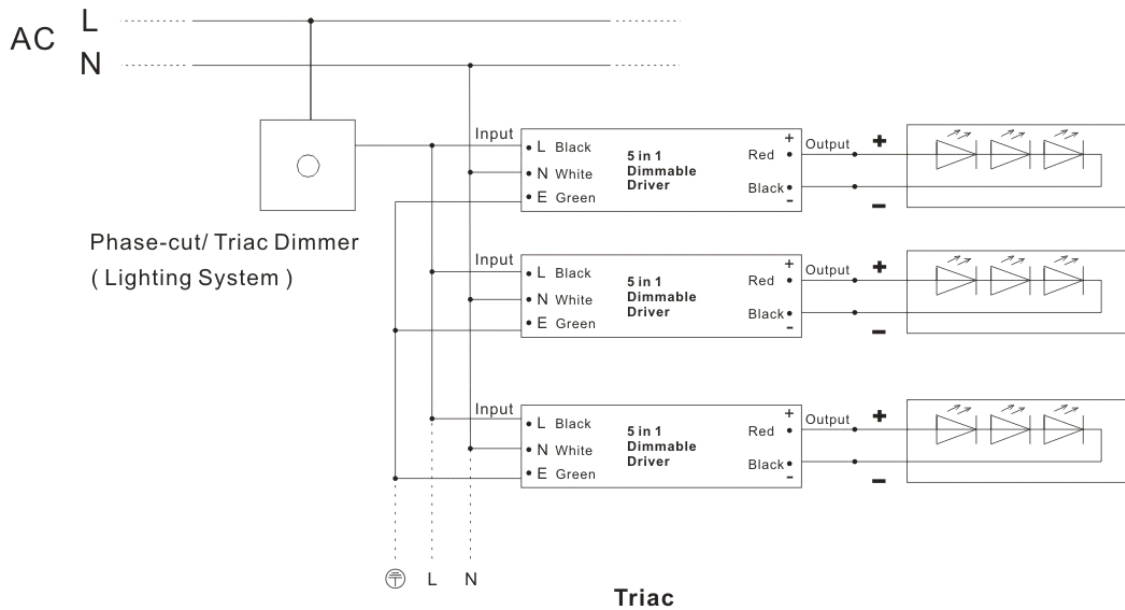
• Using two ways of dimming at the same time

You must be assured that LED lighting is up to the max. Brightness then you could operate with the other dimming.

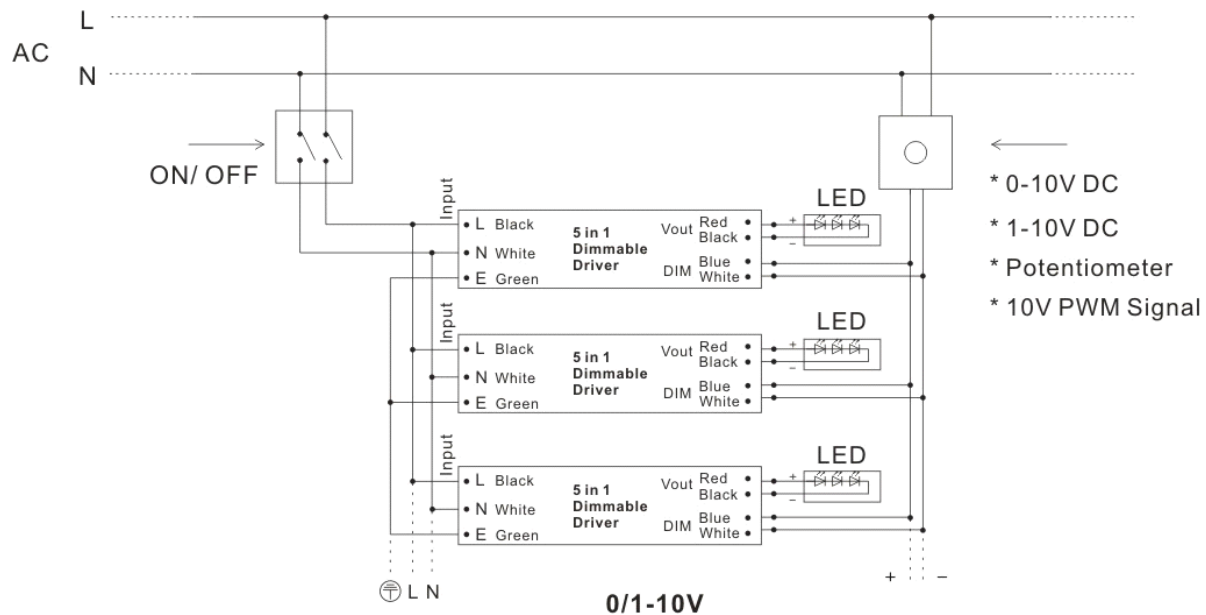


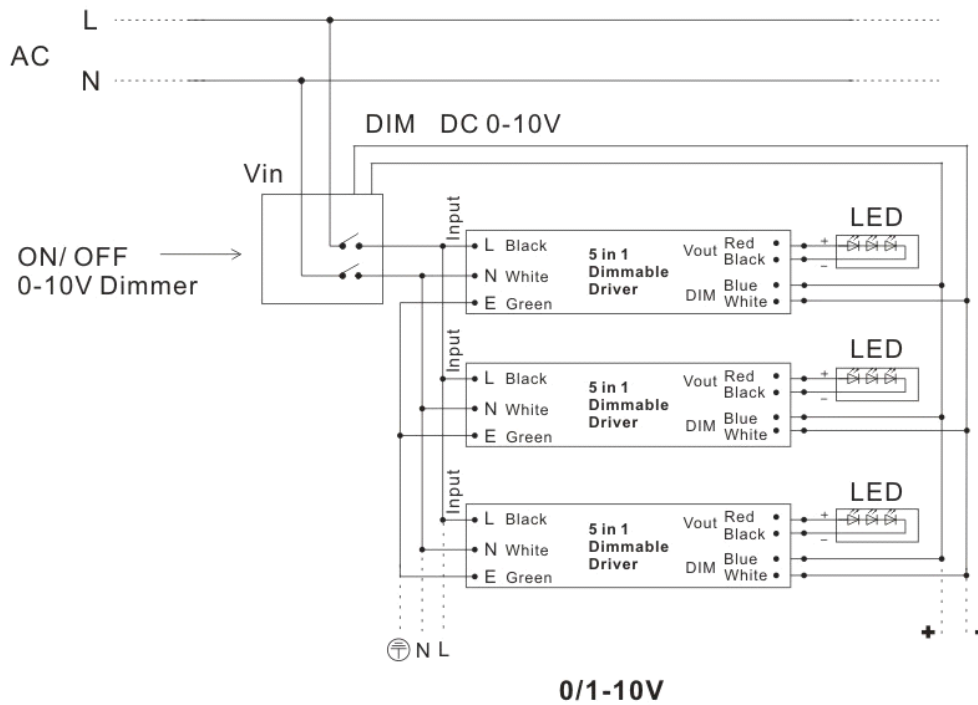
• Using one dimming ---TRIAC/Phase cut dimming

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.



• Using 0-10V/1-10V dimming





⚠ WARNING

- 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; Have any question, please contact Joyolight.