



## 30W LED Driver with Constant Current 700mA PDA030B LED Power Supply for General Lighting



### Features

- Constant Current
- SELV Compliant
- Low Profile design
- IP20 Rating
- UL8750 Compliant
- Brownout/Brownout Recovery
- OVP, OCP, Short/Open Circuit Protection
- Wide Operating Temperature Range

### Applications

- General Lighting
- Indoor Lighting

### Safety Approvals

- cUL/UL
- PSE

### Mechanical Characteristics

- Length: 130mm (5.1in)
- Width: 40mm (1.6in)
- Height: 21mm (0.8in)
- Weight: 120g (4.2oz)

### Output Specifications

| Model        | DC Output Voltage Range |      |      | Output Current Range |       |       | Max Power |
|--------------|-------------------------|------|------|----------------------|-------|-------|-----------|
|              | Min.                    | Typ. | Max. | Min.                 | Typ.  | Max.  |           |
| PDA030B-700C | 15V                     | -    | 42V  | 650mA                | 700mA | 750mA | 31.5W     |

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**INPUT:**

**AC Input Voltage**  
90 to 132VAC

**Nominal AC Input Voltage**  
100 to 127VAC

**Leakage Current**  
0.5mA maximum

**Maximum Input Current**  
≤0.5A at 100VAC

**AC Inrush Current**  
≤20A at full load, 120VAC

**OUTPUT:**  
**Total Output Power**  
30W Typical

**Efficiency**  
82% minimum

**Power Factor**  
≥0.95 with full load

**Ripple**  
<1A

**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

**Lifetime**  
20K Hours

**EMC**

EN55015, FCC 47 Part 18, EN55022 Class B

**Immunity**

IEC61000-4-2  
IEC61000-4-5  
IEC61000-3-2 Class C  
IEC61000-3-3

**Isolation Test**

Primary to secondary: 3230VAC for 1 minute, 10mA

**Insulation Resistance**

Primary to secondary: >5M OHM 500VDC, 1 minute

**FEATURES:**

**Input Over Current Protection**

Input power line fused with 1.6A fuse

**Short Circuit**

Will withstand short circuit without damage

**Output Overvoltage Protection**

Protected (latched) from over voltage at nominal AC input.

**Open Circuit Protection**

Once circuit is opened, output will not be damaged at nominal AC input conditions

**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      |

**Ingression Protection**

IP20

**Dimension Diagram Unit:mm**

