



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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80W Constant Current LED Driver PDA080 Series for Outdoor Lighting



Features

- High Efficiency
- UL8750 Compliant
- 5 Year Warranty
- OVP, Short and Open Circuit Protection
- IP67 - waterproof, Potted
- Wide Operating Temperature Range
- Brownout/Brownout Recovery
- 120V-277V Rated Operation

Applications

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

Safety Approvals

- 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 Current	Output Power ⁽²⁾
	Min.	Typ.	Max.		
PDA080X-700G	90V	-	114V	700mA	80W
PDA080X-1A0G	50V	-	76V	1000mA	80W
PDA080X-1A6G	34V	-	48V	1670mA	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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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
 $\leq 20A$

OUTPUT:
Power Factor
 ≥ 0.9 at nominal

Ripple and Noise
 $<7\%$ (p-p)

Efficiency (Target)
85% 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%

Case Temperature
80°C maximum

Warranty
5 Years

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
*Surge Differential mode: 2.0kV, Common mode: 4.0kV

Ring Wave Surge (ANSI C62.41.2 Cat A)

Differential mode: 4.0kV
Common mode: 6.0kV

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 $T_{case} < \text{rating}$

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

