



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

## **SPI5102UA**

**(RoHS Compliant)**

**510 Watts ATX12V/ EPS12V 2U Switching Power Supply**

### **Features**

- Complied with ATX12V/EPS12V 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 : UL,CSA22.2 NO or CUL 60950-1, TUV or VDE, EMC,FCC ,CE, CB report.

### **Input Characteristics**

**Input Range:** 90 ~ 265Vac , Full Range Input

**Frequency:** 47 ~ 63Hz

**Input Current:** Max 10A @ 115Vac, 5A @ 230Vac

**Inrush Current:** No Damage

### **Output Characteristics**

| Output Voltage | Minimum Load | Normal Load | Maximum Load | Load Reg. | Ripple & Noise |
|----------------|--------------|-------------|--------------|-----------|----------------|
| +3.3V          | 0.8A         | 12A         | 24A          | ± 5%-4%   | 50mV P-P       |
| +5V            | 0.5A         | 12.5A       | 25A          | ± 5%-4%   | 50mV P-P       |
| +12V1          | 0.0A         | 9A          | 18A          | ± 5%-5%   | 120mV P-P      |
| +12V2          | 1A           | 9A          | 18A          | ± 5%-5%   | 120mV P-P      |
| -12V           | 0.0A         | 0.25A       | 0.5A         | ± 9%-5%   | 120mV P-P      |
| +5Vsb          | 0.1A         | 1.25A       | 2.5A         | ± 5%-4%   | 50mV P-P       |

\*+3.3V and +5V total output not exceed 150W

\*+12V1 and +12V2 total output not exceed 32A

\* Total output for this subject power supply is 510W

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### **Specification**

- **Temperature Range:** Operating: 0°C ~ +50°C on full load; De-rate 3W/°C from 40°C to 50°C; storage & shipping: 20°C ~ +80°C
- **Humidity:** 5%- 85% on operating, 5%- 95% on storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 1 second
- **Efficiency:** 70% at minimum measured at nominal AC main voltage and frequency with maximum load on all output
- **Rise time:** Less than 50ms
- **Hold-up Time:** 18 ms 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):** 220x100x70mm / 8.7x3.9x 2.7 inch

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