



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

SUPER450 (SP450PN)

(RoHS Compliant)

450 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 10A (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	22.0A	± 5%	± 1%	50mV P-P
+5V	0.3A	8.0A	15.0A	± 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	0.1A	0.3A	± 10%	± 2%	120mV P-P
+5Vsb	0.0A	1.0A	2.5A	± 5%	± 1%	50mV P-P

*+3.3V and +5V total output not exceed 145W

*+3.3V and +5V and +12V1 +12V2 total output not exceed 433W.

* Total output for this subject power supply is 450W

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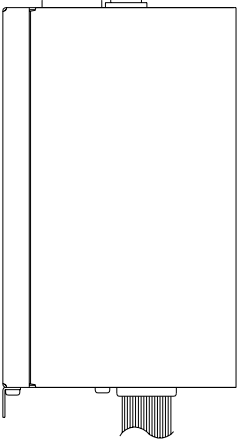
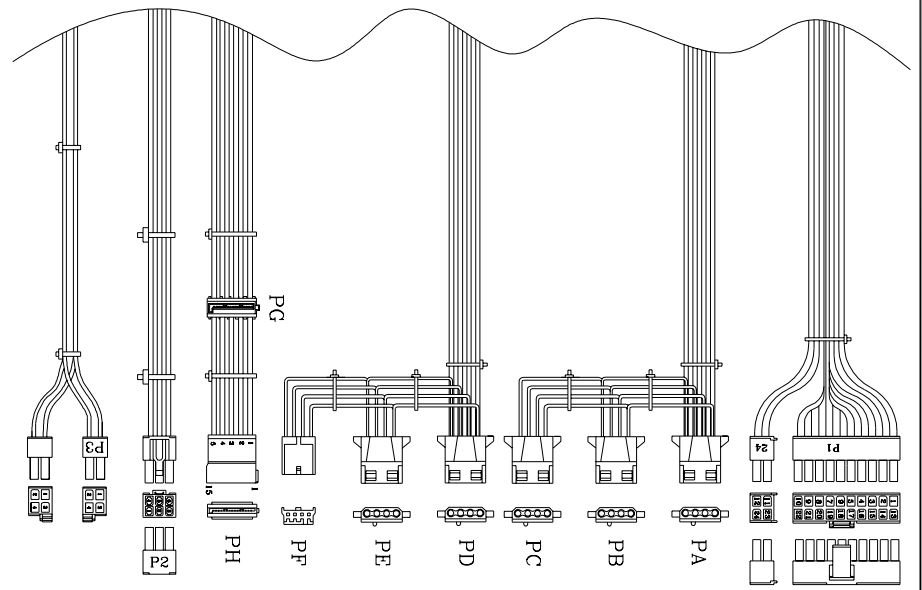
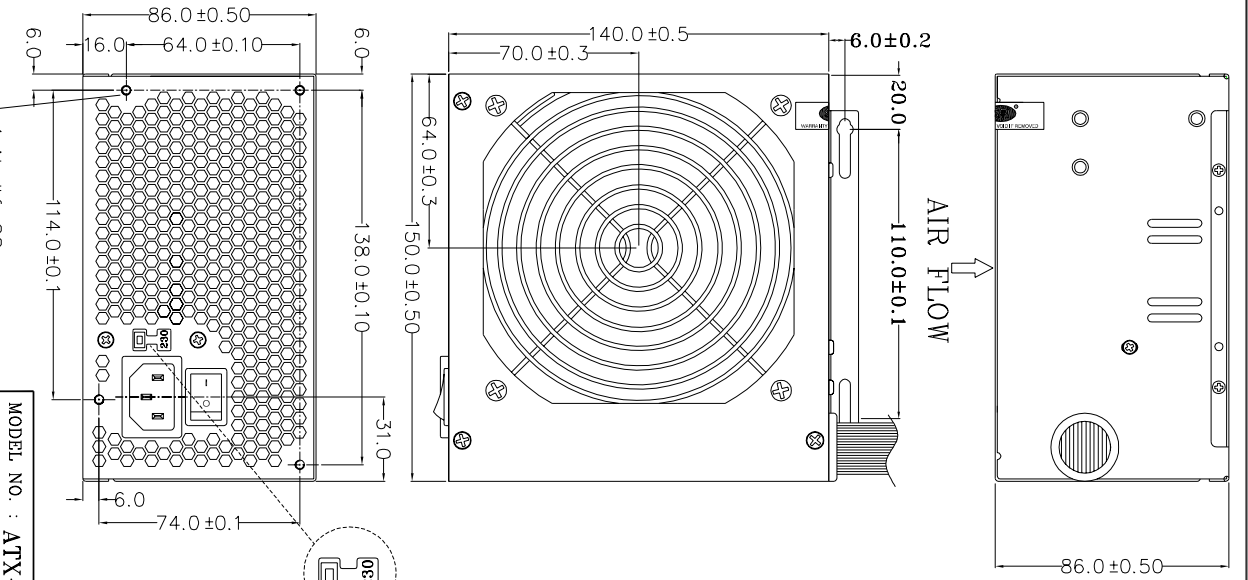
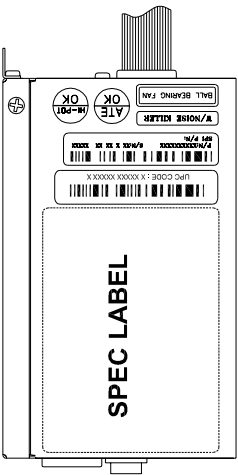
Sparkle Power Inc.
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Specification

- **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:** 12ms 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

REF. ID	PIN NO.	SIGNAL	WIRE COLOR	GAGE	CONNECTOR TYPE	CABLE LENGTH
P1	1	+3.3VDC	ORANGE	18	AMP 4409808-4008	500±30mm
	2	+3.3VDC	ORANGE	18	AMP 4409808-4008	500±30mm
	3	COM	BLACK	18	AMP 4409808-4008	-10
	4	+5VDC	RED	18	AMP 4409808-4008	-10
	5	+5VDC	RED	18	AMP 4409808-4008	-10
	6	PM-OK	GRAY	18	AMP 4409808-4008	-10
	7	COM	BLACK	18	AMP 4409808-4008	-10
	8	+5Vsb	PURPLE	18	AMP 4409808-4008	-10
	9	+12V1	YELLOW	18	AMP 4409808-4008	-10
	10	+12V1	YELLOW	18	AMP 4409808-4008	-10
P1/24	11	+12V1	YELLOW	18	AMP 4409808-4008	-10
	12	+3.3VDC	ORANGE	20	AMP 4409808-4008	-10
	13	+3.3VDC	ORANGE	20	AMP 4409808-4008	-10
	14	+12V1	BROWN	24	AMP 4409808-4008	-10
PA	15	COM	BLACK	18	AMP 4409808-4008	-10
	16	+12V1	YELLOW	18	AMP 4409808-4008	-10
	17	PM-OK	GREEN	24	AMP 4409808-4008	-10
	18	COM	BLACK	18	AMP 4409808-4008	-10
PB	19	COM	BLACK	18	AMP 4409808-4008	-10
	20	COM	BLACK	18	AMP 4409808-4008	-10
PC	21	+5VDC	RED	18	AMP 4409808-4008	-10
	22	+5VDC	RED	18	AMP 4409808-4008	-10
	23	+5VDC	RED	18	AMP 4409808-4008	-10
	24	COM	BLACK	18	AMP 4409808-4008	-10
PD	1	+12V1	YELLOW	18	AMP 4409808-4008	-10
	2	COM	BLACK	18	AMP 4409808-4008	-10
PE	1	+12V1	YELLOW	18	AMP 4409808-4008	-10
	2	COM	BLACK	18	AMP 4409808-4008	-10
PF	1	+12V1	YELLOW	22	AMP 4409808-4008	-10
	2	COM	BLACK	22	AMP 4409808-4008	-10
PG	1	+12V1	YELLOW	18	AMP 4409808-4008	-10
	2	COM	BLACK	18	AMP 4409808-4008	-10
	3	+5V	RED	18	AMP 4409808-4008	-10
	4	COM	BLACK	18	AMP 4409808-4008	-10
PH	1	+12V1	YELLOW	18	AMP 4409808-4008	-10
	2	COM	BLACK	18	AMP 4409808-4008	-10
	3	+5V	RED	18	AMP 4409808-4008	-10
	4	COM	BLACK	18	AMP 4409808-4008	-10
	5	+3.3VDC	ORANGE	18	AMP 4409808-4008	-10
P2	1	+12V1	YELLOW	18	AMP 4409808-4008	-10
	2	+12V1	YELLOW	18	AMP 4409808-4008	-10
	3	+12V1	YELLOW	18	AMP 4409808-4008	-10
	4	COM	BLACK	18	AMP 4409808-4008	-10
	5	COM	BLACK	18	AMP 4409808-4008	-10
	6	COM	BLACK	18	AMP 4409808-4008	-10
P3	1	COM	BLACK	18	AMP 4409808-4008	-10
	2	COM	BLACK	18	AMP 4409808-4008	-10
	3	+12V2	YEL/BLK	18	AMP 4409808-4008	-10
	4	+12V2	YEL/BLK	18	AMP 4409808-4008	-10
	5	+12V2	YEL/BLK	18	AMP 4409808-4008	-10
	6	+12V2	YEL/BLK	18	AMP 4409808-4008	-10



P/N.:PPA4500102
SPI P/N.:R-SP450PN

- NOTE:
1. ALL THE LENGTH OF OUTPUT WIRES EXCLUDE HOUSING.
 2. 產地標籤依業務指示加貼.

UNIT:mm

MODEL NO. : ATX-450PN(S03001)	TITLE: ASSY	SHEET: 1 OF 1	REV:01
R&D(1)	PE	DRAWN	DATE
			MAR13.2007

Mechanical Drawing(外觀/機構圖)表單編號7000P-0111