



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

## R-FSP1000-50TGM

**(80PLUS Gold, RoHS Compliant)**

**1000 Watts ATX12V V2.3 EPS12V V2.92 Switching  
Power Supply (Meet 2013 ErP)**

### Features

- Complied with ATX12V V2.3 EPS12V V2.92 standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- High efficiency and reliability
- Compatible with European Union Directive 2002/95/EC (Restriction on Hazardous Substances).
- Remote ON/OFF function
- Internal 12V DC fan included
- Noise Killer (thermal fan speed control function)
- 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 CUL/UL60950-1, TUV EN60950-1, CB 60950-1 report, FCC, EMC.

### Input Characteristics

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

**Frequency:** 47 ~ 63Hz

**Input Current:** Max 14A@115Vac, 8A@230Vac

**Inrush Current:** No damage.

### Output Characteristics

Output	Min Current	Normal Current	Max Current	Peak Current
+3.3V	0.1A	18A	25A	
+5V	0.1A	18A	25A	
+12V	0.5A	62A	83A	
-12V	0.0A	0.5A	0.8A	
+5Vsb	0.1A	2.25A	3.0A	3.5A

(1) +3.3V & +5V total output not exceed 160W.

(2) Maximum combined current for the 12V outputs shall be 83A.

(3) Total output power for the proposal power supply is 1000 watts

(4) Connectors: 1x 24pin Main Power Connector; 1x 4+4pin +12V Power Connector; 1x 8pin +12V Power Connector; 6x 4pin Peripheral Connector; 1x Floppy Connectors; 10x 5pin SATA Connectors; 8x 6+2pin PCI Express Connector; 2x Fan Connectors.

**Sparkle Power Inc.**

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### Specification

- **Temperature Range:** Operating: +0°C ~ +40°C on full load  
Storage & Shipping: -20°C ~ +80°C
- **Humidity:** 5-95% on operating, 5-95% on storage
- **Dielectric Withstand:** Primary to frame ground 1800V<sub>AC</sub> for 3 second
- **Efficiency:** 87% minimum, typical up to 90%
- **Rise time:** Less than 20ms
- **Hold-up Time:** 17ms minimum at nominal input voltage
- **Power Good Signal:** Power on delay time 100 ~ 500ms, off delay 1ms minimum
- **Leakage Current:** Less than 3.5mA at 264Vac, 50Hz
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 180x150x85.8mm / 7.1x5.9x3.4inch

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