



## 125W Constant Current LED Driver PDA125 Series for Outdoor Lighting



### Features

- High Efficiency
- UL8750 Compliant
- 5 Year Warranty
- OVP, Short and Open Circuit Protection
- IP66, Potted
- 90V-304VAC Input Voltage Range
- Brownout/Brownout Recovery
- Wide Operating Temperature Range

### Applications

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

### Safety Approvals

- CE
- cUL/UL

### Mechanical Characteristics

- Length: 217.2mm (8.55in)
- Width: 68mm (2.67in)
- Height: 38mm (1.49in)
- Weight: 936g (2.06lbs)

### Output Specifications

| Model <sup>(1)</sup> | DC Output Voltage |      |        | Output Current | Output Power <sup>(2)</sup> |
|----------------------|-------------------|------|--------|----------------|-----------------------------|
|                      | Min.              | Typ. | Max.   |                |                             |
| PDA125X-700F         | 134V              | -    | 178.6V | 700mA          | 125W                        |
| PDA125X-1A0F         | 84V               | -    | 119V   | 1050mA         | 125W                        |
| PDA125X-1A4F         | 67V               | -    | 89.3V  | 1400mA         | 125W                        |
| PDA125X-2A0F         | 47V               | -    | 61.5V  | 2000mA         | 125W                        |
| PDA125X-2A8F         | 34V               | -    | 44.6V  | 2800mA         | 125W                        |
| PDA125X-3A1F         | 30V               | -    | 40.3V  | 3100mA         | 125W                        |

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

Note (2): Output power drops to 112.5W maximum when input is 90-100VAC

PhiHong is not responsible for any error, and reserves the right to make changes without notice. Please visit our website at [www.phihong.com](http://www.phihong.com) for the most up-to-date specifications and contact information.

**Input:****AC Input Voltage Range**

90VAC to 304VAC

**AC Input Frequency**

47~63Hz

**Maximum Input Current** $\leq 2A$ **Leakage Current**

0.5mA maximum at 230VAC Input

**Inrush Current** $\leq 30A$ **OUTPUT:****Power Factor** $\geq 0.9$ **Ripple and Noise**

&lt;35% (p-p)

**Efficiency**

93% at 230~277VAC

91% at 120VAC

**Turn-on Delay Time**

&lt;1s maximum at nominal AC Power ON

**Environmental:****Temperature**

Operation -40 to +60°C

Non-operation -40 to +85°C

Case Temperature &lt;75°C

Operating Humidity 10 to 95%

**Dimming Function: (W Models)****Dimming Control**

0-10VDC

**Dimming Output to Load**

PWM at 1000Hz

**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 2A 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, 5.5mA

**Insulation Resistance**

Primary to secondary: &gt;5M Ohm 500VDC, 1 Minute

**Lifespan**

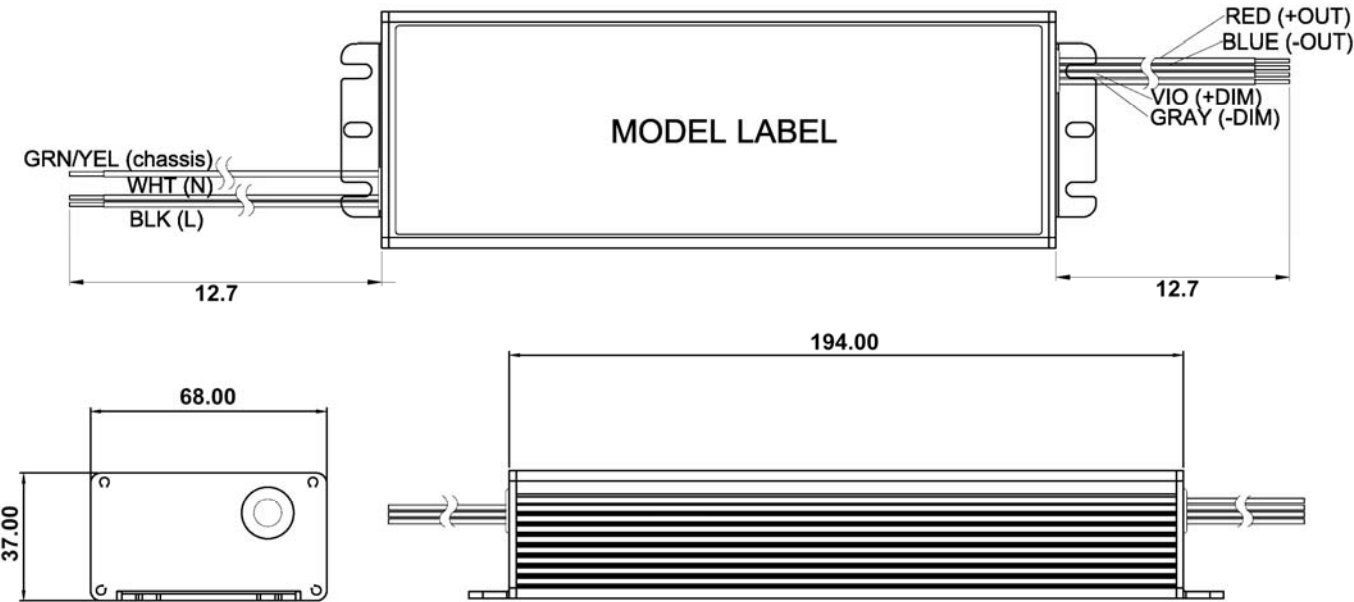
50K Hours at full output power, 50°C ambient, Tcase < rating

**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



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Phihong:

[PDA125W-1A4F](#) [PDA125W-700F](#) [PDA125W-1A0F](#) [PDA125B-700F](#) [PDA125B-1A4F](#) [PDA125B-1A0F](#)