



**40W Constant Current LED Driver
PDA041B Waterproof LED Driver Non-Dimming**



Features

- Class 2 per UL1310
- OVP, OCP, Over-Load and Short-Circuit Protection
- >0.9 Power Factor Correction
- 5 Year Warranty
- IP67 Rating - waterproof
- THD <20%
- UL 8750 Compliant
- Brownout/Brownout Recovery

Applications

- Down lights
- Area Lights
- Architectural lighting

Safety Approvals

- cUL/UL

Mechanical Characteristics

- Length: 95mm (3.74in)
- Width: 71mm (2.79in)
- Height: 32mm (1.26in)
- Weight: N/A

Output Specifications

Model	DC Output Voltage			Output Current	Output Power
	Min.	Typ.	Max.		
PDA041B-700B	39V	-	54V	700mA	38W
PDA041B-1A0B	28V	-	38V	1050mA	40W
PDA041B-1A4B	18V	-	26V	1400mA	37W

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INPUT:

AC Input Voltage Rating
120VAC to 277VAC

AC Input Frequency
47~63Hz

Maximum Input Current
≤ 0.8A

Leakage Current
0.5mA maximum

Power Factor
≥ 0.9

THD
Less than 20%

OUTPUT:
Output Current Ripple
<40%

Efficiency
87% at 277VAC

Environmental:

Temperature	
Operation case	-40 to +85°C
Non-operation	-40 to +80°C
Operating Humidity	20 to 95%

*Output derates from 50°C to 62°C Ta

EMC
FCC 47 Part 18 Class B

Immunity
IEC61000-4-2
IEC61000-4-4
IEC61000-4-5
IEC61000-4-11

Dielectric Withstand (Hi-pot) Test
Primary to secondary: 3000VAC for 1 minute, 10mA

Insulation Resistance
Primary to secondary: >10M Ohm 500VDC, 1 Minute

Features
Short-Circuit Protection
The PSU will withstand a short circuit across the outputs without damage

Input Over Current Protection
The input power line will be fused with a 2A/300V fuse

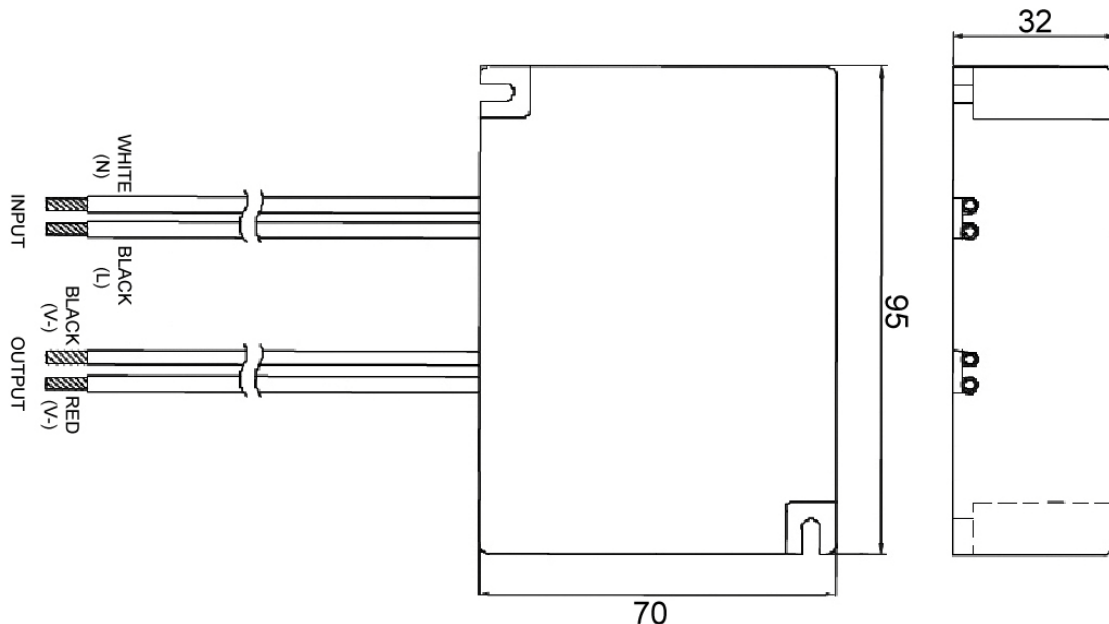
Output Over-voltage Protection
Auto shutdown

Input / Output Connections

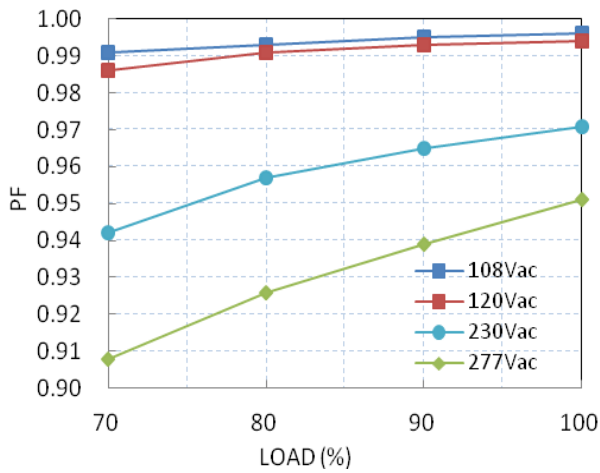
Position	Terminal Color	Specification
Input	Black	AWG16 Solid Wire
	White	AWG16 Solid Wire
Output	Red	AWG18 Solid Wire
	Black	AWG18 Solid Wire

Warranty
5 Years

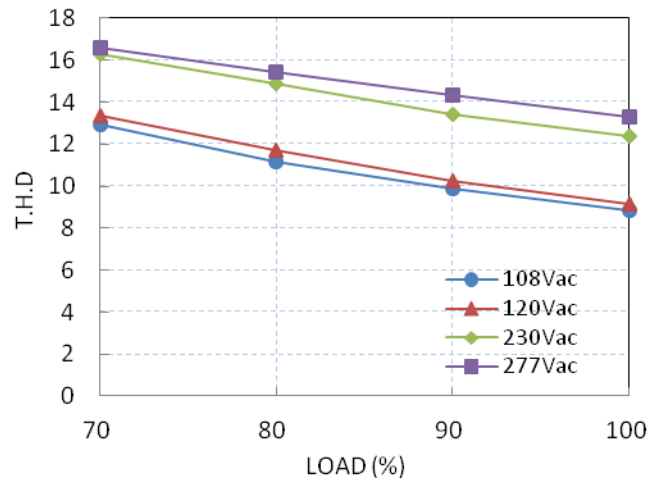
Dimension Diagram unit: mm



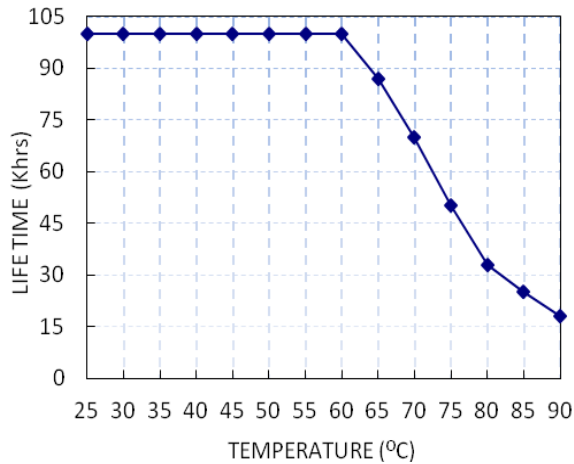
Power Factor vs. Load



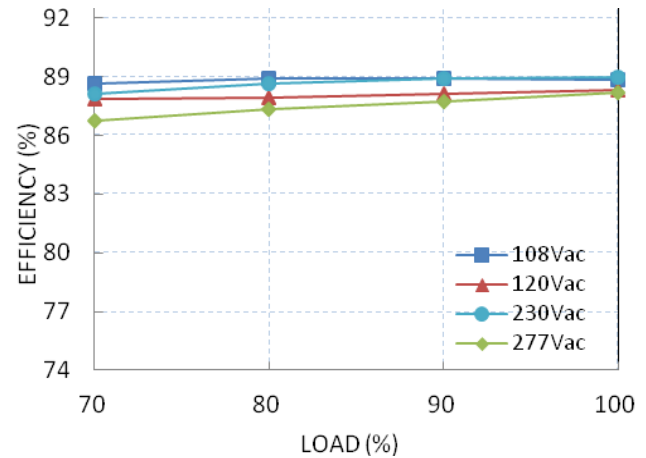
Total Harmonic Distortion vs. Load



Lifetime vs. Tc

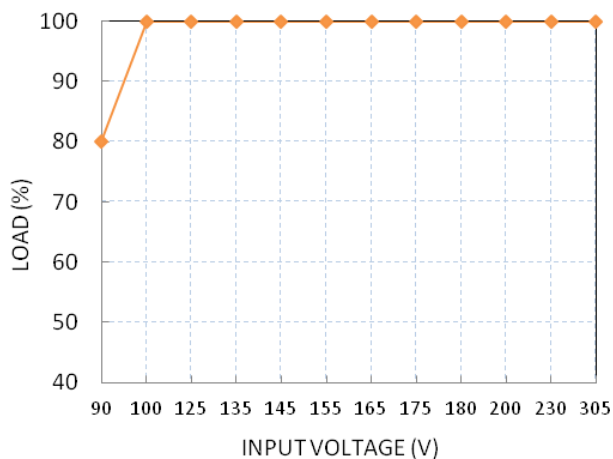


Efficiency vs. Load (PDA041B-700B)

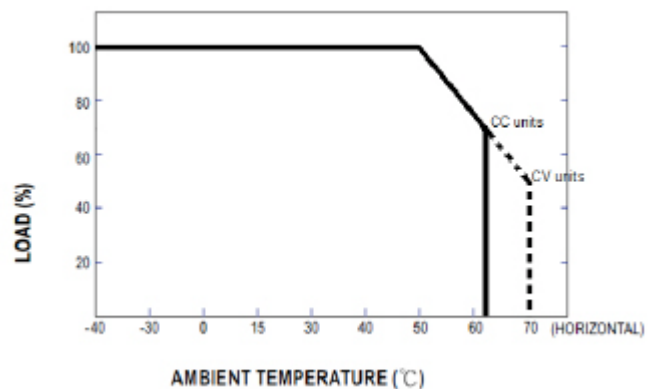


Temperature Rating

Static Characteristic: Load vs. Input Voltage



Derating Curve: Load vs Ta



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