



Sparkle Power Inc.
A Leading Power Supply Manufacturer
Web site: www.sparklepower.com



FSP300-50WCB
(Meet 80plus Bronze, RoHs Compliant)
300 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 2nd, EMC. cUL/UL TUV, FCC, CE

Input Characteristics

Input Range: 90 ~ 264Vac (RMS), Full Range Input
Frequency: 47 ~ 63Hz
Input Current: Max 6A (RMS) @ 115Vac, 3A (RMS) @ 230Vac
Inrush Current: No damage.

Output Characteristics

| Output Voltage | Minimum Load | Maximum Load | Load Reg. | Ripple & Noise |
|----------------|--------------|--------------|-----------|----------------|
| +3.3V | 0A | 12.0A | ± 5% | 50mV P-P |
| +5V | 0A | 14.0A | ± 5% | 50mV P-P |
| +12V | 0.1A | 25.0A | ± 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 80W. *-5V option
* Total output for this subject power supply is 300W

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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