Sparkle Power Inc.

A Leading Power Supply Manufacturer
Web site: www.sparklepower.com

FSP500-501UP
(80PLUS Gold, RoHS Compliant)
**500 Watts ATX 12V, 1U , PM Bus,
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

- 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/CUL60950-1 2nd TUV EN60950-1 2nd, CB 60950-1 2nd , FCC, EMC

Input Characteristics

Input Range: 90 ~ 264Vac, Full Range Input
Frequency: 47 ~ 63Hz
Input Current: Max   8A @ 115Vac, 4.0A @ 230Vac
Inrush Current: No Damage

Specification

- **Temperature Range:** Operating: 0°C ~ +50°C on full load; storage & shipping: -20°C ~ +80°C

- Humidity: 85% on operating, 95% on storage

- **Dielectric Withstand:** Primary frame ground 1800V AC for 2 second

- **Efficiency:** Typical > 90%

- **Rise time:** Less than 20ms

- **Hold-up Time:** 16 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): 250x100x40.5mm / 9.84x3.9x 1.6 inch

Output Characteristics

Output Voltage	Minimum Load	Normal Load	Maximum Load	Load Reg.	Ripple & Noise
+3.3V	0.1A	10A	20A	± 5%	50mV P-P
+5V	0.1A	10A	20A	± 5%	50mV P-P
+12V	1A	8A	40A	± 5%	120mV P-P
-12V	0A	0.25A	0.5A	± 10%	120mV P-P
+5Vsb	0A	1.75A	3.5A	± 5%	50mV P-P

*+3.3V and +5V total output not exceed 130W
* Total output for this subject power supply is 500W

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