



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

SPI5002UC
(80PLUS, RoHS Compliant)
500 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
- 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 ~ 264Vac, Full Range Input
Frequency: 47 ~ 63Hz
Input Current: Max 10A @ 115Vac, 5.0A @ 230Vac
Inrush Current: No Damage

Output Characteristics

| Output Voltage | Minimum Load | Normal Load | Maximum Load | Load Reg. | Ripple & Noise |
|----------------|--------------|-------------|--------------|-----------|----------------|
| +3.3V | 0.5A | 12A | 24A | ± 5% | 50mV P-P |
| +5V | 0.5A | 10A | 20A | ± 5% | 50mV P-P |
| +12V1 | 1.0A | 7.5A | 15A | ± 5% | 120mV P-P |
| +12V2 | 1.0A | 7.5A | 15A | ± 5% | 120mV P-P |
| +12V3 | 1.0A | 7.5A | 15A | ± 5% | 120mV P-P |
| -12V | 0.0A | 0.25A | 0.5A | ± 10% | 120mV P-P |
| +5Vsb | 0.0A | 1.25A | 2.5A | ± 5% | 50mV P-P |

*+3.3V and +5V total output not exceed 150W
 * +12V1 and +12V2 , +12V3 total output not exceed 35A
 * Total output for this subject power supply is 500W

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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 1 second
 - **Efficiency:** Typical up to 85%
 - **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):** 240x100x70mm /9.4x3.9x 2.7 inch