



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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 ⁽¹⁾	DC Output Voltage			Output Current	Output Power ⁽²⁾
	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 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
≤ 2A

Leakage Current
0.5mA maximum at 230VAC Input

Inrush Current
≤ 30A

OUTPUT:
Power Factor
≥ 0.9

Ripple and Noise
<35% (p-p)

Efficiency
93% at 230~ 277VAC
91% at 120VAC

Turn-on Delay Time
<1s maximum at nominal AC Power ON

Environmental:

Temperature
Operation -40 to +60°C
Non-operation -40 to +85°C
Case Temperature <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: >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

