



**Sparkle Power Inc.**  
 A Leading Power Supply Manufacturer  
 Web site: [www.sparklepower.com](http://www.sparklepower.com)

## **ATX-450PA (RoHS Compliant)** **450 Watts ATX12V-2.2 Switching Power Supply**

### Features

- Complied with ATX12V standard
- High efficiency and reliability, low noise and ripple
- 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)
- 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 UL60950, CSA C22.2 NO. 60950, TUV EN60950 or VDE EN60950, NEMKO EN60950 (CB Report)

### Input Characteristics

**Input Range:** ±10% of 115Vrms/57~63Hz or 230Vrms/47~53Hz,  
 Manual Selection

**Input Current:** 10A (RMS) @115Vac, 5A (RMS) @230Vac

**Inrush Current:** No Damage

### Output Characteristics

Output Voltage	Minimum Load	Normal Load	Maximum Load	Peak Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.5A	17.4A	22.0A		± 5%	± 1%	50mV P-P
+5V	0.3A	11.8A	15.0A		± 5%	± 1%	50mV P-P
+12V1	1.0A	12.6A	18.0A		± 5%	± 1%	100mV P-P
+12V2	1.0A	14.2A	18.0A	19.0A	± 5%	± 1%	100mV P-P
-12V	0.0A	0.3A	0.3A		± 10%	± 2%	100mV P-P
+5Vsb	0.0A	1.0A	2.5A		± 5%	± 1%	50mV P-P

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

\*+12V1 and +12V2 total output not exceed 360W, +3.3V & +5V & 12V1& 12V2 total output not exceed 433W

\*+12V2 Peak loading, Min Voltage during peak is >11.0Vdc

\* Total output for this subject power supply is 450W

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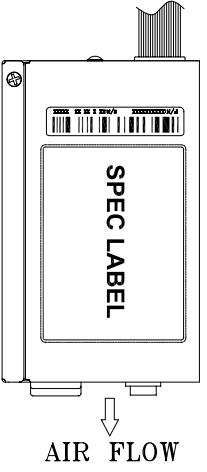
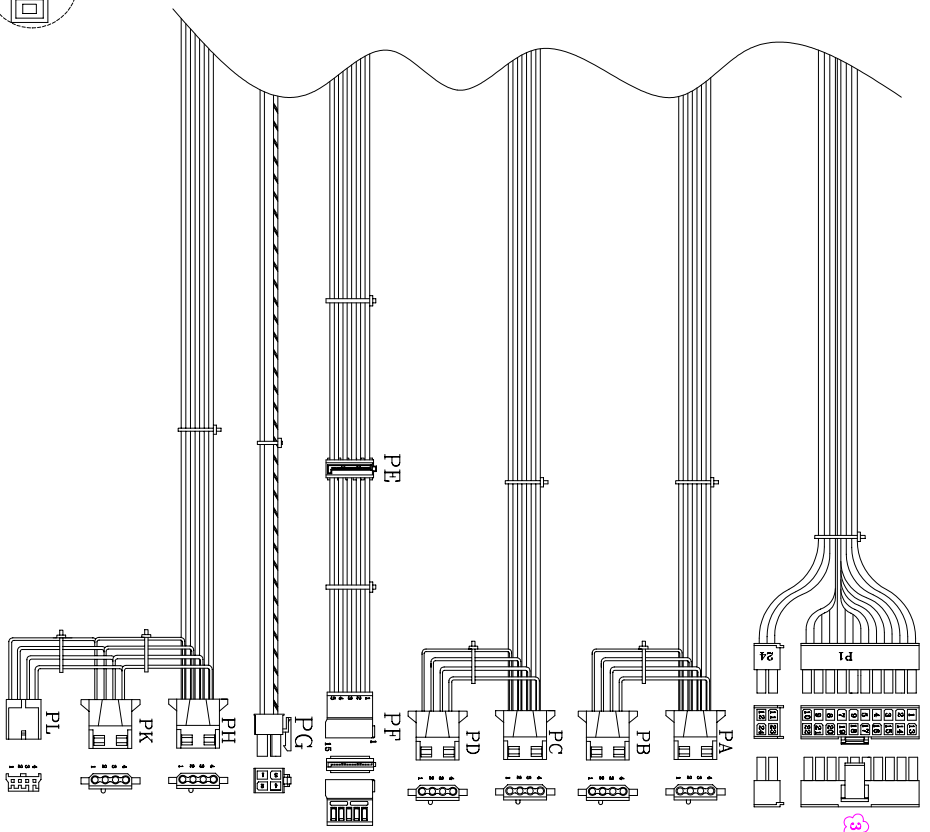
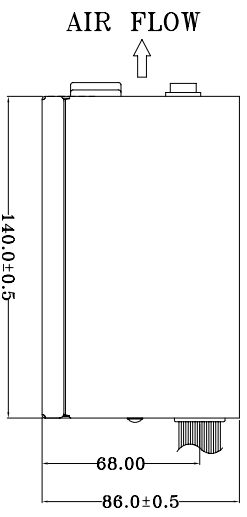
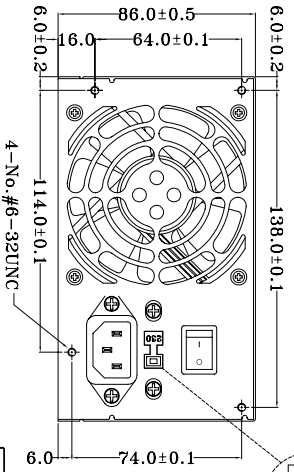
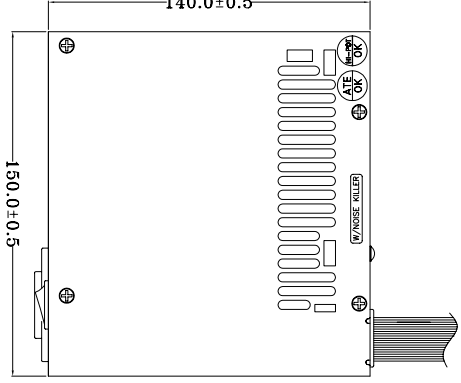
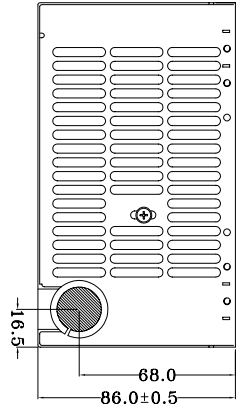


### Specification

- **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:** 5 ~ 95% on operating and storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 1 second
- **Efficiency:** 70% minimum measured at normal AC mains voltage and frequency with full load
- **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/5.5x5.9x3.4inch

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REF. ID.	PN	SIGNAL	WIRE COLOR	Gauge	CONDUCTOR TYPE	CABLE LENGTH
	1	+3.3VDC	ORANGE	18	LIT	300±30mm
	2	+3.3VDC	ORANGE	18	HTF-30W/4M or BOWMAN	-15
	3	COM	BLACK	18		
	4	+5VDC	RED	18		
	5	COM	BLACK	18		
	6	+5VDC	RED	18		
	7	COM	BLACK	18		
	8	PW-OK	GRAY	24		
	9	+5VDC	PURPLE	18		
	10	+12VDC	YELLOW	18		
	11	+12VDC	YELLOW	18		
	12	+3.3VDC	ORANGE	18		
	13	+3.3VDC	BROWN	24		
	14	PS-ON	BLUE	24		
	15	COM	BLACK	18		
	16	PS-ON	GREEN	24		
	17	COM	BLACK	18		
	18	COM	BLACK	18		
	19	COM	BLACK	18		
	20	COM	BLACK	18		
	21	+5VDC	RED	18		
	22	+5VDC	RED	18		
	23	+5VDC	RED	18		
	24	COM	BLACK	18		
PA	1	COM	BLACK	18	AMP	1-480424-0250±30mm
PC	1	+12V	YELLOW	18	or EQIV.	-15
PB	1	+12V	YELLOW	18	AMP	1-480424-0150±15mm
PD	1	+12V	YELLOW	18	or EQIV.	
PE	1	COM	BLACK	18	WST	250±30mm
PF	1	+5V	RED	18	PS-12V2000 or BQIV.	-15
PG	1	+12V	YELLOW	18	15PIN	100±15mm
PH	1	+5V	RED	18	SCREEN ATX	
PK	1	+5V	RED	18	15PIN	100±15mm
PL	1	+12V	YELLOW	18	AMP	171822-4
	2	COM	BLACK	22	or EQIV.	150±15mm
	3	COM	BLACK	22		
	4	+5V	RED	22		



NOTE:  
1. ALL THE LENGTH OF OUTPUT WIRES EXCLUDE HOUSING.  
2. 產地轉廠作業務指示加貼。

UNIT:mm

MODEL NO: ATX-450PA	PE	TITLE: ASSY	DATE
APPROVE	PE	DRAWN	JAN.10.2006
INTERIOR COUNTERSIGN:			

P/N.:9PX4500300

SHEET: 1 OF 1 REV:03

表單編號:7000P-0111