



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

SPI500MP

(RoHS Compliant)

500 Watts ATX12V/EPS12V Medical Grade Power

Features

- Complied with ATX12V/EPS 12V 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 18 subpart C, 120Vac operation, and EN60601-1-2, EN55011 at 230Vac operation
- Approved by UL,CUL 60601, VDE ,NEMKO (CB REPORT), FCC, EMC,CE

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 | 0.5A | 15A | 30A | ± 5% | 50mV P-P |
| +5V | 0.3A | 15A | 30A | ± 5% | 50mV P-P |
| +12V1 | 1.0A | 8.5A | 17A | ± 5% | 120mV P-P |
| +12V2 | 1.0A | 8.5A | 17A | ± 5% | 120mV P-P |
| -12V | 0.0A | 0.4A | 0.8A | ± 10% | 120mV P-P |
| +5Vsb | 0.0A | 1.0A | 2.0A | ± 5% | 50mV P-P |
| -5V | 0.0A | 0.15A | 0.3A | ±10% | 100mV P-P |

*+3.3V and +5V total output not exceed 200W.
 * Total output for this subject power supply is500W



Specification

- **Temperature Range:** Operating: 0°C ~ +50°C , Full load at 25°C ; storage & shipping: -20°C ~ +80°C
- **Humidity:** 85% on operating,95% on storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 1 second
- **Efficiency:** 66% minimum
- **Rise time:** Less than 20ms
- **Hold-up Time:**20ms 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 0.3mA at 264Vac,63Hz
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 140x150x86mm / 5.5x5.9x3.4inch

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