



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
- ≥ 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 ⁽¹⁾	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

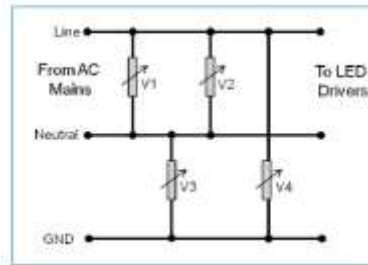
Open Circuit Protection
 Once the circuit is opened, the output voltage should be less than 45V at normal AC input conditions

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

