38W Universal Input, Dual Output Adapter
PSA45U-201 Switching Power Supply

Features
- Universal Input from 90-264V AC
- Built-in EMI Filter-Class B
- Overvoltage and Short Circuit Protection
- Compact Size

Applications
- Microcomputers
- Instruments
- Desktop Peripherals
- Test Equipment

Safety Approvals
- cUL/UL
- TUV
- CE

Mechanical Characteristics
- Length: 140mm (5.51in)
- Height: 40mm (1.58in)
- Width: 63mm (2.48in)
- Weight: 0.38kg (13.44oz)

Output Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>DC Output Voltage</th>
<th>Load</th>
<th>Ripple (1) P-P (max.)</th>
<th>Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Min.</td>
<td>Max.</td>
<td>Line</td>
</tr>
<tr>
<td>PSA45U-201</td>
<td>+5V</td>
<td>0.3A</td>
<td>4.0A</td>
<td>±1%</td>
</tr>
<tr>
<td></td>
<td>+12V</td>
<td>0.2A</td>
<td>1.5A</td>
<td>±1%</td>
</tr>
</tbody>
</table>

(1) Measured by using a 12 inch twisted pair terminated with a 10uF capacitor and a 0.1uF ceramic in parallel, at 38W.

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PSA45U 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**  
1.2A (RMS) 120V AC at maximum load  
0.6A (RMS) 240V AC at maximum load

**Leakage Current**  
3.5mA maximum

**Inrush Current**  
50A maximum for 120V AC at maximum load  
100A maximum for 240V AC at maximum load  
(cold start at ambient 25°C)

**Output:**

**Output Power**  
38W maximum

**Efficiency**  
70% typical at maximum load and 120V AC

**Hold-Up Time**  
12mS minimum at maximum load and 120V AC

**Environmental:**

**Temperature**  
Operation: 0 to +40°C  
Non-operation: -25 to +70°C  
Humidity: 5 to 80%

**Emissions**  
EN55022 Class B  
FCC Class B  
VCCI 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

**Over-Voltage Protection**  
By Zener Clamping, adapter will shut off.

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

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

**Immunity**  
EN61000-4-2 Level (ESD)  
EN61000-4-5 Level (Surge)

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

**Input Connector**  
IEC320 3 Pin

**Output Connector**  
9.5mm x 13.3mm

**Output Pins**  
1 Ground  
2 Ground  
3 +5V  
4 NC  
5 +12V
Mouser Electronics

Authorized Distributor

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Phihong:
PSA45U-201-R