



**Sparkle Power Inc.**  
A Leading Power Supply Manufacturer  
Web site: <http://www.sparklepower.com/>



## **SPI600ACHBB**

### **600 Watts EPS12V & ATX12V Switching Power Supply**

#### **Features**

- Complied with EPS12V 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 UL60950, TUV EN60950 or VDE EN60950, NEMKO EN60950 (CB Report), CE

#### **Input Characteristics**

**Input Range:** 90 ~ 265Vac (RMS), Full Range Input

**Frequency:** 47 ~ 63Hz

**Input Current:** 7A (RMS) @115Vac, 3.5A (RMS) @230Vac

**Inrush Current:** No damage, typical 100A at cold start

#### **Output Characteristics**

Output Voltage	Minimum Load	Normal Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.8A	18A	30A	± 5%	± 1%	75mV P-P
+5V	0.5A	15A	30A	± 5%	± 1%	75mV P-P
+12V1	1.0A	9A	18A	± 5%	± 1%	140mV P-P
+12V2	1.0A	9A	18A	± 5%	± 1%	140mV P-P
+12V3	1.0A	9A	18A	± 5%	± 1%	140mV P-P
+12V4	1.0A	9A	18A	± 5%	± 1%	140mV P-P
-12V	0.0A	0.4A	0.8A	± 10%	± 1%	200mV P-P
+5Vsb	0.1A	1.5A	3.0A	± 5%	± 1%	75mV P-P

\* +3.3V and +5V total output not exceed 140W

\* +3.3V & 5V & +12V output power should not exceed 575W

\* Total output for this power supply is 600W

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#### **Specification**

- **Temperature Range:** Operating: 0° ~ 50°C on full load, de-rate 4W/°C from 25° ~ 50°C; storage & shipping: -20° ~ +80°C
- **Humidity:** 5 ~ 95% on operating and storage
- **Dielectric Withstand:** Primary to Frame Ground 1800 VAC for 1sec
- **Efficiency:** up to 85%
- **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
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 140x150x86mm / 5.5x5.9x3.4in