



# Sparkle Power Inc.

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



## FSP250-60THA

### 250 Watts ATX12V 2.0 Switching Power Supply

#### Features

- Complied with ATX12V 2.0 standard
- High efficiency and reliability
- Remote On/Off function
- Internal 12V DC 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 60950, CSA C22.2 Level 3, TUV EN60950, NEMKO (CB Report)

#### Input Characteristics

**Input Range:** +/-10% of 115Vrms or 230Vrms, Manual selection

**Frequency:** 47~63Hz

**Input Current:** 6A (RMS) @115V AC, 3A (RMS) @230V AC

**Inrush Current:** 60A max cold start, 90A warm measured at 264rms/50Hz

#### Specification

- **Temperature Range:** Operating 0° C ~ +25° C on full load; De-rate 2W/C from +50° C to +25° C; 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:** 70% at minimum measured at nominal AC main voltage and frequency with maximum load on all output
- **Rise Time:** Less than 20ms on all output
- **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 3.5mA
- **MTBF:** 100,000 hours on maximum load at +25° C degree
- **Dimension (WxHxL):** 150x86x140mm/6"x3.4"x5.5" inches

#### Output Characteristics

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.5A	7.5/17A	± 5%	± 1%	50mV P-P
+5V	1.0A	11.7/18A	± 5%	± 1%	50mV P-P
+12V1	1.0A	8A	± 5%	± 1%	120mV P-P
+12V2	1.0A	14A	± 5%	± 1%	120mV P-P
-12V	0.0A	0.3A	± 10%	± 2%	120mV P-P
+5Vsb	0.0A	2.0 A	± 5%	± 1%	50mV P-P

\*+5V and +3.3V total output not exceed 115W

\*When +3.3V is load on 17A, the +5V maximum load is 11.7A

\*When +3.3V is load on 7.5A, the +5V maximum load is 18A

\*+3.3V, +5V, +12V1, and +12V2 total output not exceed 236W

xx7

#### **Sparkle Power Inc.**

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