



# Sparkle Power Inc.

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



## FSP200-40AT(I221)

### 200 Watts Flex AT Switching Power Supply

#### Features

- High efficiency and reliability
- 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 1950, CSA C22.2 Level 3, NEMKO (CB Report),

#### Input Characteristics

**Input Range:** 90~132/180~264V AC, Manual selection

**Frequency:** 47~63Hz

**Input Current:** 5A (RMS) @115V AC, 3A (RMS) @230V AC

**Inrush Current:** 50A Max for 115V AC, 80A Max for 230V AC Cold start

#### Output Characteristics

Output Voltage	Minimum Load	Maximum Load	Peak	Load Reg.	Line Reg.	Ripple & Noise
+5V	1.0A	15A		± 5%	± 1%	50mV P-P
+12V	0.2A	10A	13A	± 5%	± 1%	120mV P-P
-12V	0.0A	0.3A		± 10%	± 2%	120mV P-P

\*+5V, and +12V total output cannot exceed 146.4W at 50° C

\*+5V, and +12V total output cannot exceed 196.4W at 25° C

#### Specification

- **Temperature Range:** Operating 0° C ~ +25° 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:** 70% 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):** 82x42.9x190mm/3.2"x1.7"x7.5" inches

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