

# **FSP600-50ERN**

(80PLUS Silver, RoHS Compliant)

600 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 9A @ 115Vac, 4.5A @ 230Vac

Inrush Current: No damage.

#### **Output Characteristics**

	MINIMUM LOAD	NORMAL LOAD	MAXIMUM LOAD	LOAD REG.	LINE REG.	RIPPLE & NOISE
+3.3V	0.2A	10A	24/3A	±5%	±1%	50mV P-P
+5V	1A	10A	10/24A	±5%	±1%	50mV P-P
+12V	0.05A	22A	46A	±5%	±1%	120mV P-P
-12V	0A	0.25A	0.3A	±10%	±2%	200mV P-P
+5Vsb	0A	1A	3A	±5%	±1%	50mV P-P

+5Vsb peak current is 3.5A(less then 0.5S).

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

### Sparkle Power Inc.

#### Main Office

1000 Rock Avenue San Jose, CA 95131 TEL: 408-519-8888 FAX: 408-519-9999

E-MAIL: <u>info@sparklepower.com</u>





## **Specification**

- Temperature Range: Operating:  $+0^{\circ}\text{C} \sim +40^{\circ}\text{C}$  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<sub>AC</sub> 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 130W. When +5V is loaded to 24A, then +3.3V maximum load is 3A When +3.3V is loaded to 24A, then +5V maximum load is 10A

> Sparkle Power Inc. Los Angeles Office 17071 Green Drive

City of Industry, CA 91745 TEL: 626-839-7180 FAX: 626-839-3395