

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

# **SPI600ACAG** (80PLUS Gold, RoHS Compliant) 600 Watts ATX12V 2.3 Switching Power Supply Meet 2010 ErP

#### **Features**

- Complied with ATX12V 2.3 standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- High efficiency and reliability
- 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)
- 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 J class B 115Vac operation, and CISPR 22 class B at 230Vac operation
- Approved by CUL/UL60950-1, TUV EN60950-1, CB 60950-1 report, FCC, EMC.

## Input Characteristics

Input Range: 90 ~ 264Vac, Full Range Input Frequency: 47 ~ 63Hz Input Current: Max 6A @ 115Vac, 3A @ 230Vac Inrush Current: No damage.

### **Output Characteristics**

|       | MINIMUM<br>LOAD | NORMAL<br>LOAD | MAXIMUM<br>LOAD | LOAD<br>REG. | LINE<br>REG. | RIPPLE & NOISE |
|-------|-----------------|----------------|-----------------|--------------|--------------|----------------|
| +3.3V | 0.1A            | 10A            | 24/6A           | ±5%          | ±1%          | 50mV P-P       |
| +5V   | 0.2A            | 10A            | 12.1/24A        | ±5%          | ±1%          | 50mV P-P       |
| +12V1 | 0.1A            | 8A             | 18A             | ±5%          | ±1%          | 120mV P-P      |
| +12V2 | 0A              | 8A             | 18A             | ±5%          | ±1%          | 120mV P-P      |
| +12V3 | 0A              | 8A             | 18A             | ±5%          | ±1%          | 120mV P-P      |
| +12V4 | 0A              | 8A             | 18A             | ±5%          | ±1%          | 120mV P-P      |
| -12V  | 0A              | 0.25A          | 0.5A            | ±10%         | ±2%          | 200mV P-P      |
| +5Vsb | 0A              | 1.5A           | 3.5A            | ± <b>5%</b>  | ±1%          | 50mV P-P       |

Sparkle Power Inc.

#### Main Office

1000 Rock Avenue San Jose, CA 95131 TEL: 408-519-8888 FAX: 408-519-9999 E-MAIL: <u>info@sparklepower.com</u>





## **Specification**

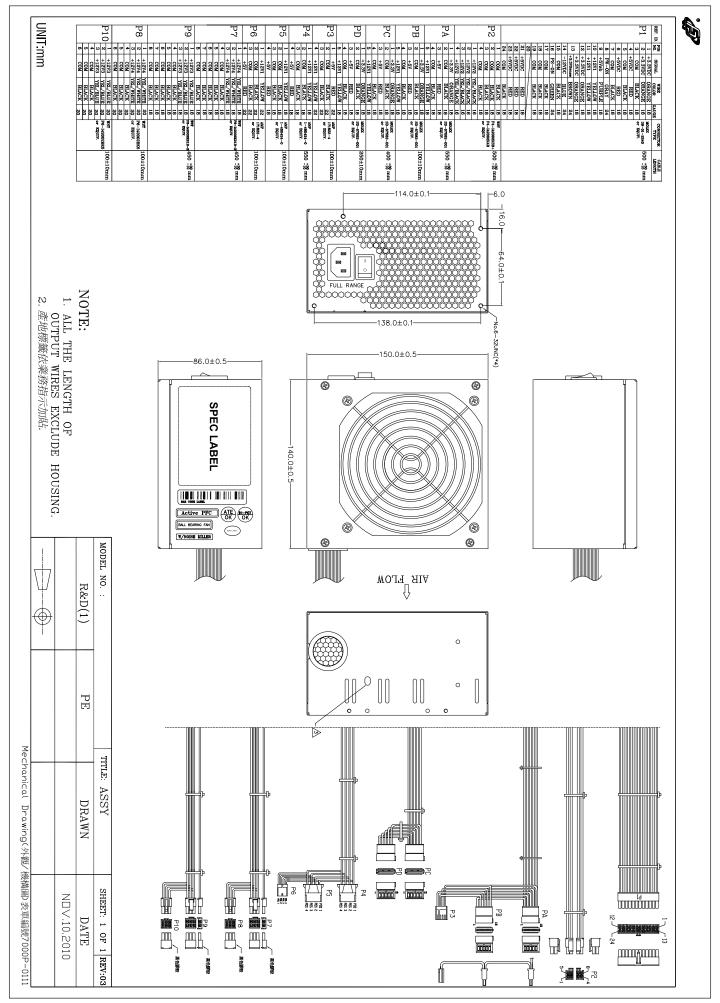
- **Temperature Range:** Operating: +0°C ~ +40°C on full load Storage & Shipping: -40°C ~ +70°C
- Humidity: 5-85% on operating, 5-95% on storage
- Dielectric Withstand: Primary to frame ground 1800V<sub>AC</sub> for 1 second
- Efficiency: 87% minimum, typical up to 90%
- Rise time: Less than 20ms
- Hold-up Time: 17ms 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 at 264Vac, 50Hz
- MTBF: 100,000 hours on maximum load at +25°C
- Dimensions (LxWxH):140x150x85.8mm / 5.5x5.9x3.4inch

- \*+12V1,2,3,4 Peak current is 20A (less than 10mS)
- $+5V_{sb}$  peak current is 4A (less than 0.5S)
- +3.3V & +5V total output does not exceed 140W
- when +5V is loaded to 24A, then +3.3V maximum load is 6A when +3.3V is loaded to 24A, then +5V maximum load is 12.1A
- \*+12V1 & +12V2 & +12V3 & +12V4 total output does not exceed 540W(45A)

Sparkle Power Inc. Los Angeles Office 17071 Green Drive

City of Industry, CA 91745 TEL: 626-839-7180 FAX: 626-839-3395





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