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40W Dimmable Constant Current LED Driver PDA040W Waterproof LED Driver with 0-10V Dimming



Features

- Class 2 Output per UL1310
- OVP, OCP, Over-Load and Short-Circuit Protection & Brownout Protection
- IP67 Rated
- ≥ 0.9 Power Factor Correction & THD <20%

Applications

- Down lights
- Area Lights

• Architectural lighting

Safety Approvals

- cUL/UL 8750
- Class 2 Output per UL1310

- CE
- IEC/EN61347-1, IEC/EN61347-2-13

Mechanical Characteristics

Length: 162.5mm (6.39in)Width: 43mm (1.69in)

Height: 32mm (1.26in)Weight: 342g (12.1oz)

Output Specifications

	Model	DC	Output Vol	tage	Output	Output Power	
		Min.	Typ.	Max.	Current		
	PDA040W-700B	37.8V	-	54V	700mA	38W	
	PDA040W-1A0B	26.6V	-	38V	1050mA	40W	
	PDA040W-1A4B	18.2V	-	26V	1400mA	37W	

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PDA040W Characteristics

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INPUT:

AC Input Voltage Rating

100VAC to 277VAC

AC Input Frequency

47~63Hz

Maximum Input Current

≤ 0.8A

Leakage Current

0.25mA maximum

Power Factor

 ≥ 0.9

THD

< 20%

OUTPUT:

Output Current Ripple

<40%

Efficiency

Model	Typical Efficiency		
PDA040W-700B	89%		
PDA040W-1A0B	88%		
PDA040W-1A4B	88%		

Auxiliary Power Supply

12V semi regulated (11-14Vdc)

0-10mA

Voltage Dimming Function:

0-10VDC

Resistive Dimming*

Resistor must be placed between Dim+ and Dim- for operation. See following page for dimming table.

Environmental:

Temperature

 $\begin{array}{lll} \text{Operation case} & +75^{\circ}\text{C} \\ \text{Non-operation} & -40 \text{ to } +80^{\circ}\text{C} \\ \text{Operating Humidity} & 20 \text{ to } 95\% \\ *\text{Output derates from 50°C to } 62^{\circ}\text{C Ta} \end{array}$

EMC

FCC 47 Part 15 Class B, EN55015 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

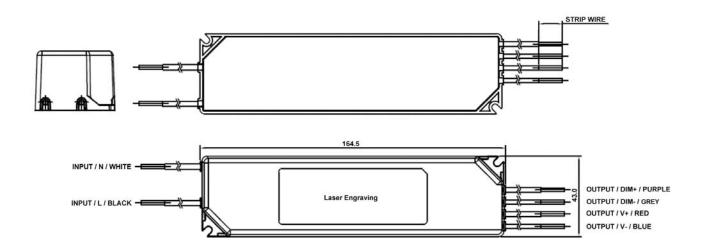
Auto shutdown

Input / Output Connections

Position	Terminal Color	Specification	Length		
Input	Black	AWG16 Solid Wire	350mm		
Input	White	AWG16 Solid Wire	350mm		
Output	Red	AWG18 Solid Wire	350mm		
Output	Blue	AWG18 Solid Wire	350mm		
Dim+	Purple	AWG20 Solid Wire	350mm		
Dim-	Grey	AWG20 Solid Wire	350mm		

Warranty

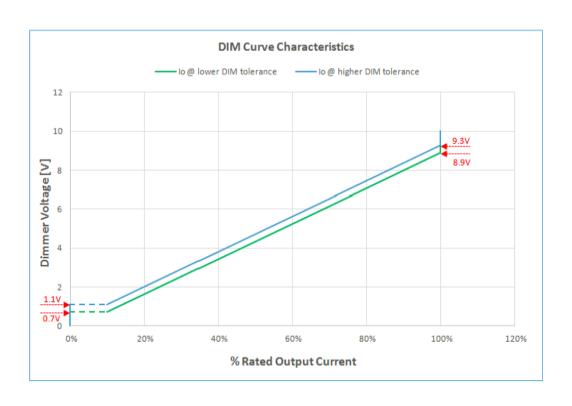
5 Years

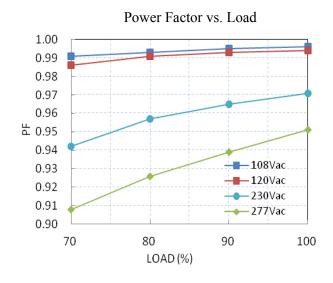


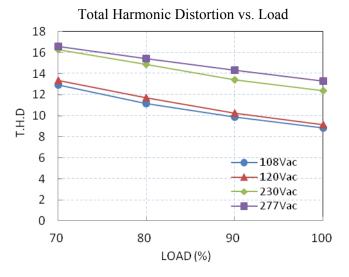
Dimming Characteristics

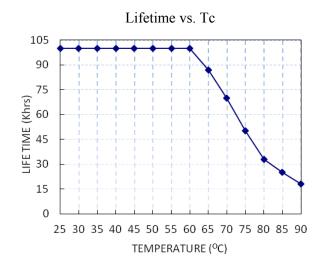
Resistive Dimming Functions

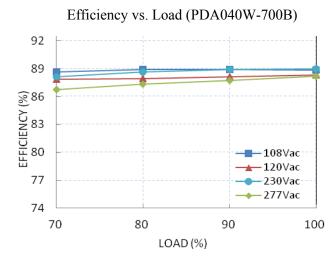
Resistance Value	0kΩ	9kΩ	13kΩ	23kΩ	45kΩ	68kΩ	91kΩ
Dim Voltage	0V	0.9V	1.3V	2.3V	4.5V	6.8V	9.1V
Output Current	Off	Off	15%	25%	50%	75%	100%











Temperature Rating

