



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

R-FSP500-70ETN

(80PLUS Platinum, RoHS Compliant)

**500 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: 8 Amp (maximum) at 100-127Vrms/ 60 Hz

4Amp (maximum) at 200-240 Vrms/ 50 Hz.

Inrush Current: No damage.

Output Characteristics

	MINIMUM LOAD	NORMAL LOAD	MAXIMUM LOAD	LOAD REG.	LINE REG.	RIPPLE & NOISE
+3.3V	0.1A	12A	16/3A	±5%	±1%	50mV P-P
+5V	0.2A	12A	7.4/16A	±5%	±1%	50mV P-P
+12V1	0.1A	8A	18A	±5%	±1%	120mV P-P
+12V2	0A	8A	18A	±5%	±1%	120mV P-P
+12V3	0A	8A	18A	±5%	±1%	120mV P-P
-12V	0A	0.15A	0.3A	±10%	±2%	200mV P-P
+5Vsb	0A	1.5A	3A	±5%	±1%	50mV P-P

Sparkle Power Inc.

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Specification

- **Temperature Range:** Operating: +0°C ~ +40°C on full load
Storage & Shipping: -40°C ~ +70°C
- **Humidity:** 5-85% on operating, 5-95% on storage
- **Efficiency:** 89% minimum, typical up to 92%
- **Rise time:** 15ms maximum
- **Hold-up Time:** 17ms 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):** 140x150x85.8mm / 5.5x5.9x3.4inch

(1) +3.3V & +5V total output not exceed 90W.

When +5V is load to 16A, the +3.3V maximum load is 3A.

When +3.3V is load to 16A, the +5V maximum load is 7.4A.

(2) +12V1 & +12V2 & +12V3 total output not exceed 456W(38A).

(3) All outputs shall be safety-isolated from the AC mains and share a common

return. This common return must be connected to supply chassis.

(4) Voltages and ripple are measured at the load side of mating connectors with a

0.1uF monolithic ceramic capacitor paralleled by a 10uF electrolytic capacitor

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