



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

SUPER400 (SP400PN)

(RoHS Compliant)

400 Watts ATX12V 2.2 Switching Power Supply

Features

- Complied with ATX12V standard
- High efficiency and reliability
- Remote ON/OFF function
- Internal 12V DC fan included
- Super quiet with 12cm big Fan
- 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 B/Sep.2005
- Approved by UL/CUL 60950-1, FCC

Input Characteristics

Input Range: 115 ~ 230Vac (RMS), manual selection

Frequency: 47 ~ 63Hz

Input Current: Max 8.5A (RMS) @ 115Vac, 5A (RMS) @ 230Vac

Inrush Current: No damage.

Output Characteristics

Output Voltage	Minimum Load	Normal Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.5A	10.0A	28.0A	± 5%	± 1%	50mV P-P
+5V	0.3A	7.0A	30.0A	± 5%	± 1%	50mV P-P
+12V1	1.0A	7.0A	18.0A	± 5%	± 1%	120mV P-P
+12V2	1.0A	8.5A	18.0A	± 5%	± 1%	120mV P-P
-12V	0.0A	0.4A	0.5A	± 10%	± 2%	120mV P-P
+5Vsb	0.0A	1.25A	2.5A	± 5%	± 1%	50mV P-P

*+3.3V and +5V total output not exceed 180W

*+3.3V and +5V and +12V1 +12V2 total output not exceed 385W.

* Total output for this subject power supply is 400W

Sparkle Power Inc.

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Specification

- **Temperature Range:** Operating: 0°C ~ +50°C ,Full load at 25°C ; De-rate 2W/°C from 25°C to 50 °C ,storage & shipping: -20°C ~ +65°C
- **Humidity:** 90% on operating,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 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.
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 140x150x86mm / 5.5x6x3.4inch

