



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



FSP250-50FEB
(Meet 80plus Bronze, RoHS Compliant)
250 Watts Flex ATX Switching Power Supply

Features

- Complied with Flex ATX and ATX12V standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- High efficiency and reliability
- Compatible with European Union Directive 2011/65/EU & (EU)2015/863 (Restriction on Hazardous Substances).
- Remote ON/OFF function
- Internal 12V DC fan included
- Low noise and ripple
- Output over voltage, short circuit, and over current 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 32 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 4A (RMS) @ 115Vac, 2A (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	0A	18.0A	± 5%	120mV P-P
-12V	0A	0.3A	± 10%	120mV P-P
+5Vsb	0A	2.5A	± 5%	50mV P-P

*+3.3V and +5V total output not exceed 80W
* Total output for this subject power supply is 250W

Specification

- **Temperature Range:** Operating: 0°C ~ +50°C;
storage : -20°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
- **Standby Power Consumption (5Vsb):**
Efficiency> 45% @ 5Vsb/45mA & 230Vac input (2013 Lot 6)
Efficiency> 55% @ 5Vsb/550mA & 230Vac input
Efficiency> 70% @ 5Vsb/1A & 230Vac input
Efficiency > 70% @ 5Vsb/2.5A & 230Vac input
- **Rise time:** Less than 20ms
- **Hold-up Time:** 16ms minimum at 80% 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):** 150x81.5x40.5mm / 6x3.2x1.6inch

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