



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



## FSP150-50FGBBB

**(Fanless, meet 80PLUS Bronze, RoHS Compliant)**

**150 Watts Fanless Flex ATX Switching Power Supply**

### Features

- Complied with Flex ATX standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- High efficiency and reliability
- Compatible with European Union Directive 2011/65/EU (Restriction on Hazardous Substances).
- Remote ON/OFF function
- Fanless.
- 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 22 class B at 230Vac operation
- Approved by : UL/CUL60950-1 2<sup>nd</sup> TUV EN60950-1 2<sup>nd</sup>, CB 60950-1 2<sup>nd</sup>, FCC, EMC, CE

### Input Characteristics

**Input Range:** 90 ~ 264Vac, Full Range Input

**Frequency:** 47 ~ 63Hz

**Input Current:** Max 4.0A @ 115Vac, 2.0A @ 230Vac

**Inrush Current:** No Damage

### Output Characteristics

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Ripple & Noise
+3.3V	0.3A	8.0A	± 5%	50mV P-P
+5V	0.5A	10.0A	± 5%	50mV P-P
+12V	1.0A	10.0A	± 5%	120mV P-P
-12V	0A	0.3A	± 10%	120mV P-P
+5Vsb	0A	2.0A	± 5%	50mV P-P

\* Total combined output of 3.3V and 5V is  $\leq$  60W.

\* Total output for this subject power supply is 150W.

### Specification

- **Temperature Range:** Operating: 0°C ~+70°C  
 A moderate air flow (a minimal of 5 CFM) is necessary for power supply to meet thermal requirement at +50°C on full load or at +70°C @90W load.
- **Humidity:** Operating : 85% RH, Non-condensing,  
 Storage : 95% RH, Non-condensing
- **Dielectric Withstand:** Primary frame ground 1800V AC for 2 second
- **Efficiency:** Typical > 85%
- **Altitude:** operating up to 5K Meter.
- **Meet ErP:** 5Vsb/45mA & 230Vac/50Hz input @ Efficiency  $\geq$ 45% (PS\_ON input at high state)
- **Rise time:** Less than 20ms
- **Hold-up Time:** 15 ms minimum at nominal input voltage
- **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:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 150x81.5x40.5mm  
 / 5.9x3.2x1.6 inch

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