



## 10W LED Driver with 700mA Constant Current PDA010B LED Power Supply for Indoor Lighting



### Features

- Constant Current
- OVP, OCP, Short/Open Circuit Protection
- IP20 Rating
- UL8750 Compliant
- SELV Compliant
- Brownout/Brownout Recovery
- Low Profile Design

### Applications

- Indoor Lighting
- Architectural Lighting

### Safety Approvals

- cUL/UL
- PSE

### Mechanical Characteristics

- Length: 106mm (4.17in)
- Width: 40mm (1.57in)
- Height: 21mm (0.83in)
- Weight: 85g (3oz)

### Output Specifications

| Model        | DC Output Voltage Range |      |      | Output Current Range |       |       | Max Power |
|--------------|-------------------------|------|------|----------------------|-------|-------|-----------|
|              | Min.                    | Typ. | Max. | Min.                 | Typ.  | Max.  |           |
| PDA010B-700C | 7.5V                    | -    | 12V  | 650mA                | 700mA | 750mA | 9W        |

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**INPUT:****AC Input Voltage**

90 to 132VAC

**Nominal AC Input Voltage**

100 to 127VAC

**Leakage Current**

0.5mA maximum at 110VAC

**Maximum Input Current** $\leq 160\text{mA}$  at 100VAC**OUTPUT:****Total Output Power**

9W absolute maximum

**Efficiency**

70% minimum at full load, nominal AC input

**Power Factor** $\geq 0.95$  at full load, nominal AC input**Ripple** $< 1\text{A}$ **Turn-on/off Delay Time**

0.5ms maximum at nominal AC power on

**ENVIRONMENTAL:**

Operating Temperature -20 to +50°C

Storage Temperature -40 to +85°C

Operating Humidity 10 to 95%

Storage Humidity 05 to 95%

**Warranty**

3 Years

**Ingression Protection**

IP20

**EMC**

EN55015, FCC 47 Part 15, EN55022 Class B

**Immunity**

IEC61000-4-2

IEC61000-4-5

IEC61000-3-2 Class C

IEC61000-3-3

**Isolation Test (HI-POT)**

Primary to secondary: 3750VAC for 1 minute, 10mA

**Insulation Resistance**Primary to secondary:  $> 5\text{M OHM}$  500VDC, 1 minute**FEATURES:****Input Over Current Protection**

The input power line will be fused with a 1.6A fuse

**Short Circuit Protection**

The Driver will withstand a short circuit across the outputs without damage

**Output Over Voltage Protection**

The output shall be protected (latched) from over voltage

**Open Circuit Protection**

Once the circuit is opened, the output voltage should be less than 14.4V at nominal AC input conditions.

**Lifetime**

20K Hours minimum

**Input / Output Connection**

2-pin terminal block

**Input / Output Wires (Solid or Stranded)**

| Position | Terminal Color | Specification |
|----------|----------------|---------------|
| Line     | Brown          | AWG10~24      |
| Neutral  | Blue           | AWG10~24      |
| Vout+    | Red            | AWG10~24      |
| Vout-    | Black          | AWG10~24      |

