



Sparkle Power Inc.
A Leading Power Supply
Manufacturer
www.sparklepower.com



R-FSP850-50TGM

(80PLUS Gold, RoHS Compliant)

**850 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 13A@115Vac, 7A@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	52A	70A	
-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 70A.

(3) Total output power for the proposal power supply is 850 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.



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_{AC} 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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