



**Sparkle Power Inc.**  
A Leading Power Supply Manufacturer  
Web site: [www.sparklepower.com](http://www.sparklepower.com)



**FSP500-50WCB**  
**(Meet 80plus Bronze, RoHs Compliant)**  
**500 Watts 2U Switching Power Supply**

**Features**

- Complied with 2U ATX and ATX12V standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- High efficiency and reliability
- Restriction on Hazardous Substances. Compatible with European Union Directive 2011/65/EU & (EU)2015/863, WEEE directive 2012/19/EU .
- Remote ON/OFF function
- Internal 12V DC fan included
- Low noise and ripple
- Output over voltage, short circuit, and over power protection
- 100% Hi-pot, ATE, and burn-in tested
- Re-settable power shut down
- Complies with FCC part 15 subpart J, class 'B' 115Vac operation, and CISPR 22 class 'B' at 230Vac operation
- Approved by CB 62368 & 60950-1 2<sup>nd</sup>, EMC. cUL/UL TUV, FCC, CE

**Input Characteristics**

**Input Range:** 90 ~ 264Vac (RMS), Full Range Input  
**Frequency:** 47 ~ 63Hz  
**Input Current:** Max 8A (RMS) @ 115Vac, 4A (RMS) @ 230Vac  
**Inrush Current:** No damage.

**Output Characteristics**

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Ripple & Noise
+3.3V	0A	14.0A	± 5%	50mV P-P
+5V	0A	16.0A	± 5%	50mV P-P
+12V	0.1A	41.0A	± 5%	120mV P-P
-12V	0A	0.3A	± 10%	120mV P-P
+5Vsb	0A	3A	± 5%	50mV P-P
-5V (option)	0A	0.1A	± 10%	100mV P-P

\*+3.3V and +5V total output not exceed 90W. \*-5V option  
\* Total output for this subject power supply is 500W

**Specification**

- **Temperature Range:** Operating: 0°C ~ +50°C; storage : -40°C ~ +80°C
- **Humidity:** 85% RH, Non-condensing on operating, 95%RH, Non-condensing on storage.
- **Dielectric Withstand:** Primary frame ground 1800V AC for 2 second
- **Efficiency:** Typical > 85%
- **Altitude:** The power supply is applied for tropical climates and use at altitudes not exceeding 5000m above Sea level
- **Rise time:** Less than 20ms
- **Hold-up Time:** 115V:≥10ms, 230V:≥12ms, at 100% load.
- **Power Good Signal:** Power on delay time 100 ~ 500ms, off delay 1ms minimum (TTL and CMOS compatible)
- **Leakage Current:** Less than 3.5mA at 264Vac, 50Hz
- **MTBF:** A minimum predicted MTBF (MIL-HDBK-217) of 100,000 hours of continuous operation at +25°C.
- **Dimensions (LxWxH):**200x100x70mm  
7.88x3.93x2.76inch

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