Sparkle Power Inc.
A Leading Power Supply manufacturer
Web site: www.sparklepower.com

FSP250-60PLN (For Pentium 4 and Athlon XP)
250 Watts ATX12V Switching Power Supply

Features
- Complied with ATX and ATX12V standard
- Active Power Factor Correction Meeting with EN61000-3-2
- High efficiency and reliability
- Remote On/Off function
- Internal 12V DC 8cm fan included
- Noise Killer (Thermal fan speed control function)
- Low noise and ripple
- Complies with FCC part 15 subpart J Class B and CISPR 22 Class B
- Output over voltage, short circuit, and over current protection
- 100% Hi-pot, ATE, and burn-in tested
- Re-settable power shut down
- Approved by UL 1950, CSA C22.2 Level 3, TUV EN60950, NEMKO EN60950 (CB Report), CE

Specification
- Temperature Range: Operating 0°C ~ +50°C on full load; storage & shipping -20°C ~ +80°C
- Humidity: 95% on operating and 95% on storage
- Dielectric Withstand: Input to frame ground 1800V AC for 1 second
- Efficiency: 65% at minimum measured at nominal AC main voltage and frequency with maximum load on all output
- Rise Time: Less than 20ms
- Hold-up Time: 17ms minimum at nominal input voltage
- Power Good Signal: Power on delay time 100 ms to 500 ms, off delay 1ms minimum (TTL and CMOS compatible)
- Leakage Current: Not exceed 0.75mA at 115V AC, 60Hz
- MTBF: 100,000 hours on maximum load at +25°C degree
- Dimension (WxHxL): 150x86x140mm/5.9”x3.4”x5.5” inches

Input Characteristics
Input Range: 90–264V AC, Full Range Input
Frequency: 47–63Hz
Input Current: 5A (RMS) @115V AC, 2.5A (RMS) @230V AC
Inrush Current: 50A Max for 115V AC, 80A Max for 230V AC Cold start

Output Characteristics

<table>
<thead>
<tr>
<th>Output Voltage</th>
<th>Minimum Load</th>
<th>Maximum Load</th>
<th>Peak</th>
<th>Load Reg.</th>
<th>Line Reg.</th>
<th>Ripple &amp; Noise</th>
</tr>
</thead>
<tbody>
<tr>
<td>+3.3V</td>
<td>0.3A</td>
<td>25.0A</td>
<td></td>
<td>± 5%</td>
<td>± 1%</td>
<td>50mV P-P</td>
</tr>
<tr>
<td>+5V</td>
<td>0.1A</td>
<td>25.0A</td>
<td></td>
<td>± 5%</td>
<td>± 1%</td>
<td>50mV P-P</td>
</tr>
<tr>
<td>+12V</td>
<td>0.0A</td>
<td>13.0A</td>
<td>16.0A</td>
<td>± 5%</td>
<td>± 1%</td>
<td>120mV P-P</td>
</tr>
<tr>
<td>-5V</td>
<td>0.0A</td>
<td>0.3A</td>
<td></td>
<td>± 5%</td>
<td>± 2%</td>
<td>100mV P-P</td>
</tr>
<tr>
<td>-12V</td>
<td>0.0A</td>
<td>0.8A</td>
<td></td>
<td>± 5%</td>
<td>± 2%</td>
<td>120mV P-P</td>
</tr>
<tr>
<td>+5Vsb</td>
<td>0.0A</td>
<td>2.0 A</td>
<td></td>
<td>± 5%</td>
<td>± 1%</td>
<td>100mV P-P</td>
</tr>
</tbody>
</table>

*+5V and +3.3V total output not exceed 150W
*+3.3V, +5V, and +12V total output cannot exceed 230W

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