



# Sparkle Power Inc.

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



## FSP200-50N1V

### 200 Watts SFX12V Medical Grade Switching Power Supply

#### Features

- Complied with SFX and SFX12V 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 2601, CSA C22.2 Level 3, VDE 60950-2000, NEMKO (CB Report)

#### Input Characteristics

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

**Frequency:** 47~63Hz

**Input Current:** 6A (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	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.3A	16.7A	± 5%	± 1%	50mV P-P
+5V	2.0A	16A	± 5%	± 1%	50mV P-P
+12V	0.2A	10A	± 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 118W

\*+3.3V, +5V, and +12V total output cannot exceed 185W

#### Specification

- **Temperature Range:** Operating 0° C ~ +25° 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:** 16.6ms 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 0.5mA at 254V AC, 50Hz
- **MTBF:** 100,000 hours on maximum load at +25° C degree
- **Dimension (WxHxL):** 125x76.4x100mm/5"x3"x4" inches

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