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

SPI3001UH

(80PLUS, RoHS Compliant)

300 Watts EPS12V 1U Switching Power Supply



Features

- Complied with ATX 12V and 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/CUL6095-1, TUV EN60950-1, CB,EMC,FCC

Specification

- **Temperature Range:** Operating: 0°C ~ +50°C on full load; storage & shipping: -20°C ~ +80°C
- Humidity: 5-90% on operating, 5-95% on storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 1 second
- **Efficiency:** typical up to **84%**
- **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):** 190x100x40.5mm /7.5x3.9x1.6inch

Input Characteristics

Input Range: 90 ~ 264Vac, Full Range Input
Frequency: 47 ~ 63Hz
Input Current: Max 5A @ 115Vac, 3A@ 230Vac
Inrush Current: No damage.

Output Characteristics

Output Voltage	Minimum Load	Normal Load	Maximum Load	Load Reg.	Ripple & Noise
+3.3V	0.5A	8A	16A	± 5%	50mV P-P
+5V	0.5A	9A	18A	± 5%	50mV P-P
+12V1	1.0A	8A	16A	± 5%	120mV P-P
+12V2	1.0A	8A	16A	± 5%	120mV P-P
-12V	0.0A	0.4A	0.8A	± 10%	120mV P-P
-5V	0.0A	0.15A	0.3A	± 10%	100mV P-P
+5Vsb	0.0A	1.25A	2.5A	± 5%	50mV P-P

*+3.3V and +5V total output not exceed 120W
* Total output for this subject power supply is 300W

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