20-30 Watt Universal 3-Wire Input Adapter
PSC30U Adapter Series Meets CEC and EISA Requirements

Features
- Low Cost
- EISA Energy Efficiency Compliance
- Class B EMI
- Non-Vented/Spill-proof Case
- Low Profile Design

Applications
- Portable Equipment
- Peripherals
- Networking
- Gaming Machines

Safety Approvals
- cUL/UL
- Meeting Cal. Prop. 65
- C-Tick
- SAA

Mechanical Characteristics
- Length: 98.5mm (3.88in)
- Height: 31.5mm (1.24in)
- Width: 55mm (2.17in)
- Weight: 243g (8.57oz.)

Output Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>DC Output Voltage</th>
<th>Load</th>
<th>Efficiency Level(1)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Min.</td>
<td>Max.</td>
</tr>
<tr>
<td>PSC30U-050</td>
<td>+5V</td>
<td>0A</td>
<td>4.0A</td>
</tr>
<tr>
<td>PSC30U-120</td>
<td>+12V</td>
<td>0A</td>
<td>2.5A</td>
</tr>
<tr>
<td>PSC30U-240</td>
<td>+24V</td>
<td>0A</td>
<td>1.25A</td>
</tr>
<tr>
<td>PSC30U-480</td>
<td>+48V</td>
<td>0A</td>
<td>0.625A</td>
</tr>
</tbody>
</table>

(1) Level IV efficient products do not qualify for CE marking and therefore cannot be sold to countries in the EU

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Revised 11/8/2013
**PSC30U Characteristics**

**Input:**

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

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

**AC Input Frequency**
47 to 63Hz

**Input Current**
0.8A (RMS) maximum at 115V AC
0.5A (RMS) maximum at 240V AC

**Leakage Current**
3.5mA maximum

**Inrush Current**
60A for 240V AC at maximum load
(Cold start at ambient 25°C)

**Input Power Saving**
0.5W maximum at no load at 115V AC

**Output:**

**Power**
20W for 5V
30W for 12V, 24V, 48V

**Ripple**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Ripple</th>
</tr>
</thead>
<tbody>
<tr>
<td>5V</td>
<td>50mV</td>
</tr>
<tr>
<td>12V</td>
<td>120mV</td>
</tr>
<tr>
<td>24V</td>
<td>240mV</td>
</tr>
<tr>
<td>48V</td>
<td>480mV</td>
</tr>
</tbody>
</table>

(Measured after 10 minutes warm up at 25°C with 12-inch twisted pair terminated with a 10uF capacitor and 0.1uF ceramic in parallel.)

**Regulation Line & Load**
±5%

**Efficiency**
Level IV Compliant
For level V compliance see model PSC30U-V

**Emissions**
FCC Class B
EN55022 Class B

**Immunity**
IEC61000-4-2
IEC61000-4-3
IEC61000-4-4
IEC61000-4-5
IEC61000-4-6
IEC61000-4-8
IEC61000-4-11
EN61000-3-2

**Hold-up Time**
16mS minimum at 120V AC and maximum load

**Over-Voltage Protection**
By Zener Clamping, Adapter will be shut down

**Over-Current Protection**
Output equipped with short circuit protection - auto restart

**Short-Circuit Protection**
Output can be shorted without damage

**Insulation**
Input to Output: DC 500V 7M ohm

**Dielectric Withstand (Hi-pot) Test**
Input to Output: 1500V AC for 1 min., 10mA

**MTBF**
50K hours minimum at full load and 25°C

**DC Output Connector**
2.1 x 5.5 x 10mm Center Positive Standard

**DC Cord Length**
12V, 24V & 48V Models – 1850mm (72.8in)
5V model – 1500mm (59.1in)

**Dimension Diagram Unit: mm**
Click to View Pricing, Inventory, Delivery & Lifecycle Information:

**Phihong:**