



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



## FSP250-53FGB

**Full modular  
( RoHS Compliant)**

**250 Watts Flex DC to DC Switching Power Supply**



### Features

- Complied with Flex ATX and ATX12V standard
- 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, over current protection, 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 32 class B at 230Vac operation
- Approved by CB 62368 & 60950-1 2<sup>nd</sup>, EMC. CUL/UL, FCC, CE

### Input Characteristics

**Input Range:** -48Vdc (-72V~-36Vdc)

**Input Current:** Max 10A @ -48Vdc

**Inrush Current:** No damage.

### Output Characteristics

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Ripple & Noise
+3.3V	0A	10.0A	± 5%	50mV P-P
+5V	0.2A	14.0A	± 5%	50mV P-P
+12V	0.5A	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

\* -12V,+3.3V, +5V,+12V will have the regulation to±10% when all load take off.

### Specification

- **Temperature Range:** Operating: 0°C ~ +50°C; storage & shipping: -20°C ~ +80°C
- **Humidity:** 5~85% RH, Non-condensing on operating, 5~95%RH, Non-condensing on storage.
- **Dielectric Withstand:** Primary to frame ground 1800Vac for 1second
- **Efficiency:** Typical > 82%
- **Altitude:** The power supply is applied at altitudes not exceeding 5000m above Sea level
- **Rise time:** Less than 20ms
- **Hold-up Time:** 2ms minimum at 48Vdc input.
- **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, 63Hz
- **MTBF:** A minimum predicted MTBF (MIL-HDBK-217) of 100,000 hours of continuous operation at +25°C.
- **Dimensions (LxWxH) :** 150x81.5x40.5mm  
/ 5.91x3.21x1.6inch

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