

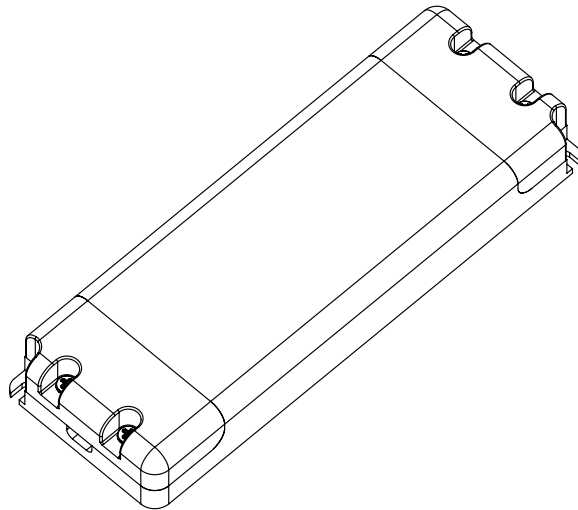
JOYOLIGHT

2020-04

JLM-60-24-NJ2

SPEC

POWER



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Features

- Output constant Voltage
- Range: 100-277VAC
- Built-in active PFC function
- Efficiency up to 85%
- Protections: short circuit/ over load/ over temperature
- Cooling by free air convection
- Full protection plastic housing, for dry and damp 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

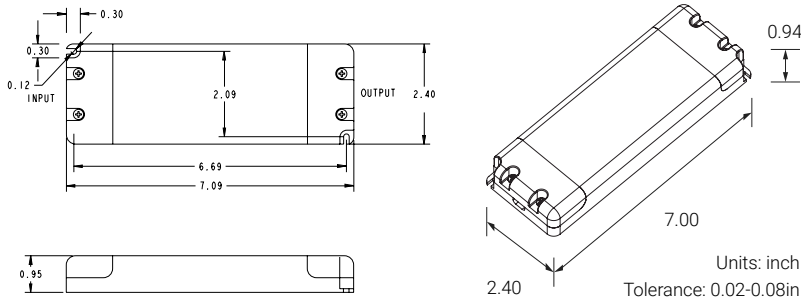


Class 2
TYPE HL

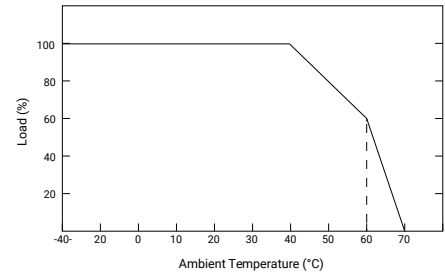


JLM-60-24-NJ2		
Certification	FCC UL cUL Class 2	
Output	DC Voltage	24V
	Rated Current	2.5A
	Rated Power	60W
	Voltage Tolerance	±0.5V
	Voltage Regulation	±0.5%
	Load Regulation	±1%
Input	Voltage Range	100-277VAC
	Frequency Range	47-63Hz
	Power Factor (Typ.) @ full load	0.98@120VAC 0.95@277VAC
	THD (Typ.) @ full load	<20% @120VAC &277VAC
	Efficiency (Typ.) @ full load	83% @120Vac 84%@277Vac
	AC Current (Max.)	0.9A
	Inrush Current (Typ.)	14A, 50%, 780us @120VAC 15A, 50% , 660us @277VAC
	Leakage current	<0.5mA
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	20~95%RH, non-condensing
	Storage TEMP. Humidity	-40~+80°C, 10~95%RH
	TEMP .coefficient	±0.03%/°C (0~50°C)
	Vibration	10~500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes
Safety& EMC	Safety standards	UL8750 + UL1310, CAN/CSA-C22.2 No.250.13
	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	0.35Kg
	Dimension	178*61*24mm (L*W*H)
	packing	20 pcs/CTN
Notes	1. All parameters NOT specially mentioned are measured at 120VAC input , rated load and 25°C of ambient temperature. 2. Tolerance: includes set up tolerance, line regulation and load regulation . 3. The power supply is considered as a component that will be operated in combination with final Equipment. Since EMC performance will be affected by the complete installation, the final equipment manufactures must be-qualify EMC Directive on the complete installation again.	

MECHANICAL SPECIFICATION



DERATING CURVE



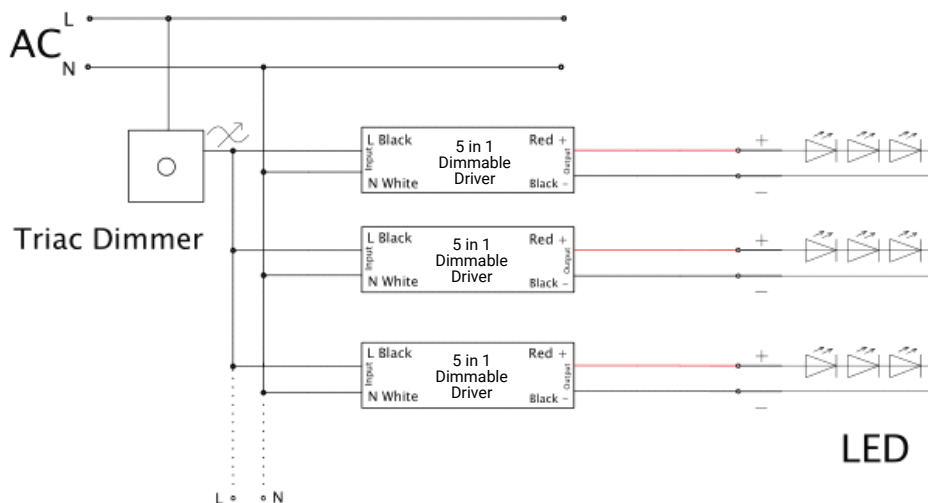
• To extend their life, please refer to the Derating Curve and derate according to the temperature.

- Input with terminals Live (L) and Neutral (N) wires to be connected AC;
- Output LED SEC output Positive (LED+) , output negative (LED-). Connected to LED light.
- Output terminals DIM (+) to 0/1-10V dimmer signal (+) , DIM (-) white connect 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.

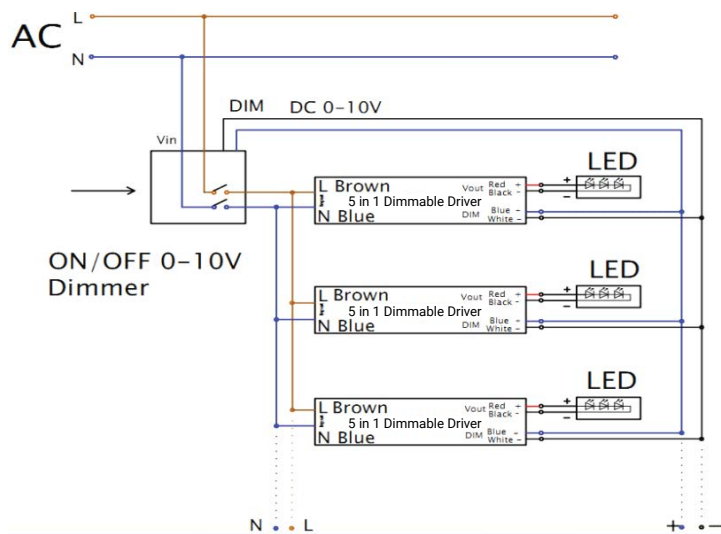
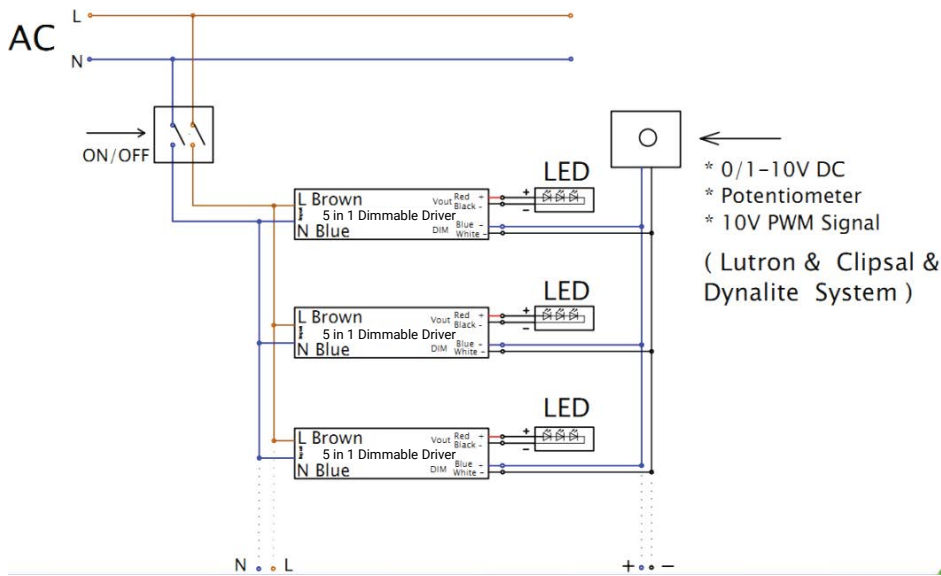
CONNECTING DIAGRAM

· 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.



• Using one dimming --- 0-10/1-10V 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.