



**100W Constant Voltage LED Driver
PDA100B LED Power Supply Non-Dimming**



Features

- OVP, OTP Short and Open Circuit Protections
- Brownout Protection
- High Efficiency
- IP66 Rated
- 90-304VAC Input Range
- Wide Operating Temperature Range
- ≥ 0.9 Power Factor Correction & THD 20%

Applications

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

Safety Approvals

- cUL/UL 8750

Mechanical Characteristics

- Length: 241mm (9.49in)
- Width: 59mm (2.32in)
- Height: 39mm (1.54in)
- Weight: 1050g (37.04oz)

Output Specifications

Model	Output Current Range			DC Output Voltage	Output Power
	Min.	Typ.	Max.		
PDA100B-24VG	0A	-	4.1A	24V	100W
PDA100B-48VG	0A	-	2.08A	48V	100W

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INPUT:

AC Input Voltage Rating
90VAC to 304VAC

Nominal AC Input Voltage
100 to 277VAC

AC Input Frequency
47~63Hz

Maximum Input Current
≤ 1.35A

Leakage Current
0.75mA maximum

Power Factor
≥ 0.9

THD
< 20%

OUTPUT:
Output Voltage Ripple
≤1% (p-p)

Efficiency

Model	Typical Efficiency
PDA100B-24VG	88%
PDA100B-48VG	90%

Environmental:

Temperature
Operation Tc -40 to 90°C
Non-operation -40 to +85°C
Operating Humidity 10 to 95%

EMC

FCC Part 15 Class A

Immunity

IEC61000-4-2
IEC61000-4-3
IEC61000-4-4
IEC61000-4-5
IEC61000-4-6
IEC61000-4-8
IEC61000-4-11

Dielectric Withstand (Hi-pot) Test

Primary to secondary: 3000VAC/4242VDC for 1 minute, 10mA

Insulation Resistance

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

FEATURES:

Short-Circuit Protection

The Driver will withstand a short circuit across the outputs without damage.

Input Over Current Protection

The input power line will be fused with a 3.15A/300VAC fuse

Output Over-voltage Protection

Latch

Over Temperature Protection

Latch

Output Current Protection

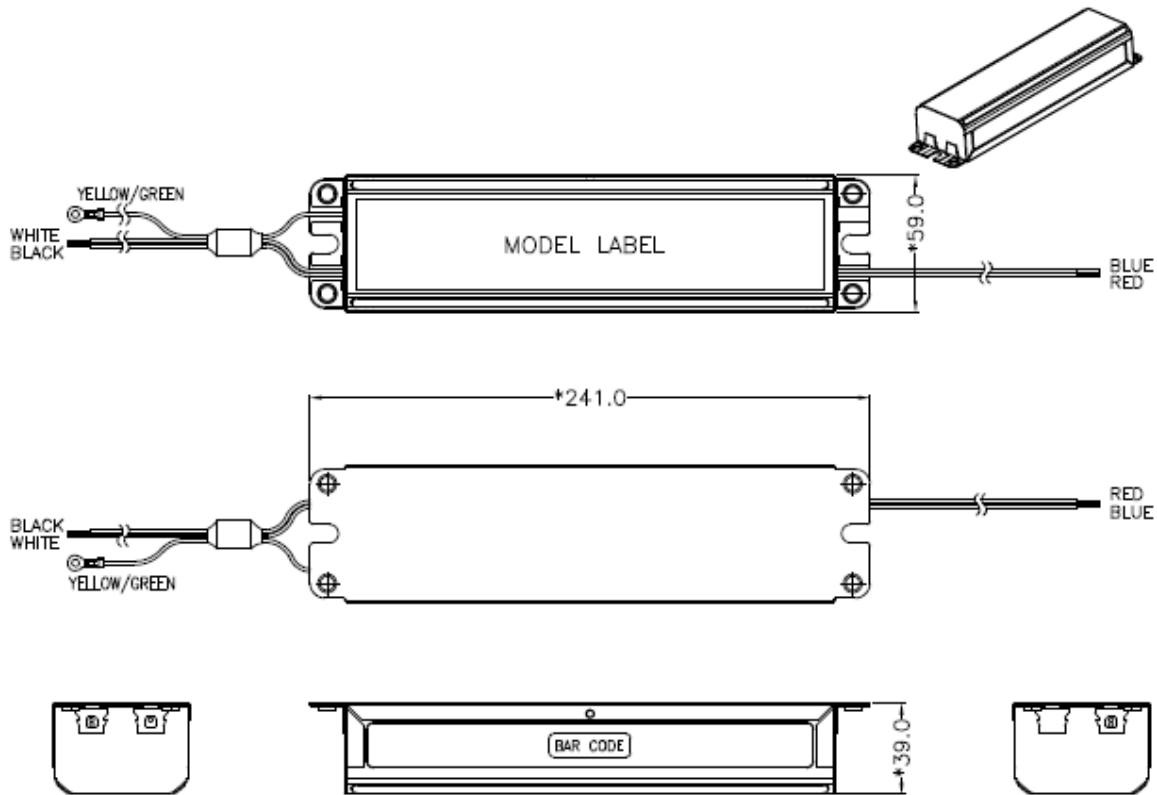
Over current protection trigger level be within 2.2A~3.12A

Input / Output Connections

Position	Terminal Color	Specification	Length
Input	Black	AWG18 Solid Wire	330mm
	White	AWG18 Solid Wire	330mm
	Green/Yellow	AWG18 Solid Wire	330mm
Output	Red	AWG18 Solid Wire	330mm
	Blue	AWG18 Solid Wire	330mm

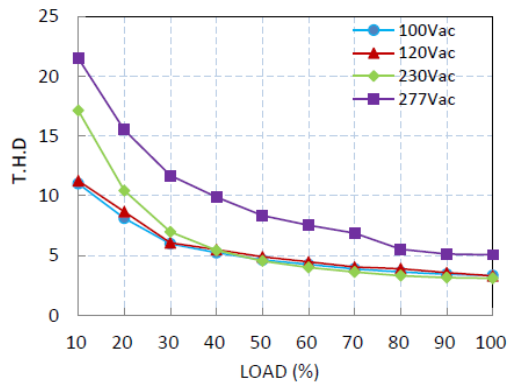
Warranty

5 Years

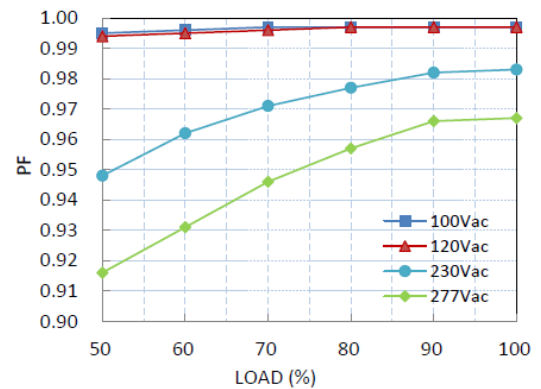


PDA100B Constant Voltage Characteristics

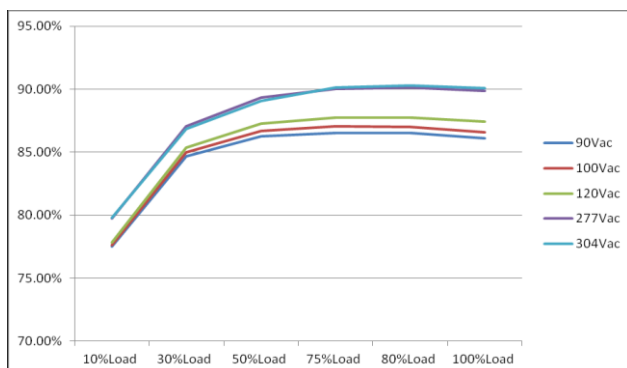
Total Harmonic Distortion vs. Load



Power Factor vs. Load



Efficiency vs. Load for PDA100B-24VG



Lifetime vs. Tc

