



51W LED Driver with 2 Channel Constant Current Outputs PDA051B LED Power Supply



Features

- 2 Channel Output
- OVP, OCP, OTP and Short-Circuit Protection & Brownout Protection
- IP65
- Class 2 Output per UL1310
- THD <20% & ≥ 0.9 Power Factor

Applications

- Troffers

Safety Approvals

- cUL/UL 8750
- Class 2 Output per UL1310

Mechanical Characteristics

- Length: 242mm (9.53in)
- Width: 43.5mm (1.71in)
- Height: 30.5mm (1.2in)
- Weight: 650g

Output Specifications

Channel 1~2

Model	DC Output Voltage			Output Current	Output Power
	Min.	Typ.	Max.		
PDA051B-700G	30V	33V	36V	700mA	25.5W

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INPUT:

AC Input Voltage Rating
108~304VAC

Nominal AC Input Voltage
120 to 277VAC

AC Input Frequency
47~63 Hz

Maximum Input Current
≤ 0.64A

Leakage Current
0.75mA maximum

Power Factor
≥ 0.9

THD
< 20%

OUTPUT:

Output Current Ripple
450mA(p-p)

Efficiency
81% at 120VAC
83% at 277VAC
Typical Efficiency 85%

Environmental:

Temperature
Operation case 0 to Tc +70°C
Non-operation -40 to +85°C
Operating Humidity 10% to 95%

EMC

FCC 47 CFR Part 15, Class A

Immunity

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

Dielectric Withstand (Hi-pot) Test

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

Insulation Resistance

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

Short-Circuit Protection

Latch requires power cycle to restart

Output Over-voltage Protection

Max Voltage Limit 63V

Over Temperature Protection

Max Temperature Limit 85°C

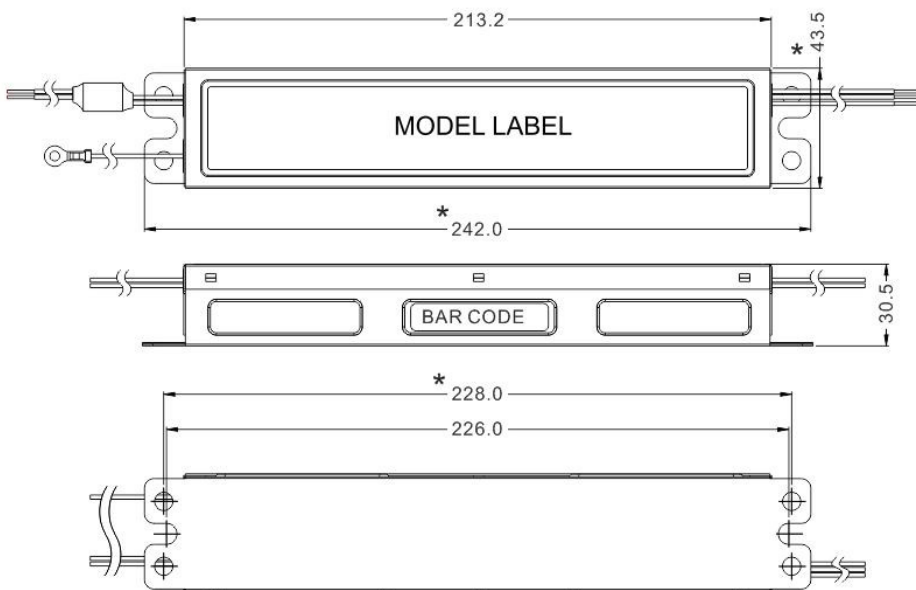
Input / Output Connections

	Color	Specification	Length
Input	Black	AWG18 Solid Wire	360mm
	White	AWG18 Solid Wire	
Output	Red(+)	AWG18 Solid Wire	200mm
	Blue(-)	AWG18 Solid Wire	
Aux	Green/ Yellow	AWG18 Solid Wire	220mm

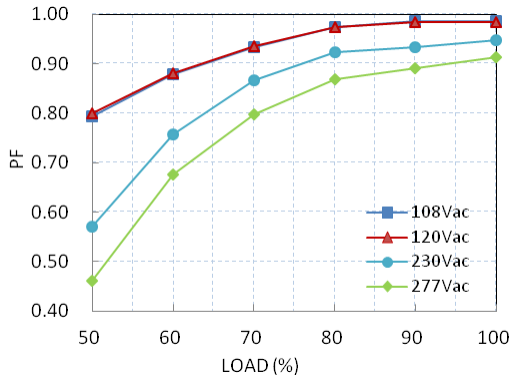
Warranty

5 Years

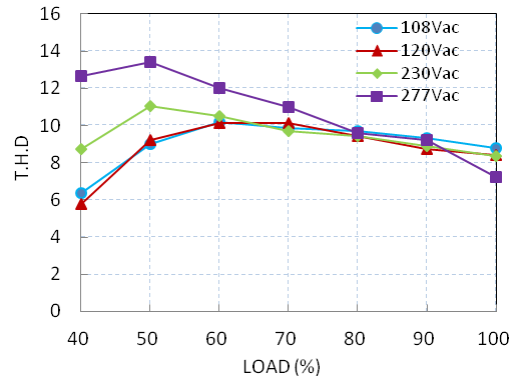
Dimesino Diagram unit: mm



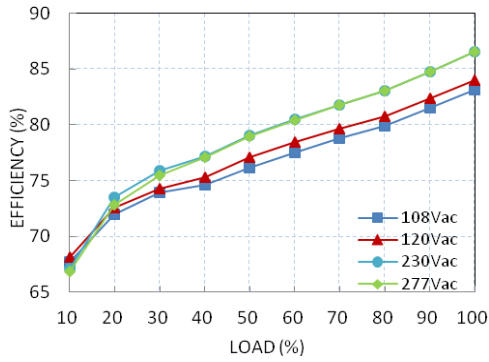
Power Factor vs. Load



Total Harmonic Distortion vs. Load



Lifetime vs. Tc



Efficiency vs. Load

