



# Sparkle Power Inc.

A Leading Power Supply manufacturer  
Web site: [www.sparklepower.com](http://www.sparklepower.com)



## **FSP250-60GTB** (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

### **Input Characteristics**

**Input Range:** 90~264V AC, Full Range Input

**Frequency:** 47~63Hz

**Input Current:** 10A (RMS) @115V AC, 5A (RMS) @230V AC

**Inrush Current:** 60A Max for 264V AC Cold start

### **Specification**

- **Temperature Range:** Operating 0° C ~ +40° C on full load; storage & shipping -20° C ~ +65° C
- **Humidity:** 90% 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:** 16ms minimum at 115V/60Hz and 20ms minimum at 230V/50Hz 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 3.5mA
- **MTBF:** 100,000 hours on maximum load at +25° C degree
- **Dimension (WxHxL):** 150x86x140mm/5.9"x3.4"x5.5" inches

### **Output Characteristics**

| Output Voltage | Minimum Load | Maximum Load | Load Reg. | Line Reg. | Ripple & Noise |
|----------------|--------------|--------------|-----------|-----------|----------------|
| +3.3V          | 0.3A         | 12.12/20A    | ± 5%      | ± 1%      | 50mV P-P       |
| +5V            | 0.1A         | 27/21.8A     | ± 5%      | ± 1%      | 50mV P-P       |
| +12V           | 0.0A         | 13.0A        | ± 5%      | ± 1%      | 120mV P-P      |
| -5V            | 0.0A         | 0.3A         | ± 10%     | ± 2%      | 120mV P-P      |
| -12V           | 0.0A         | 0.8A         | ± 10%     | ± 2%      | 120mV P-P      |
| +5Vsb          | 0.0A         | 2.0 A        | ± 5%      | ± 1%      | 50mV P-P       |

\*+5V and +3.3V total output not exceed 175W

\*When +3.3V is load on 20A, the +5V maximum load is 21.8A

\*When +3.3V is load on 12.12A, the +5V maximum load is 27A

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

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