



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



SPI300A8AG

(80PLUS Gold, RoHS Compliant)

**300 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 4A @ 115Vac, 2A @ 230Vac

Inrush Current: No damage.

Output Characteristics

	MINIMUM LOAD	NORMAL LOAD	MAXIMUM LOAD	LOAD REG.	LINE REG.	RIPPLE & NOISE
+3.3V	0.1A	7A	16/3A	±5%	±1%	50mV P-P
+5V	0.2A	7A	7.4/16A	±5%	±1%	50mV P-P
+12V1	0.1A	8A	18A	±5%	±1%	120mV P-P
+12V2	0A	8A	18A	±5%	±1%	120mV P-P
-12V	0A	0.15A	0.3A	±10%	±2%	200mV P-P
+5Vsb	0A	1.5A	3A	±5%	±1%	50mV P-P

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_{AC} for 1 second
- **Efficiency:** 87% minimum, typical up to 90%
- **Rise time:** Less than 20ms
- **Hold-up Time:** 16ms 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, Peak Current is 20A (less than 10mS)

*+5Vsb peak current is 3.5A (less than 0.5S)

*+3.3V & +5V total output does not exceed 90W

when +5V is loaded to 16A, then +3.3V maximum load is 3A

when +3.3V is loaded to 16A, then +5V maximum load is 7.4A

*+12V1 & +12V2 total output does not exceed 288W(24A)

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