60 Watt Universal 3-Wire Input Adapter
PSAA60M Power Supply Meets EISA & Ecodesign Requirements

Features
- Low Cost
- Efficiency Level V Compliance\(^{(1)}\)
- Class B EMI
- Ecodesign ErP Directive 2009/125/EC level 2 annex 1b Compliant\(^{(1)}\)
- Non-vented/Spill Proof Case
- No Load Power Consumption < 0.5W
- Low Profile Design
- EISA Compliant

Applications
- Portable Equipment
- Peripherals
- Networking
- Gaming Machines

Safety Approvals
- CE
- cUL/UL
- TUV

Mechanical Characteristics
- Length: 130mm (5.12in)
- Height: 32mm (1.30in)
- Width: 60mm (2.36in)
- Weight: 300g (10.58oz)

Output Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>DC Output Voltage</th>
<th>Load</th>
<th>Ripple (^{(2)})</th>
<th>Regulation Line &amp; Load</th>
<th>Efficiency Level (^{(3)})</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min.</td>
<td>Max.</td>
<td>P-P (max.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSAA60M-120</td>
<td>+12V</td>
<td>0A</td>
<td>5.0A</td>
<td>120mV</td>
<td>±5% IV</td>
</tr>
<tr>
<td>PSAA60M-150</td>
<td>+15V</td>
<td>0A</td>
<td>4.0A</td>
<td>150mV</td>
<td>±5% V</td>
</tr>
<tr>
<td>PSAA60M-180</td>
<td>+18V</td>
<td>0A</td>
<td>3.3A</td>
<td>180mV</td>
<td>±5% V</td>
</tr>
<tr>
<td>PSAA60M-240</td>
<td>+24V</td>
<td>0A</td>
<td>2.5A</td>
<td>240mV</td>
<td>±5% V</td>
</tr>
<tr>
<td>PSAA60M-480</td>
<td>+48V</td>
<td>0A</td>
<td>1.25A</td>
<td>480mV</td>
<td>±5% V</td>
</tr>
</tbody>
</table>

\(^{(1)}\) Excludes 12V model which remains Level IV. Products not meeting requirements for Ecodesign Directive may not longer be shipped to the European Union for commercial or consumer purposes.

\(^{(2)}\) 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.

\(^{(3)}\) 15V-48V models may be marked as Level IV despite Level V compliance. If Level V marking is required, please contact Phihong directly to ensure stock is marked accordingly.

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PSAA60M Characteristics

**Input:**

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

**AC Input Frequency**
47 to 63Hz

**Input Current**
1.6A at 100V AC
0.7A at 240V AC

**Inrush Current**
90A maximum at 100V AC
150A maximum at 240V AC
(Cold Start at ambient 25°C)

**Leakage Current**
3.5mA maximum at 254V AC and 60Hz

**Input Power Saving**
< 0.5W at no load

**Output:**

**Output Power**
60W maximum

**Efficiency**
Meets Level V efficiency requirements

**Environmental:**

**Temperature**
Operation 0 to +40°C
Non-operation -20 to +80°C
Humidity 10 to 90%

**Emissions**
FCC Part 15 Class B
EN55022 Class B
VCCI Class B

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

**Over-Voltage Protection**
Circuit will latch the auto-restart.

**Over-Current Protection**
Output current over 5.5-7.5A then circuit will latch

**Short-Circuit Protection**
If output shorts then circuit will auto-restart

**Isolation**
Primary to Secondary: 500V DC >100M OHM

**Dielectric Withstand (Hi-pot) Test**
Primary to Secondary: 3000V AC for 1 min., 10mA
Primary to F.G.: 1500V AC for 1 min., 10mA

**DC Output Connector**
2.1 x 5.5 x 9.5mm Center Positive Barrel

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

![Dimension Diagram](image)
Mouser Electronics

Authorized Distributor

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Phihong:
PSAA60M-150-R  PSAA60M-240-R  PSAA60M-120-R  PSAA60M-180-R  PSAA60M-480-R