120 Watt Universal 3-Wire Input Adapter
PSA120U Adapter Series meets EISA Requirements

Features
- EISA Compliant
- Class B EMI
- Non-vented/Spill-proof Case
- Level IV Efficiency Compliant

Applications
- Networking
- Peripherals
- Industrial
- Test and Measurement

Safety Approvals
- cUL/UL

Mechanical Characteristics
- Length: 174mm (6.85in)
- Width: 77mm (3.03in)
- Height: 43mm (1.69in)
- Weight: 0.8Kg (1.76lbs)

Output Specifications

<table>
<thead>
<tr>
<th>Model1</th>
<th>DC Output Voltage</th>
<th>Load</th>
<th>Efficiency Level3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Min.</td>
<td>Max.</td>
</tr>
<tr>
<td>PSA120U-120</td>
<td>12V</td>
<td>0A</td>
<td>10A</td>
</tr>
<tr>
<td>PSA120U-240</td>
<td>24V</td>
<td>0A</td>
<td>5.0A</td>
</tr>
<tr>
<td>PSA120U-480</td>
<td>48V</td>
<td>0A</td>
<td>2.5A</td>
</tr>
</tbody>
</table>

Notes:
1. MOQs of 200 pieces for 12V model and 220 pieces for 24V and 48V models.
2. Dynamic load from 0.1A to full load.
3. Level IV efficient products no longer qualify for CE and may not be sold in countries in the EU

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Revised 12/3/2013
PSA120U Characteristics

**Input:**

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

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

- **AC Input Frequency**
  47 to 63Hz

- **Input Current**
  2.5A at 100VAC
  1.5A at 240VAC

- **Leakage Current**
  3.5mA maximum at 254VAC and 50Hz

- **Inrush Current**
  65A at 120VAC
  130A at 240VAC
  (Cold Start at ambient 25°C)

- **Input Power Saving**
  <0.5W at no load, 115VAC
  <0.75W at no load, 230VAC

**OUTPUT:**

- **Efficiency Level**
  Level IV Compliant
  85% minimum average efficiency

- **Over-Voltage Protection**
  Output is protected from over voltage fault at all conditions including open-loop

- **Over-Power Protection**
  Auto-Reset

- **Ripple (P-P Max)**
  12V 150mV
  24V 240mV
  48V 480mV
  (Measured using 12-inch twisted pair terminated with a 10uF capacitor and 0.1uF ceramic in parallel)

- **Regulation (Line & Load)**
  ±5%

- **Short-Circuit Protection**
  Output will withstand a short circuit across the outputs with auto-restart function. Output can be shorted without damage.

**ENVIRONMENTAL**

- **Temperature**
  Operation 0 to +40°C
  Non-operation -20 to +70°C
  Humidity 20 to 80%

- **Emissions**
  FCC Class B
  EN55022 Class B
  CISPR22 Class B

- **Immunity**
  ESD EN61000-4-2
  RS EN61000-4-3
  EFT EN61000-4-4
  Surge EN61000-4-5
  CS EN61000-4-6
  Voltage Dips EN61000-4-11

- **Dielectric Withstand (Hi-Pot) Test**
  Primary to Secondary: 3000V AC for 1 min., 10mA

- **MTBF**
  ≥100K Hours when operated at 75% continuous load and ambient 25°C

**DC Output Connector (12V model)**

Molex P/N: 39-00-0059
Connecting Molex P/N: 39-01-3065

- **Pin**
  Pin 1: +12V
  Pin 2: +12V
  Pin 3: +12V
  Pin 4: GND
  Pin 5: GND
  Pin 6: GND

**DC Output Connector (24V, 48V and 56V models)**

2.5 x 5.5mm Center Positive Barrel Standard

**Input Connector**

3-Wire IEC320-C14
Phihong:
PSA120U-240-R  PSA120U-480-R  PSA120U-120-R