



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

**SPI-250G ( RoHS Compliant)**  
**250 Watts AT/PS2 Switching Power Supply**

**Features**

- Complied with AT standard
- High efficiency and reliability
- Internal 12V DC fan included
- Low noise and ripple
- Complies with FCC part 15 subpart J class B and CISPR 22 class B
- Output over voltage, short circuit, and over current protection
- 100% Hi-pot, ATE, and burn-in tested
- Re-settable power shut down
- Approved by UL60950-1, CSA C22.2 NO. 60950-1

**Input Characteristics**

**Input Range:** 90 ~ 132/180~264Vac (RMS), Manual Select  
**Frequency:** 47 ~ 63Hz  
**Input Current:** 7A (RMS) @115Vac, 4A (RMS) @230Vac  
**Inrush Current:** 40A Max @132Vac cold start

**Output Characteristics**

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+5V	3A	26A	± 5%	± 1%	50mV P-P
+12V	1A	9A	± 5%	± 1%	120mV P-P
-5V	0A	0.5A	± 10%	± 2%	150mV P-P
-12V	0A	0.5A	± 10%	± 2%	150mV P-P

\* This subject power supply is 250W



**Specification**

- **Temperature Range:** Operating: 0°C ~ +50°C on full load; storage & shipping: -20°C ~ +65°C
- **Humidity:** 90% on operating and 95% storage
- **Dielectric Withstand:** Input to frame ground 1800 VAC for 1 second
- **Efficiency:** 65% at minimum measured at nominal AC main voltage and frequency with maximum load on all outputs
- **Rise time:** Less than 100mS on all Outputs
- **Hold-up Time:** 16.6ms minimum at nominal input voltage
- **Power Good Signal:** Power on delay time 100 ~ 500ms, off delay 1ms minimum (TTL and CMOS compatible)
- **MTBF:** 50,000 hours on maximum load at +40°C
- **Dimensions (LxWxH):** 140x150x86mm/5.5x5.9x3.4in

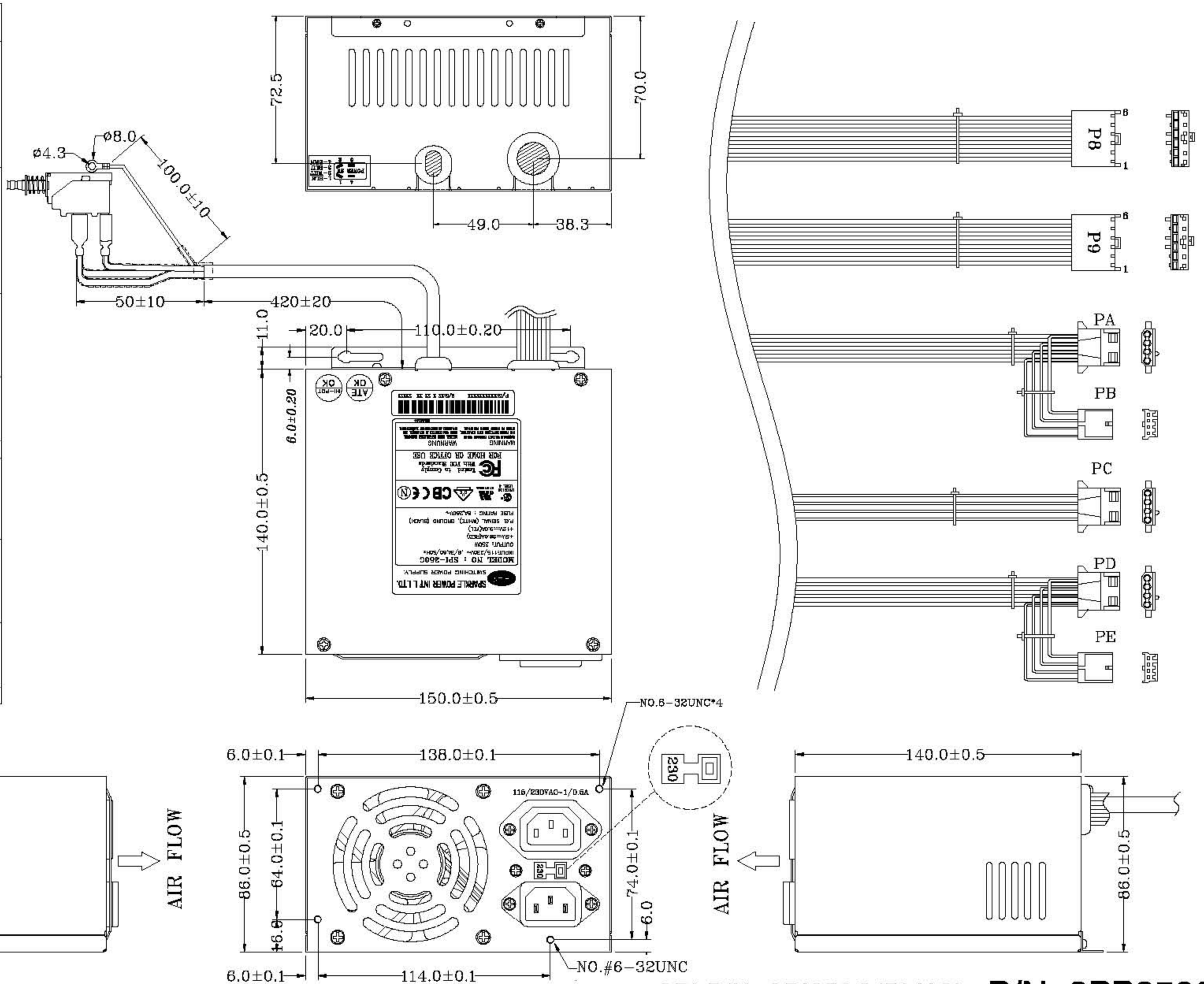
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REF.ID.	PIN NO.	SIGNAL	WIRE COLOR	GAUGE	CONNECTOR TYPE	CABLE LENGTH
P8	1	COM	BLACK	18	MOLEX 41695 or EQIV.	370 +20 +10 mm
	2	COM	BLACK	18		
	3	-12VDC	BROWN	18		
	4	+12VDC	YELLOW	18		
	5	+5VDC	RED	18		
	6	P.G.	WHITE	18		
P9	1	+5VDC	RED	18	MOLEX 41695 or EQIV.	370 +20 +10 mm
	2	+5VDC	RED	18		
	3	+5VDC	RED	18		
	4	-5VDC	BLUE	18		
	5	COM	BLACK	18		
	6	COM	BLACK	18		
PA	1	+12V	YELLOW	18	AMP 1-480424-0 or EQIV.	350 +20 +10 mm
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	+5V	RED	18		
PB	1	+12V	YELLOW	22	AMP 171822-4 or EQIV.	150 ±10mm
	2	COM	BLACK	22		
	3	COM	BLACK	22		
	4	+5V	RED	22		
PC	1	+12V	YELLOW	18	AMP 1-480424-0 or EQIV.	350 +20 +10 mm
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	+5V	RED	18		
PD	1	+12V	YELLOW	18	AMP 1-480424-0 or EQIV.	350 +20 +10 mm
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	+5V	RED	18		
PE	1	+12V	YELLOW	22	AMP 171822-4 or EQIV.	150 ±10mm
	2	COM	BLACK	22		
	3	COM	BLACK	22		
	4	+5V	RED	22		



NOTE :  
1. ALL THE LENGTH OF  
OUTPUT WIRES EXCLUDE HOUSING.

UNIT:mm

SPI P/N: SPI250G(PLUG) P/N.:9PP2500114

MODEL NO. :SPI-250G1		TITLE: ASSY		SHEET: 1 OF 1 REV:03	
R&D	PE	DRAWN	DATE		
			JAN.20.2005		
INTERIOR COUNTERSIGN:					