



Sparkle Power Inc.
 A Leading Power Supply Manufacturer
 Web site: 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



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

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 |

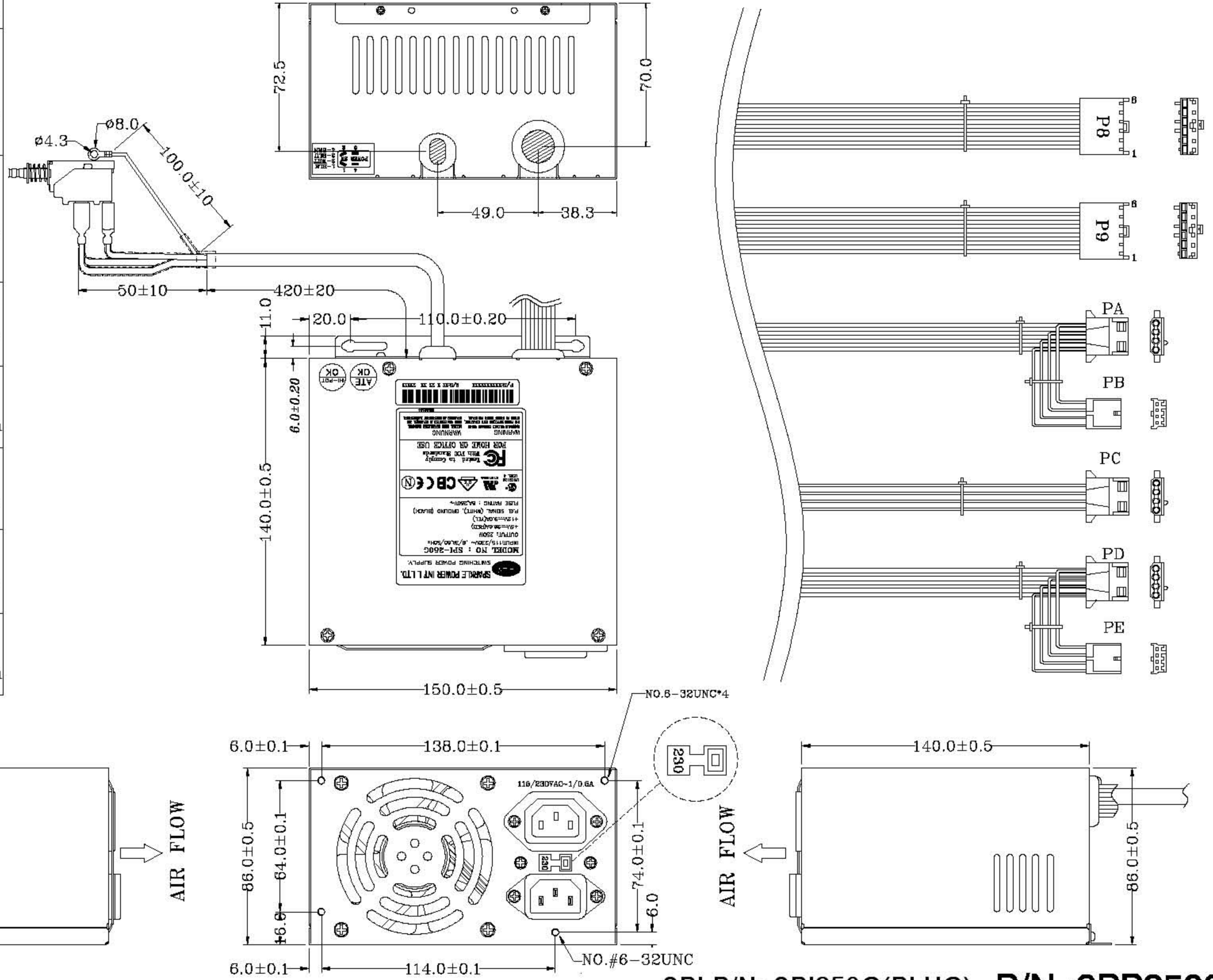
* This subject power supply is 250W

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| REF.ID. | PIN NO. | SIGNAL | WIRE COLOR | GAUGE | CONNECTOR TYPE | CABLE LENGTH |
|---------|---------|--------|------------|-------|--------------------------------|----------------------|
| P8 | 1 | COM | BLACK | 18 | MOLEX 41695 or EQUIV. | 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 EQUIV. | 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 EQUIV. | 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 EQUIV. | 150 ±10mm |
| | 2 | COM | BLACK | 22 | | |
| | 3 | COM | BLACK | 22 | | |
| | 4 | +5V | RED | 22 | | |
| PC | 1 | +12V | YELLOW | 18 | AMP 1-480424-0 or EQUIV. | 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 EQUIV. | 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 EQUIV. | 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

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