



100W Constant Current LED Driver PDA100W LED Power Supply with 0-10V Dimming



Features

- High Efficiency
- UL8750 Compliant
- Brownout Protection
- OVP, Short and Open Circuit Protections
- 0-10V Dimming
- IP65 Rated
- Wide Operating Temperature Range
- 108-305VAC Input Range
- 5 Year Warranty

Applications

- General Lighting
- Street Lighting
- Outdoor Lighting
- Architectural Lighting

Safety Approvals

- cUL/UL

Mechanical Characteristics

- Length: 241mm (9.49in)
- Width: 59mm (2.32in)
- Height: 39mm (1.54in)
- Weight: TBD

Output Specifications

Model	DC Output Voltage			Output Current	Output Power
	Min.	Typ.	Max.		
PDA100W-700GD	82V	-	143V	700mA	100W
PDA100W-1A0GD	58V	-	100V	1000mA	100W

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Input:**AC Input Voltage Range**

108VAC to 304VAC

AC Input Frequency

47~63Hz

Maximum Input Current $\leq 1.26\text{A}$ **Leakage Current**

0.75mA maximum at 277VAC Input

Inrush Current

< 80A

OUTPUT:**Power Factor** ≥ 0.9 **Output Current Ripple**

<105mA (p-p)

Efficiency

88% at 120VAC

91% at 277VAC

Turn-on Delay Time

<0.5s maximum at nominal AC Power ON

Environmental:**Temperature**

Operation -40 to +50°C

Non-operation -40 to +90°C

Case Temperature <85°C

Operating Humidity 5 to 98%

Dimming Control

0-10VDC

Dimming Grounding

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

EMC

EN55015/CISPR 15/FCC 47 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 6.3A fuse

Short-Circuit Protection

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

Over Temperature Protection

The load will drop by 50% automatically if the case temperature exceeds the recommended limit

Dielectric Withstand (Hi-pot) Test

Primary to secondary: 4242VDC for 1 minute, 5.5mA

Insulation Resistance

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

Wire Connections

Position	Terminal Color	Specification	Length
Line	Black	AWG18 Solid Wire	390mm
Neutral	White	AWG18 Solid Wire	390mm
Ground	Green/Yellow	AWG18 Solid Wire	390mm
Vout+	Red	AWG18 Solid Wire	390mm
Vout-	Blue	AWG18 Solid Wire	390mm
20V	Yellow	AWG22 Solid Wire	390mm
Dim+	Violet	AWG22 Solid Wire	390mm
Dim-	Grey	AWG22 Solid Wire	390mm

Warranty

5 Years

