

**Project name****Type**

# LW-DIM-ELV-100~277VAC-CV-24V-200W-IP67-JBX

**IP67  
RATED**

## Features

- Output constant voltage
- UL, cUL Listed, Class P, Type HL
- Universal AC input: 100-277VAC
- Power Factor: up to 0.98
- High efficiency: up to 86%
- Dimming range: 0-100%
- Protection: Short Circuit / Over Loading / Over Temperature
- PWM output, does not change the color index
- Full protection aluminum housing for dry, damp location
- Flicker-free
- Compatible with Forward phase, Reverse phase, Triac, MLV, ELV Dimmers
- Cooling by free air convection
- Suitable for LED lighting and moving sign applications

## Specification

<b>Output</b>	DC Voltage	24V
	Rated Current	8.33A
	Rated Power	200W
	Voltage Tolerance	±0.5V
	Voltage Regulation	±0.5%
	Load Regulation	±2%
<b>Input</b>	Voltage Range	100-277VAC
	Frequency Range	47-63Hz
	Power Factor (Typ.) @Full Load	0.98 @120VAC 0.95 @277VAC
	THD (Typ.) @Full Load	<20%
	Efficiency (Typ.) @Full Load	86%
	AC Current (Max.)	2.3A @110VAC
	Inrush Current (Typ.)	15A 50% 1.4ms
Leakage Current	<0.50mA	
<b>Protection</b>	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 recovers after cooling
<b>Environment</b>	Working Temperature	-40°C ~ +60°C (See derating curve below)
	Working Humidity	20 ~ 90%RH, non-condensing
	Storage Temperature & Humidity	-40°C ~ +80°C, 10 ~ 95%RH
	Temperature Coefficient	±0.03%/°C (0 ~ 50°C)
	Vibration	10 ~ 500Hz, 5G 10min./1 cycle, period for 60min. each along X, Y, Z axes
<b>Safety &amp; EMC</b>	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
<b>Others</b>	Net Weight	1.8kg
	Dimensions	260 x 103 x 46mm   10.24 x 4.06 x 1.81in (L x W x H)

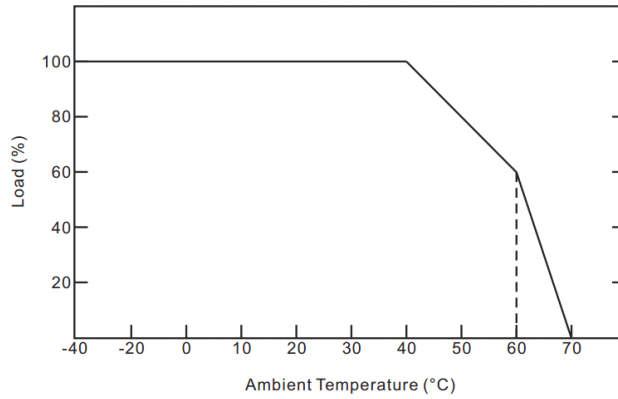
All parameters if NOT specified otherwise are measured at 120VAC input, rated load and 25°C ambient temperature.  
To extend the driver's using life, please reduce the loading at lower input voltage.

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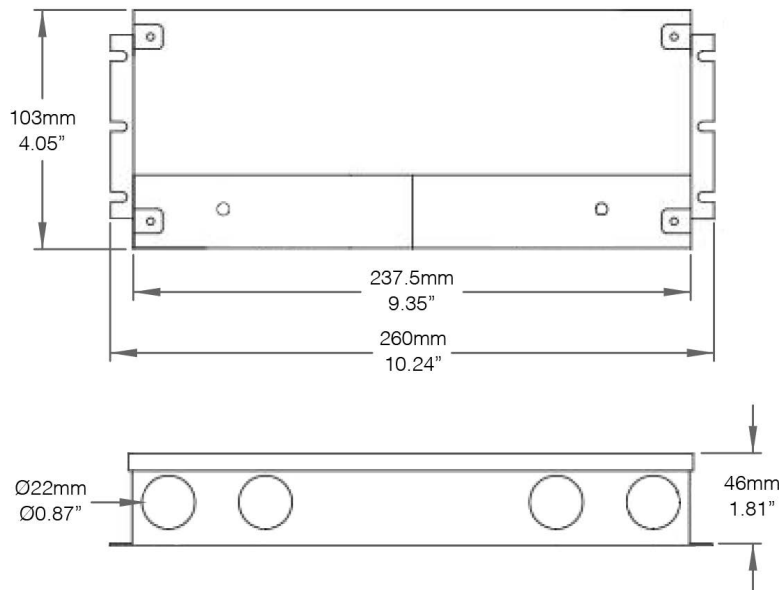
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## Derating Curve



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

## Dimensions



- Input wire 18AWG Black and White to be connected to AC L and N, Green wire goes ground.
- Output wire 14AWG Red to LED Positive (+) side, Black to LED Negative (-) side.

## Dimming Operation

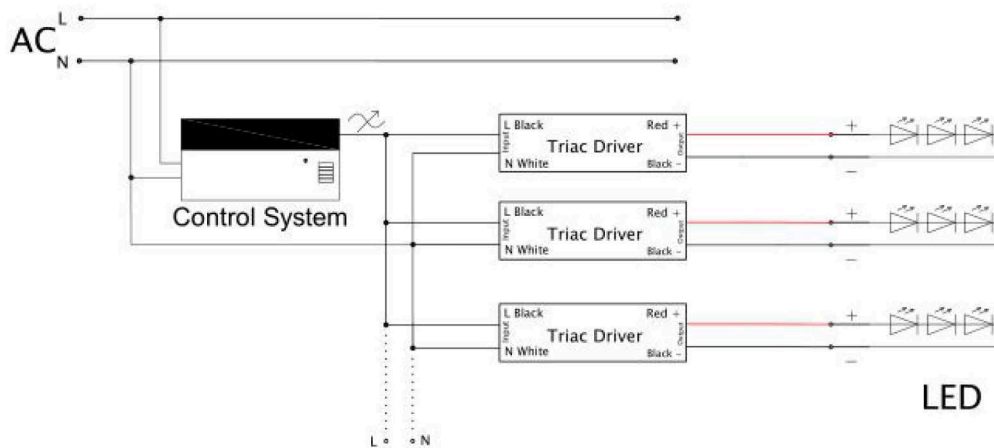
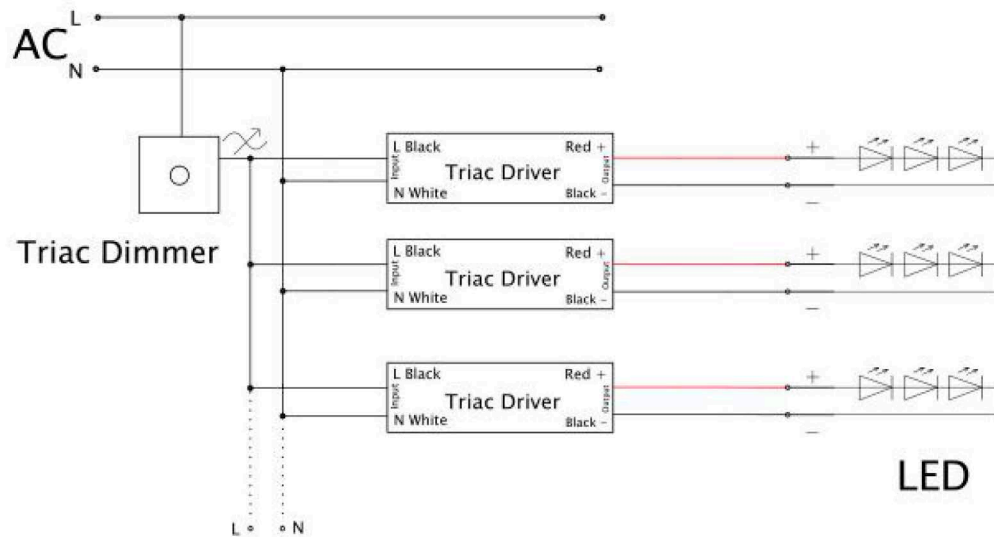
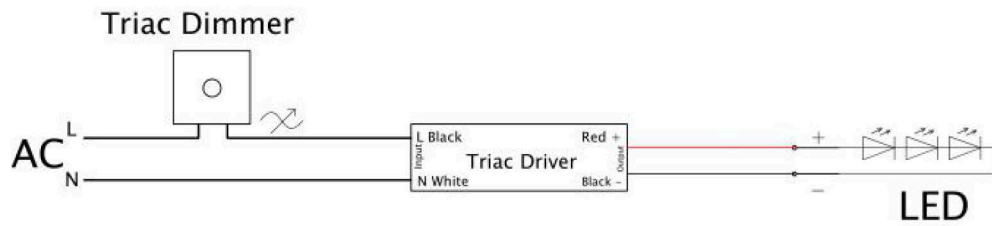
- The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line (L) by connecting a Phase/Triac dimmer.
- Usually matching with Forward phase, Leading edge, Magnetic low voltage, Triac Dimmers or Reverse phase, Trailing edge, Electric low voltage dimmers.
- Please try to use dimmers with power at least 1.5 times as the output power of the driver.

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## Connecting Diagrams



## Instructions

1. This driver should be installed by a qualified professional.
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 testing in order to avoid light and power supply damage.
4. If driver cannot work properly, do not attempt to repair it.