

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

FSP700-50ERN

(80PLUS Silver, RoHS Compliant) 700 Watts ATX12V 2.3 Switching Power Supply Meet 2013 ErP Support C6/C7 idle states for Haswell CPU

Features

- Complied with ATX12V 2.3 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, CE

Input Characteristics

Input Range: 90 ~ 264Vac, Full Range Input Frequency: 47 ~ 63Hz Input Current: Max 10A @ 115Vac, 5A @ 230Vac Inrush Current: No damage.

Output Characteristics

	MINIMUM LOAD	NORMAL LOAD	MAXIMUM LOAD	LOAD REG.	LINE REG.	RIPPLE & NOISE
+3.3V	0.2A	10A	25/10.6A	±5%	±1%	50mV P-P
+5V	1A	10A	15.5/25A	±5%	±1%	50mV P-P
+12V	0.05A	24A	56A	±5%	±1%	120mV P-P
-12V	0A	0.25A	0.3A	±10%	±2%	200mV P-P
+5Vsb	A 0	1A	3A	±5%	±1%	50mV P-P

+5Vsb peak current is 4A(less then 0.5S).

Supports C6/C7 idle states for Haswell CPU(+12V min. load 0.05A)

Sparkle Power Inc.

Main Office

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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
- **Dielectric Withstand:** Primary to frame ground 1800V_{AC} for 1 second
- Efficiency: 85% minimum, typical up to 88%
- Rise time: Less than 20ms
- Hold-up Time: 17ms minimum: at 115V/60Hz (80% Load)
- **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):140x150x86mm / 5.5x5.9x3.4inch

*+3,3V & +5V total output not exceed 160W.

When +5V is loaded to 25A, then +3.3V maximum load is 10.6A When +3.3V is loaded to 25A, then +5V maximum load is 15.5A

Sparkle Power Inc. Los Angeles Office

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