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



85+ GREEN 600 (SPI600ACH5B)

600 Watts EPS12V & ATX12V Switching Power Supply

Features

- Complied with ATX12V and 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 CUL/UL60950-1,NEMKO EN60950-1 (CB Report), CE, EMC,FCC

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

Specification

- **Temperature Range:** Operating: 10° ~ 50°C on full load, de-rate 4W/°C from 25° ~ 50°C; storage & shipping: -20° ~ +80°C
- **Humidity:** 5 ~ 95% RH on operating and storage
- **Dielectric Withstand:** Primary to Frame Ground 1800 VAC for 1sec
- **Efficiency:** average 85%, maximum up to 88%
- **Rise time:** Less than 20ms
- **Hold-up Time:** 25ms 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

Output Voltage	Minimum Load	Normal Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.2A	12A	24A	± 5%	± 1%	75mV P-P
+5V	0.2A	12A	24A	± 5%	± 1%	75mV P-P
+12V1	1A	9A	18A	± 5%	± 1%	140mV P-P
+12V2	1A	9A	18A	± 5%	± 1%	140mV P-P
+12V3	1A	9A	18A	± 5%	± 1%	140mV P-P
+12V4	1A	9A	18A	± 5%	± 1%	140mV P-P
-12V	0A	0.25A	0.5A	± 10%	± 1%	200mV P-P
+5Vsb	0A	1.25A	2.5A	± 5%	± 1%	75mV P-P

* +3.3V and +5V total output not exceed 125W
* Total output power should not exceed 600W

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