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# 60W Dimmable Constant Current LED Driver PDA060W Waterproof LED Driver with 0-10V Dimming





### **Features**

- IP67 Rating waterproof
- OVP, OCP, Over-Load and Short-Circuit Protection
- >0.9 Power Factor Correction
- Brownout/Brownout Recovery

- Class 2 per UL1310 (except 700mA model)
- THD <20%
- UL 8750 Compliant
- 0-10V and Resistive Dimming
- 90 to 305VAC Input Voltage Range

# **Applications**

- Down lights
- Area Lights

• Architectural lighting

## **Safety Approvals (Pending)**

• cUL/UL

## **Mechanical Characteristics**

• Length: 162.5mm (6.39in) • Height: 32mm (1.26in)

• Width: 43mm (1.69in) • Weight: N/A

# **Output Specifications**

M - J - 1	DC	<b>Output Vol</b>	tage	Output	Output	
Model	Min. Typ.		Max.	Current	Power	
PDA060W-700B	60V	-	86V	700mA	60W	
PDA060W-1A0B	39V	-	56V	1070mA	60W	
PDA060W-1A4B	30V	-	43V	1400mA	60W	
PDA060W-1A6B	26V	-	38V	1600mA	60W	
PDA060W-2A0B	21V	-	30V	2000mA	60W	

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## PDA060W Specifications

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INPUT:

**AC Input Voltage Range** 

90VAC to 305VAC

**AC Input Voltage Rating** 

120VAC to 277VAC

**AC Input Frequency** 

47~63Hz

**Maximum Input Current** 

≤ 0.9A

Leakage Current

250μA maximum

**Power Factor** 

 $\geq 0.9$ 

**THD** 

Less than 20%

**OUTPUT:** 

**Efficiency** 

Model	Typical Efficiency
PDA060W-700B	91%
PDA060W-1A0B	91%
PDA060W-1A4B	91%
PDA060W-1A6B	91%
PDA060W-2A0B	91%

#### **Dimming Function:**

Resistance or 0-10VDC dimming

(See Characteristics below)

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

**Environmental:** 

Temperature

Operation -40 to +50°C Non-operation -40 to +80°C Operating Humidity 20 to 95% **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** 

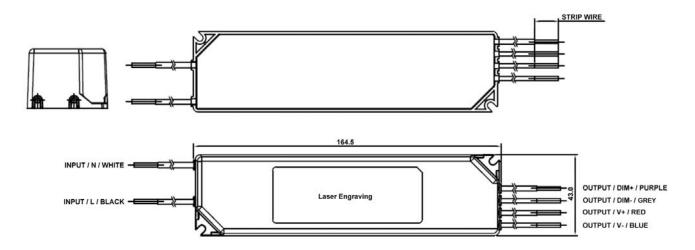
Auto shutdown

**Input / Output Connections** 

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

Warranty

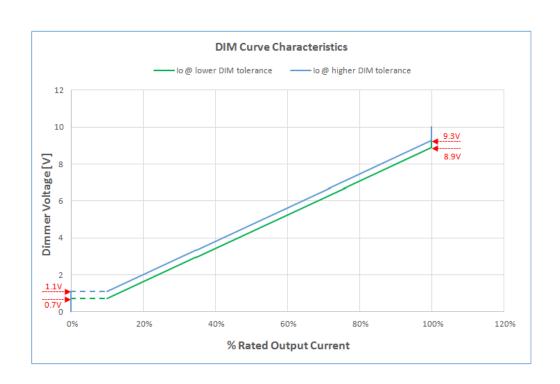
5 Years

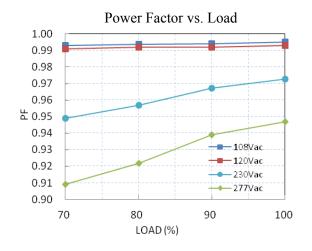


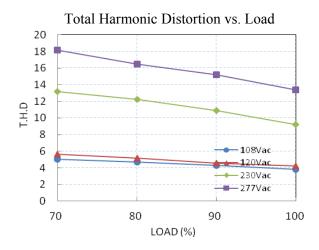
# **Dimming Characteristics**

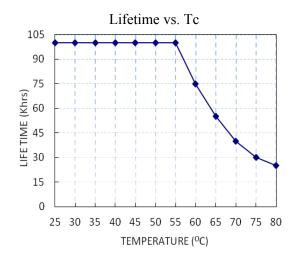
**Resistive Dimming Functions** 

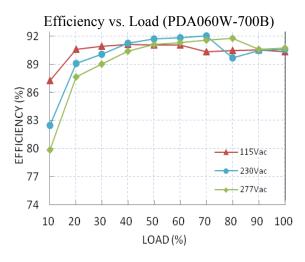
Resistance Value	10kΩ	20kΩ	$30k\Omega$	$40k\Omega$	50kΩ	$60 \mathrm{k}\Omega$	$70 \mathrm{k}\Omega$	$80$ k $\Omega$	90kΩ	100kΩ	Open
Output Current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95-108%











# **Temperature Rating**

