



# Sparkle Power Inc.

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



## FSP350-50BR2

### 350 Watts 1+1 Redundant Switching Power Supply

#### Features

- Complied with ATX12V standard
- Hot swappable 1+1 redundant
- Active Power Factor Correction Meeting with EN61000-3-2
- High efficiency and reliability
- Remote On/Off function
- Internal 12V DC fan included on each module
- 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
- LED Indicator, PS failure signal, and Fan failure signal
- +3.3V, +5V, and +12V Remote Sensing
- Approved by cUL/UL 60950, TUV EN60950, NEMKO EN60950 (CB Report), CE

#### Specification

- **Temperature Range:** Operating +5° C ~ +40° C on full load; storage & shipping -10° C ~ +50° C
- **Humidity:** 90% on operating and 95% on storage
- **Dielectric Withstand:** Input to frame ground 1800V AC for 1 second
- **Efficiency:** 65% typical measured at 115V AC main voltage and frequency full load
- **Rise Time:** 50ms maximum
- **Hold-up Time:** 20ms 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 at nominal input
- **MTBF:** 100,000 hours on maximum load at +25° C degree
- **Dimension (WxHxL):** 150x86x225mm/5.9"x3.4"x8.9" inches

#### Input Characteristics

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

**Frequency:** 47~63Hz

**Input Current:** 7A (RMS) @115V AC, 3.5A (RMS) @230V AC

**Inrush Current:** Comply with EN 61000-3-3

#### Output Characteristics

| Output Voltage | Minimum Load | Maximum Load | Load Reg. | Line Reg. | Ripple & Noise |
|----------------|--------------|--------------|-----------|-----------|----------------|
| +3.3V          | 0.3A         | 28.0A        | ±5%       | ± 1%      | 50mV P-P       |
| +5V            | 1.5A         | 30.0A        | ±5%       | ± 1%      | 50mV P-P       |
| +12V           | 1.0A         | 15.0A        | ±5%       | ± 1%      | 120mV P-P      |
| -12V           | 0.0A         | 0.8A         | ± 10%     | ± 1%      | 150mV P-P      |
| +5Vsb          | 0.0A         | 2.0A         | ±5%       | ± 1%      | 50mV P-P       |

\*+5V and +3.3V total output shall not exceed 157W

\*+5V, +12V and +3.3V total output shall not exceed 330W

\* Total output power shall not exceed 350W

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