



## High Reliability 12W LED Driver PDA012X Series for Indoor and Architectural Lighting



### Features

- OVP, OCP, OTP, Short-Circuit Protection & Brownout Protection
- Very High Reliability
- Safe Extra Low Voltage (SELV)
- Class 2 Output per UL1310
- 100-136V & 185-304V Input Ranges
- $\geq 0.9$  Power Factor Correction
- 8 Year Warranty on –H Models
- 3 Year Warranty on Standard Models

### Applications

- Indoor
- Architectural

### Safety Approvals

- cUL/ UL8750
- CE

### Mechanical Characteristics

- Length: 132mm (5.2in)
- Width: 30mm (1.2in)
- Height: 22mm (0.9in)
- Weight: 150g (5.3oz)

### Output Specifications

Model <sup>(1)</sup>	Input Voltage Range		Output Voltage Range		Constant Current	Output Power
	Min.	Max.	Min.	Max.		
PDA012A-350C	185V	304V	20V	34.4V	350mA	12W
PDA012A-350C-H	185V	304V	20V	34.4V	350mA	12W
PDA012B-350C	100V	136V	20V	34.4V	350mA	12W
PDA012B-350C-H	100V	136V	20V	34.4V	350mA	12W

Notes (1): Models with –H feature longer lifespan; see MTBF on page 2 for more information

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**INPUT:**

**AC Input Voltage**  
 185 to 304VAC for A Models  
 100 to 136VAC for B Models

**Input Frequency**  
 47~63Hz

**Leakage Current**  
 <0.5mA at 230VAC and maximum load

**Maximum Input Current**  
 ≤1A

**OUTPUT:**  
**Total Output Power**  
 12W

**Efficiency**  
 75% for A models  
 77% for B models

**Power Factor**  
 ≥0.9

**Ripple**  
 Shall be less than 5% (p-p) of setting DC current output under electrical load condition

**ENVIRONMENTAL:**

Operating Temperature	-40 to 60°C (10W)
	-40 to 50°C (12W)
Storage Temperature	-40 to 77°C
Operating Humidity	10 to 95%
Storage Humidity	5 to 95%
Case Temperature	+80°C

**Warranty**  
 3 Years for standard models  
 8 Years for high reliability (-H) models

**Ingression Protection**  
 IP20; plastic housing

**Mounting Provision**  
 Screw mounting, accessible without opening unit

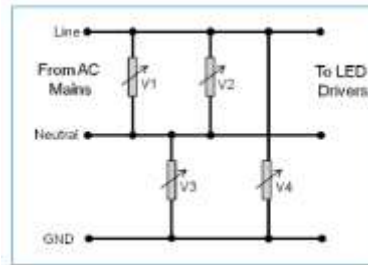
**Open Circuit Protection**  
 Once the circuit is opened, the output voltage should be less than 45V at normal AC input conditions

**EMC**  
 FCC 47 part 15/18 Class A  
 EN55015/CISPR 15

**Immunity**  
 EN61000-4-2  
 EN61000-4-5\*\*  
 EN61000-3-2 Class C

\*\*In order to meet 2.5KV Ring Wave per Energy Star SSL1.1 external MOVs are required:

560V 10mm for A models  
 240V 10mm for B models



**Isolation Test**  
 Primary to Secondary: 3000VAC, <5.5mA, 1 minute

**Insulation Resistance**  
 Primary to Secondary: 500VDC, >5M ohm, 1 minute

**Input Over-Current Protection**  
 The input power line will be fused with a 2A fuse

**Short Circuit Protection**  
 May withstand short circuit across outputs without damage

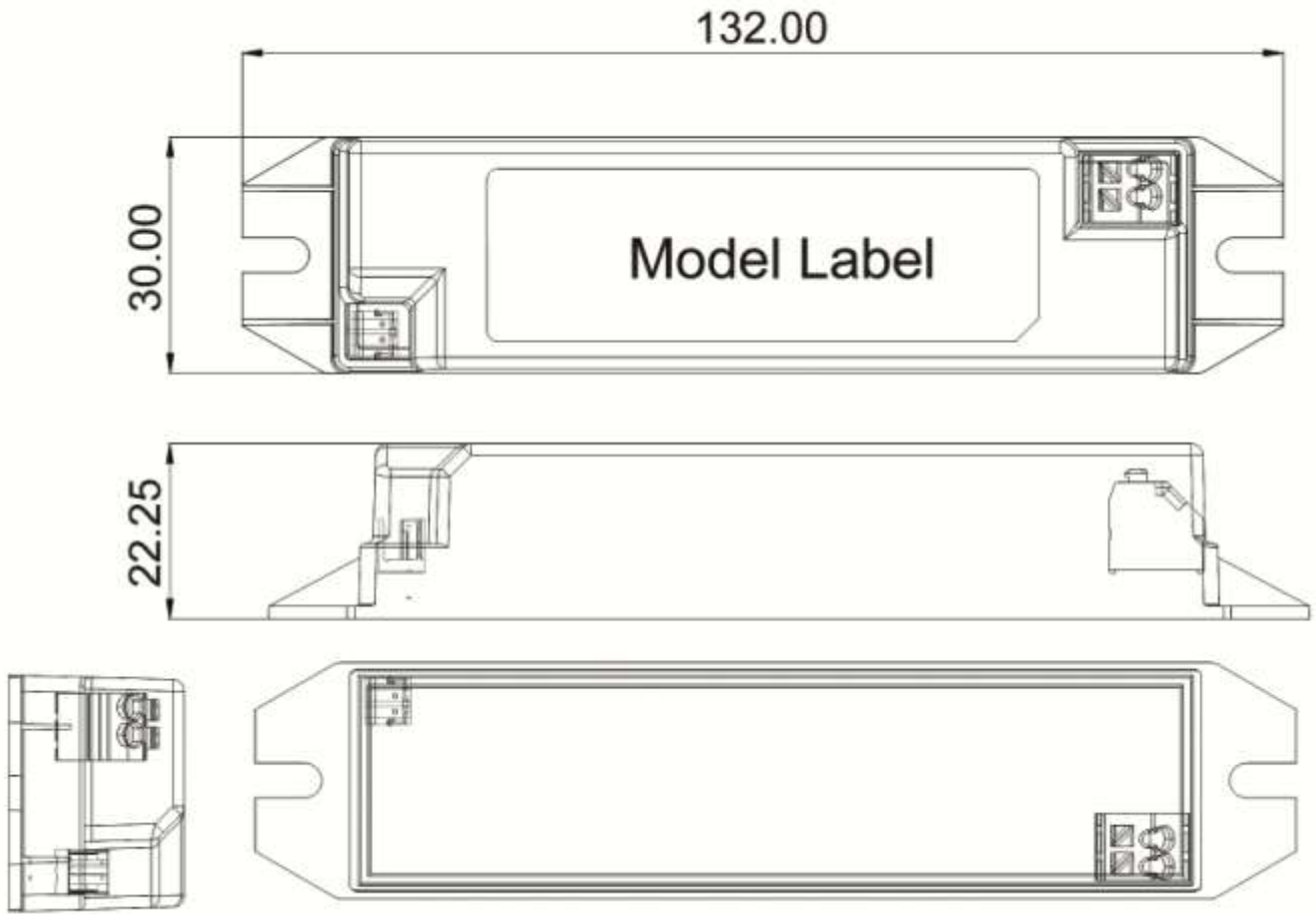
**Design Life**  
 50K Hours minimum at max load and ambient 50°C

**Design Life (H Models)**  
 100K Hours minimum at max load and ambient 50°C

**Input Connection**  
 ANYTEK 2-pin terminal block – p/n  
 HC0200C3001AG

Position	Terminal Color	Specification
Line	Black	AWG18~22 Solid or Standard
Neutral	White	AWG18~22 Solid or Standard

**DC Output Connection**  
 Superior Tech 2-pin p/n WRDD-DSXXT20WAA  
 mating AMP Connector p/n 1496992-1 or equivalent



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