



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



Features

- Constant Current
- 100-136V & 185-304V Input Ranges
- Very High Reliability
- Safe Extra Low Voltage
- 3 Year Warranty on Standard Models
- OVP, OCP, OTP, Short-Circuit Protection
- Brownout Recovery
- UL8750 Compliant
- Power Factor Correction
- 8 Year Warranty on –H Models

Applications

- Indoor
- Architectural

Safety Approvals (PENDING)

- UL
- 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%

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

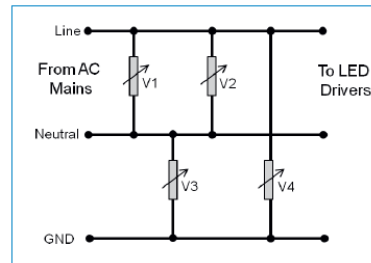
FCC 47 part 15/18 Class A
EN55015/CISPR 15

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

