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80W Constant Current LED Driver PDA080 Series for Outdoor Lighting





Features

- High Efficiency
- UL8750 Compliant
- 5 Year Warranty
- OVP, Short and Open Circuit Protection
- IP65, Potted
- Wide Operating Temperature Range
- Brownout/Brownout Recovery
- 120V-277V Rated Operation

Applications

- General Lighting
- Street Lighting

- Outdoor Lighting
- Architectural Lighting

Safety Approvals (PENDING)

• CE

• cUL/UL

Mechanical Characteristics

Length: 242mm (9.5in)Width: 43.5mm (1.7in)

Height: 30.5mm (1.2in)Weight: 750g (1.65lbs)

Output Specifications

Model ⁽¹⁾	DC Output Voltage			Output	Output
	Min.	Тур.	Max.	Current	Power ⁽²⁾
PDA080X-1A6G	35V	-	48V	1.6A	80W

Note (1): X is B for non-dimming or W for 0-10V Dimming

Note (2): Output power drops to 65W maximum when input is 90-100VAC

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PDA080B Characteristics

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Input:

AC Input Voltage Rating

100VAC to 277VAC

AC Input Frequency

47~63Hz

Maximum Input Current

< 2A

Leakage Current

0.5mA maximum at 230VAC Input

Inrush Current

< 20A

OUTPUT:

Power Factor

 \geq 0.9 at nominal

Ripple and Noise

<7% (p-p)

Efficiency (Target)

88% at 277VAC 84% at 120VAC

Turn-on Delay Time

0.5s maximum at nominal AC Power ON

Environmental:

Temperature

Operation -40 to +60°C Non-operation -40 to +85°C

Operating Humidity 10 to 95%

Dimming Function: (W Models)

Dimming Control

0-10VDC

Dimming Output to Load

PWM at 500Hz

Dimming Grounding

Dim(-) and Vout(-) must never be connected together to ensure proper operation and isolation requirements

EMC

EN55015/CISPR 15, FCC 47 CFR Part 15/18, Class A

Immunity

IEC61000-4-2 IEC61000-4-3 IEC61000-4-4 IEC61000-4-5

IEC61000-4-6 IEC61000-4-8

IEC61000-4-11

IEC61000-3-2 Class C

Input Over Current Protection

The input power line will be fused with a 3.15A fuse

Short-Circuit Protection

The PSU will withstand a short circuit across the outputs without damage

Open Circuit Protection

Once the circuit is opened, the output voltage should be less than 120% at nominal AC input conditions

Dielectric Withstand (Hi-pot) Test

Primary to secondary: 4242VDC for 1 minute, 5mA

Insulation Resistance

Primary to secondary: >5M Ohm 500VDC, 1 Minute

Design Life

50K hours at full power, ambient 50°C and Tcase < rating

Wire Connections

Position	Terminal Color	Specification
Line	Black	AWG18 solid wire
Neutral	White	AWG18 solid wire
Ground	Green/Yellow	AWG18 solid wire
Vout+	Red	AWG18 solid wire
Vout-	Blue	AWG18 solid wire
Dim+	Violet	AWG18 Solid wire
Dim-	Grey	AWG18 Solid Wire

Warranty

5 Years



