



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

## R-FSP700-80ETN

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

**700 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:** 10Amp (maximum) at 100-127Vrms/ 60 Hz

5Amp (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
<b>+3.3V</b>	<b>0.1A</b>	<b>10A</b>	<b>20/3A</b>	<b>±5%</b>	<b>±1%</b>	<b>50mV P-P</b>
<b>+5V</b>	<b>0.2A</b>	<b>9A</b>	<b>6.8/20A</b>	<b>±5%</b>	<b>±1%</b>	<b>50mV P-P</b>
<b>+12V1</b>	<b>0.1A</b>	<b>9A</b>	<b>18A</b>	<b>±5%</b>	<b>±1%</b>	<b>120mV P-P</b>
<b>+12V2</b>	<b>0A</b>	<b>9A</b>	<b>18A</b>	<b>±5%</b>	<b>±1%</b>	<b>120mV P-P</b>
<b>+12V3</b>	<b>0A</b>	<b>9A</b>	<b>18A</b>	<b>±5%</b>	<b>±1%</b>	<b>120mV P-P</b>
<b>+12V4</b>	<b>0A</b>	<b>9A</b>	<b>18A</b>	<b>±5%</b>	<b>±1%</b>	<b>120mV P-P</b>
<b>-12V</b>	<b>0A</b>	<b>0.15A</b>	<b>0.3A</b>	<b>±10%</b>	<b>±2%</b>	<b>200mV P-P</b>
<b>+5Vsb</b>	<b>0A</b>	<b>1.5A</b>	<b>3A</b>	<b>±5%</b>	<b>±1%</b>	<b>50mV P-P</b>

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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 110W.

When +5V is load to 20A, the +3.3V maximum load is 3A.

When +3.3V is load to 20A, the +5V maximum load is 8.8A.

(2) +12V1 & +12V2 & +12V3 & +12V4 total output not exceed 648W(54A).

(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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