

PSDE-180W-24V-010

180W/120V~240W/277V CONSTANT VOLTAGE LED DRIVER

Project _____

Location _____

Quote/ Ref # _____

PSDE-180W-24V-010 is a 240W AC/DC LED driver that features a high-efficiency output of 93% allows it to operate under free air convection. The metal housing design and IP67/65 ingress protection rating makes it suitable for both indoor and outdoor use. It has dimming functions, adjustable output, and built-in active PFC.

SPECIFICATIONS

INPUT	
INPUT VOLTAGE RANGE	100-305V AC
INPUT FREQUENCY RANGE	47 ~ 63Hz
POWER FACTOR	≥ 0.97 (115V AC) ≥ 0.95 (230V AC) ≥ 0.92 (277V AC)
EFFICIENCY	93%
INPUT CURRENT	2.2A (115V AC)
INRUSH CURRENT	Cold Start 60A (230V AC)
THD	< 20%
OUTPUT	
OUTPUT VOLTAGE	24V DC
CONSTANT CURRENT REGION	12V ~ 24V
OUTPUT WATTAGE	180W ~ 240W
OUTPUT CURRENT	10A
ADJUSTABLE VOLTAGE RANGE	22.4V ~ 25.6V
ADJUSTABLE CURRENT RANGE	5A ~ 10A
VOLTAGE TOLERANCE	$\pm 2.0\%$
LOAD REGULATION	$\pm 0.5\%$
LINE REGULATION	$\pm 0.5\%$
SETUP, RISE TIME	500ms, 100ms (230V AC)
PROTECTION	
SHORT CIRCUIT	Yes; Hiccup Mode Auto Recover
OVER LOAD	Yes
OVER TEMPERATURE	27V ~ 34V; shut down, power on recover
OVER VOLTAGE	27V ~ 34V; shut down, power on recover
OVER CURRENT	95 ~ 108%
ENVIRONMENT	
WORKING TEMPERATURE	-40°F (-40°C) ~ 194°F (90°C)
WORKING HUMIDITY	20 ~ 95% RH non-condensing
STORAGE TEMPERATURE	-40°F (-40°C) ~ 194°F (90°C); 10-95% RH non-condensing
CASE TEMP (MAX)	194°F (90°C)
TEMP COEFFICIENT	$\pm 0.03\%/^{\circ}\text{C}$ (0~60°C)

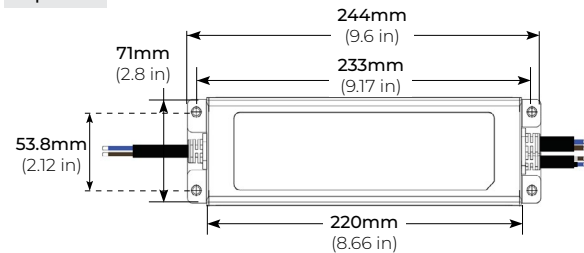


FEATURES

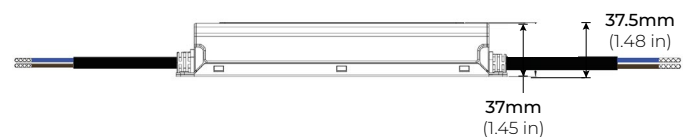
- 180W (120V) - 240W (277V)
- Constant Voltage
- 0-10V Dimming
- Metal Housing with Class I Design
- Built-in Active PFC Function
- IP65/ IP67 Rated
- Suitable for Indoor or Outdoor Use
- 93% High-Efficiency Output

DIMENSIONS

Top View



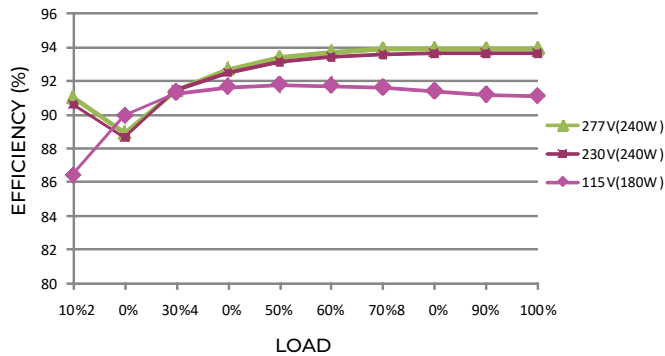
Side View



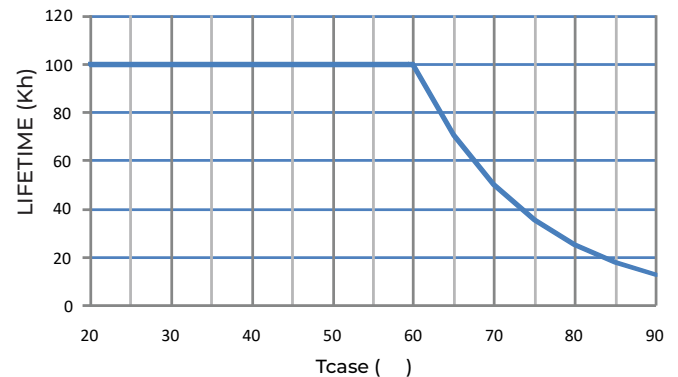
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PERFORMANCE



EFFICIENCY VS LOAD



LIFETIME

WIRING



THIS PRODUCT IS ONLY TO BE INSTALLED BY A QUALIFIED TECHNICIAN IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES

SAFETY & WARNINGS:

- Install this product in accordance with local and national electrical codes
- This product is rated for indoor use. For outdoor applications, use wet rated enclosure.
- Make sure power from the main breaker is off** before installing to avoid risk of electrical shock.

MOUNTING:

Select a suitable and proper location to mount the driver. Consider weight of the driver to be supported.

INPUT CONNECTIONS/ GROUNDING:

- Remove input wiring cover and install clamp connectors
- Route the input wires and make connections according to the wiring diagram, following the INPUT side.

**Make sure that the driver is properly grounded in accordance with the N.E.C.*

OUTPUT CONNECTIONS:

- Remove output wiring cover and install clamp connectors
- Route the fixture wires and make connections according to the wiring diagram, following the OUTPUT side.

0-10V DIMMING:

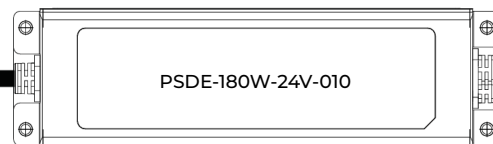
Connect the dimmer in accordance to the wiring diagram.

**Use appropriate wire connectors to ensure all wire connections.*

Input (100-305V AC)

ACN (Blue)

ACL (Brown)



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Output (24V DC)

Vo- (Black)
Vo+ (Red)

DIM+ (Blue)
DIM- (White)