



## 20-30W Universal 3-Wire Input Desktop Adapter PSAC30U Adapter Meets Ecodesign and EISA Requirements



### Features

- Low Cost
- EISA Energy Efficiency Compliance
- Ecodesign ErP Directive 2009/125/EC level 2 annex 1b compliant
- Non-Vented Case
- Class B EMI
- Low Profile Design
- Compact Size

### Applications

- Portable Equipment
- Peripherals
- Networking
- Gaming Machines

### Safety Approvals

- CE
- Meeting Cal. Prop. 65
- cUL/UL

### Mechanical Characteristics

- Length: 103.4mm (4.07in.)
- Width: 42mm (1.65in.)
- Height: 28.7mm (1.13in.)
- Weight: 160g (5.64oz)

### Output Specifications

| Model       | DC Output Voltage | Load |       | Ripple* | Output Power | Efficiency Level |
|-------------|-------------------|------|-------|---------|--------------|------------------|
|             |                   | Min. | Max.  |         |              |                  |
| PSAC30U-050 | 5V                | 0A   | 4.00A | 70mV    | 20W          | ⓧ                |
| PSAC30U-120 | 12V               | 0A   | 2.50A | 120mV   | 30W          | ⓧ                |
| PSAC30U-240 | 24V               | 0A   | 1.25A | 240mV   | 30W          | ⓧ                |
| PSAC30U-560 | 56V               | 0A   | 0.54A | 560mV   | 30W          | ⓧ                |

Note (\*): Measured with by-pass capacitors 0.1uF//10uf at output connector terminal and oscilloscope set at 20MHz.

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**INPUT:**

**AC Input Voltage Rating**  
100 to 240VAC

**AC Input Voltage Range**  
90 to 264VAC

**AC Input Current**  
0.8A (RMS) maximum at 120VAC  
0.5A (RMS) maximum at 240VAC

**In-rush Current**  
60A maximum at 100VAC  
100A maximum at 240VAC

**AC Input Frequency**  
47 to 63Hz

**Leakage Current**  
3.5mA maximum at 254VAC, 50Hz

**Input Power Saving**  
<0.3W maximum

**OUTPUT**  
**Output Power**  
30W

**Efficiency**  
Meets level V Efficiency Marking  
78.6% min. at 5V, 83.5% min at 12V, 24V and 56V

**ENVIRONMENTAL:**

Operating Temperature           0 to 40°C  
Storage Temperature           -20 to 75°C

Operating Humidity               20 to 90%

**EMI**

FCC Class B  
EN55022 Class B

**Immunity**

|              |         |
|--------------|---------|
| EN61000-4-2  | Level 4 |
| EN61000-4-3  | Level 2 |
| EN61000-4-4  | Level 2 |
| EN61000-4-5  | Level 3 |
| EN61000-4-6  | Level 2 |
| EN61000-4-8  | Level 1 |
| EN61000-4-11 |         |

**High-pot Test**

Input to output: 3000VAC, 10mA for 1 minute  
Input to F.G.: 1500VAC, 10mA for 1 minute

**Insulation Resistance**

Input to Output: >7M ohm 500VDC  
Input to F.G.: >7M ohm 500VDC

**Over Current Protection**

Auto restart without damage

**Over Voltage Protection**

160% maximum

**Short Circuit Protection**

Output can be shorted permanently without damage

**MTBF**

50K hours min at full load and 25°C ambient

**AC Input Connector**

IEC C14

**DC Output Connector**

5.5 x 2.1 x 10mm Center Positive Barrel

**Dimension Diagram Unit: mm (inch)**

