

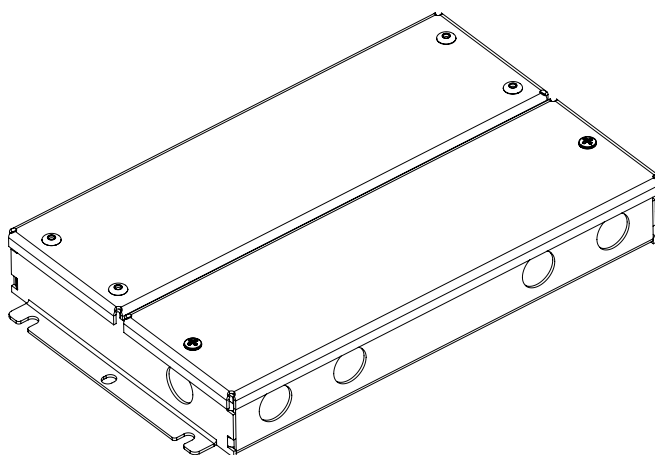
JOYOLIGHT

2020-04

JLM-30-24-JP2

SPEC

POWER



#12, 5200 Dixie Rd,
Mississauga, ON
Canada L4W 1E4
www.joyolight.ca
info@joyolight.com

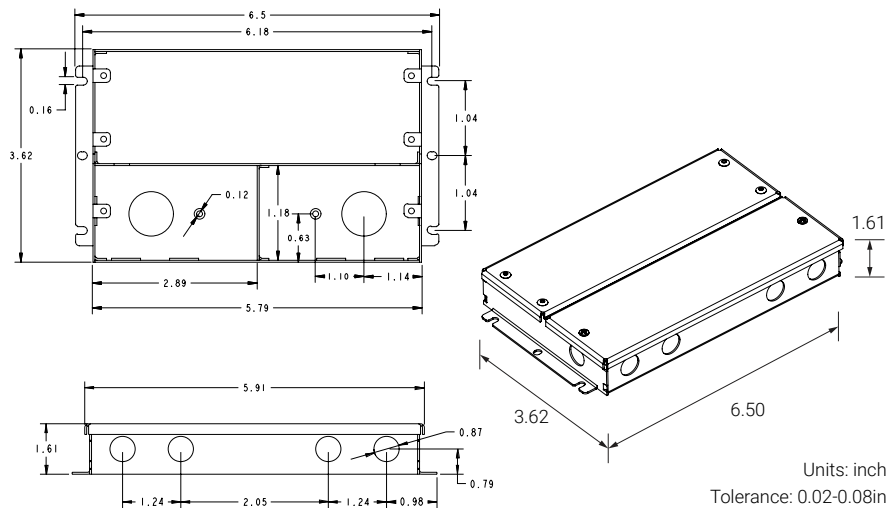
**Features**

- Output constant voltage
- UL, cUL listed, Class 2 unit, Type HL rated. FCC
- Universal AC input: 100-277VAC
- Power Factor: up to 0.99
- High efficiency: up to 80%
- Load: 10-100%
- Protection: short circuit/ over loading/ Over temperature
- PWM output, does not change the color index
- Full protection metal case, for dry, damp, wet location
- Flicker-free
- 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

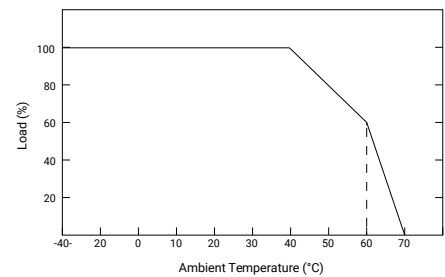
Class 2
TYPE HL

JLM-30-24-JP2		
Certification		UL, cUL listed, Class 2 unit, Type HL rated, FCC
Output	DC Voltage	24V
	Rated Current	1.25A
	Rated Power	30W
	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	79% @120Vac 80%@277Vac
	AC Current (Max.)	0.5A@100Vac
	Inrush Current (Typ.)	7A, 50%, 420us @120Vac 12A, 50%, 480us @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% shut down o/p voltage, re-power on to recover 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 Part 15 B
Others	Net. Weight	0.95Kg
	Size	165*92*41mm (L*W*H)
	packing	10 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



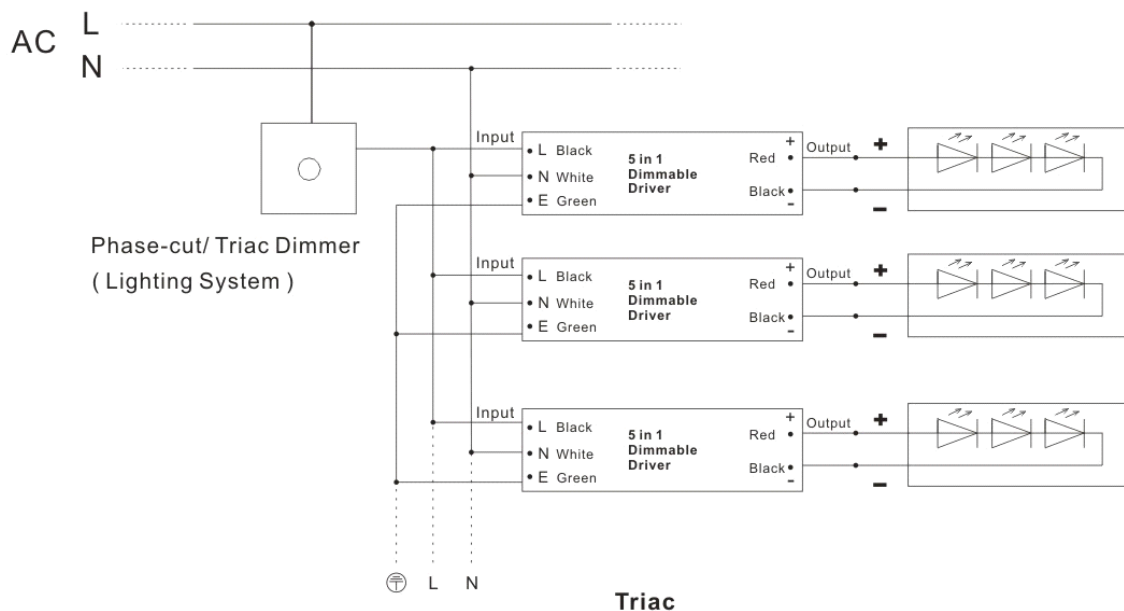
• To extend their life, please refer to the Derating Curve and derate according to the temperature.

- 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 customized.

CONNECTING DIAGRAM

• Using 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. Work with forward phase/ leading edge, MLV and reverse phase/ trailing edge, ELV, TRIAC dimmers.
3. Please try to use dimmers with power at least 1.5 times as the output power of the driver.



The diagram illustrates the wiring for three 5 in 1 Dimmable Drivers. Each driver has three input terminals (L, N, E) and three output terminals (Vout, DIM, and a common ground). The inputs are connected to the AC supply (L, N) and a common ground (E). The outputs are connected to the LED load (Vout, DIM, and common ground). A 0-10V control line is connected to the DIM terminals of all three drivers. The diagram also shows a switch for ON/OFF control and a potentiometer for 0-10V DC control.

AC
L
N

ON/OFF

Input
• L Black
• N White
• E Green

5 in 1 Dimmable Driver

Vout Red
Black
DIM Blue
White

LED

Input
• L Black
• N White
• E Green

5 in 1 Dimmable Driver

Vout Red
Black
DIM Blue
White

LED

Input
• L Black
• N White
• E Green

5 in 1 Dimmable Driver

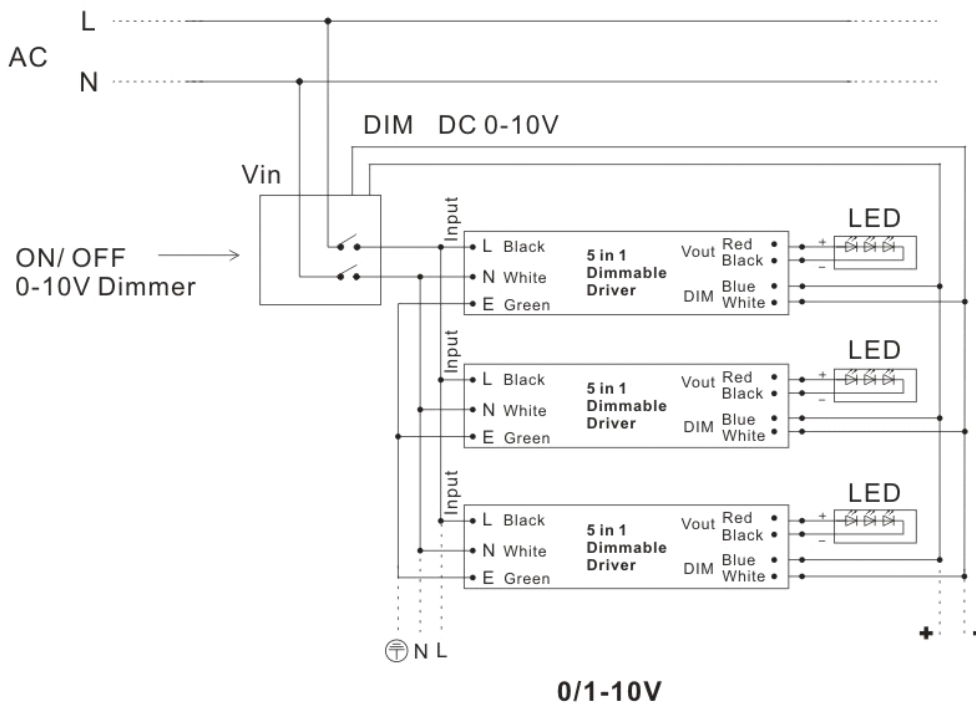
Vout Red
Black
DIM Blue
White

LED

0-10V

+ **-**

- * 0-10V DC
- * 1-10V DC
- * Potentiometer
- * 10V PWM Signal



- 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.