



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

**SPI250EP**  
**(80PLUS, RoHS Compliant)**  
**250 Watts ATX+12V Switching Power Supply**

**Features**

- Complied with ATX12V 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, CSA C22.2 NO. 60950-1, TUV EN60950-1, NEMKO EN60950-1+CB report, FCC, EMC

**Input Characteristics**

**Input Range:** 100 ~ 264Vac , Full Range Input  
**Frequency:** 47 ~ 63Hz  
**Input Current:** Max 4A @ 115Vac, 2A @ 230Vac  
**Inrush Current:** No damage

**Output Characteristics**

Output Voltage	Minimum Load	Normal Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.5A	7.0A	14A	± 5%	± 1%	50mV P-P
+5V	0.3A	6.0A	12A	± 5%	± 1%	50mV P-P
+12V1	1.0A	4.0A	8A	± 5%	± 1%	120mV P-P
+12V2	1.0A	6.5A	13A	± 5%	± 1%	120mV P-P
-12V	0.0A	0.15A	0.3A	± 10%	± 1%	120mV P-P
+5Vsb	0.0A	1.25A	2.5A	± 5%	± 1%	50mV P-P

\*+3.3V and +5V total output not exceed 106W. When +3.3V is load to 14A, the +5V maximum load is 12A.  
 \*+12V1&+12V2 total output not exceed 204W.  
 \* Total output for this subject power supply is 250W

**Sparkle Power Inc.**  
**Main Office**  
 1000 Rock Avenue  
 San Jose, CA 95131  
 TEL: 408-519-8888  
 FAX: 408-519-9999  
 E-MAIL: [info@sparklepower.com](mailto:info@sparklepower.com)

**Sparkle Power Inc.**  
**Los Angeles Office**  
 17071 Green Drive  
 City of Industry, CA 91745  
 TEL: 626-839-7180  
 FAX: 626-839-3395



**Specification**

- **Temperature Range:** Operating: 0°C ~ +45°C , Full load at 25°C ; De-rate 1.5W/°C ; storage & shipping: -20°C ~ +65°C
- **Humidity:** 90% on operating, 95% on storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 1 second
- **Efficiency:** 80% minimum
- **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 (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