



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

**SPI-300G ( RoHS Compliant)**  
**300 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:** 6A (RMS) @115Vac, 3A (RMS) @230Vac

**Inrush Current:** 55A Max @132Vac cold start



**Specification**

- **Temperature Range:** Operating: 0°C ~ +40°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           | 30A          | ± 5%      | ± 1%      | 50mV P-P       |
| +12V           | 1A           | 12A          | ± 5%      | ± 1%      | 120mV P-P      |
| -5V            | 0A           | 0.5A         | ± 10%     | ± 2%      | 150mV P-P      |
| -12V           | 0A           | 0.5A         | ± 10%     | ± 2%      | 150mV P-P      |

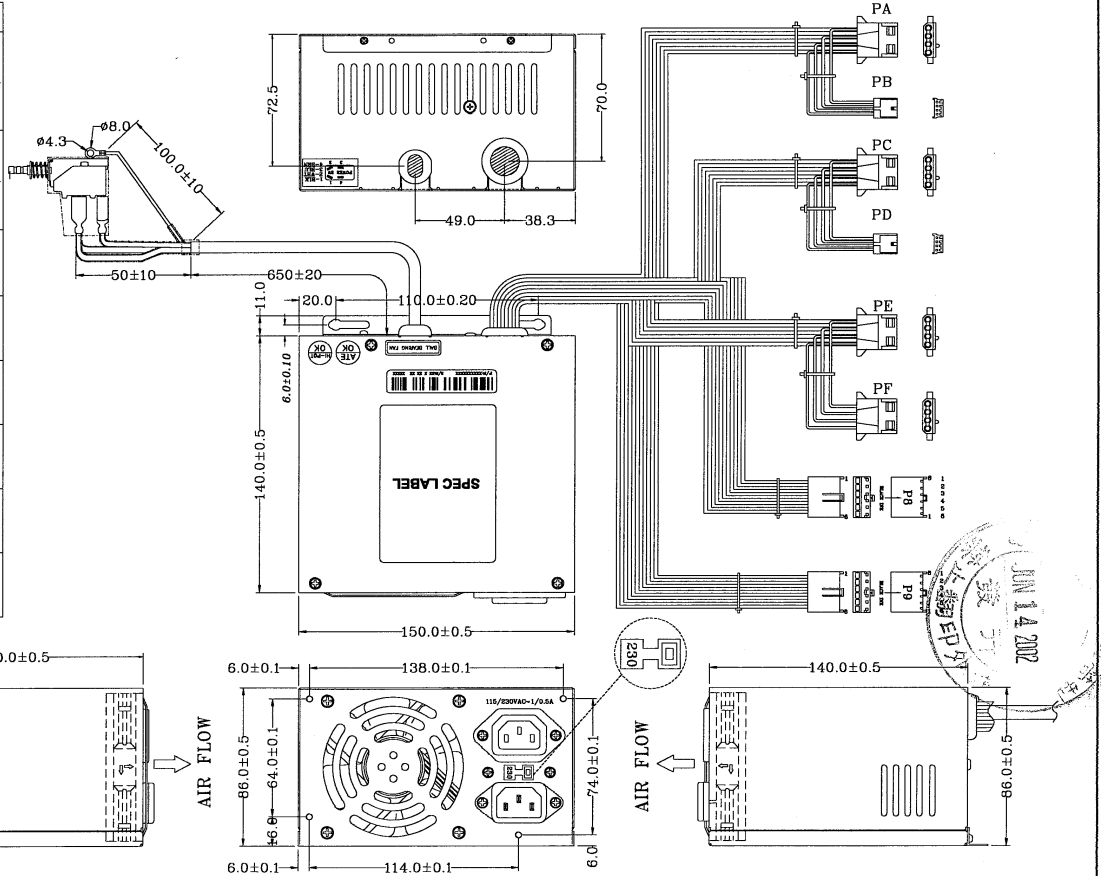
\* This subject power supply is 300W

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| REF. ID. | PIN NO. | SIGNAL | WIRE COLOR | GAUGE | CONNECTOR TYPE           | CABLE LENGTH |
|----------|---------|--------|------------|-------|--------------------------|--------------|
| P8       | 1       | COM    | BLACK      | 18    | MOLEX 90331 or EQUIV.    | 460±15mm     |
|          | 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 90331 or EQUIV.    | 460±15mm     |
|          | 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. | 430±15mm     |
|          | 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. | 430±15mm     |
|          | 2       | COM    | BLACK      | 18    |                          |              |
|          | 3       | COM    | BLACK      | 18    |                          |              |
|          | 4       | +5V    | RED        | 18    |                          |              |
| PD       | 1       | +12V   | YELLOW     | 22    | AMP 171822-4 or EQUIV.   | 150±10mm     |
|          | 2       | COM    | BLACK      | 22    |                          |              |
|          | 3       | COM    | BLACK      | 22    |                          |              |
|          | 4       | +5V    | RED        | 22    |                          |              |
| PE       | 1       | +12V   | YELLOW     | 18    | AMP 1-480424-0 or EQUIV. | 430±15mm     |
|          | 2       | COM    | BLACK      | 18    |                          |              |
|          | 3       | COM    | BLACK      | 18    |                          |              |
|          | 4       | +5V    | RED        | 18    |                          |              |
| PF       | 1       | +12V   | YELLOW     | 18    | AMP 1-480424-0 or EQUIV. | 150±10mm     |
|          | 2       | COM    | BLACK      | 18    |                          |              |
|          | 3       | COM    | BLACK      | 18    |                          |              |
|          | 4       | +5V    | RED        | 18    |                          |              |



**NOTE:**

- ALL THE LENGTH OF OUTPUT WIRES EXCLUDE HOUSING.

② 增加S/N. BAR CODE 及删除S/N.&DATE CODE LABEL

UNIT:mm

SPI P/N:SPI300G-B(PLUG) P/N.: 9PP3000115

|                            |  |             |  |               |  |             |  |
|----------------------------|--|-------------|--|---------------|--|-------------|--|
| MODEL No. : SPI-300G(S032) |  | TITLE: ASSY |  | SHEET: 1 OF 1 |  | REV:02      |  |
| R&D                        |  | PE          |  | DRAWN         |  | DATE        |  |
| 陳炳旭                        |  | 黃銀彪 5/15/02 |  | 陳雅慧           |  | MAY.23.2002 |  |
| INTERIOR COUNTERSIGN:      |  | 顧俊宏         |  |               |  | Amy         |  |