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

FSP600-80PSA(SK)

Meet 80 PLUS Bronze, RoHS Compliant

600 Watts ATX 12V Switching Power Supply

Features

- Complied with ATX12V standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- High efficiency and reliability
- Compatible with European Union Directive 2011/65/EU & (EU)2015/863 (Restriction on Hazardous Substances).
- Remote ON/OFF function
- Internal 12V DC fan included
- Noise Killer
- AC input I/O switch is option.
- 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 CB 62368 & 60950-1 2nd , EMC. CUL/UL TUV, FCC,

Input Characteristics

Input Range: 90 ~ 264Vac (RMS), Full Range Input
Frequency: 47 ~ 63Hz
Input Current: Max 8A(RMS) @ 115Vac, 4A(RMS) @ 230Vac
Inrush Current: No damage at cold start

Specification

- **Temperature Range: Operating: 0°C ~ +50°C on full load; storage & shipping: -20°C ~ +80°C**
- **Humidity: 10~90%RH,Non-condending on operating. 95%RH,Non-condending on storage**
- **Dielectric Withstand: Primary frame ground 1800V AC for 2 second**
- **Efficiency: Typical > 85%**
- **Altitude: Applied for tropical Climates and use at altitudes not exceeding 5000M above sea level.**
- **Meet Energy Star 5.0 & ErP : The 5Vsb Standby efficiency is measured with the main outputs off (PS_ON# high state). Standby efficiency should be as shown in below table.**

Load	Efficient
45mA	>=45%
100 mA	>=55%
250 mA	>=65%
>=1A	>=75%

- **Rise time: Less than 20ms**
- **Hold-up Time: 16 ms 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, 63Hz**
- **MTBF:A minimum predicted MTBF (MIL-HDBK-217) of 100,000 hours of continuous** operation at +25°C.
- **Dimensions (LxWxH):** 140x150x86mm / 5.5x5.9x3.4inch

Output Characteristics

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Ripple & Noise
+3.3V	0A	25A	± 5%	50mV P-P
+5V	0A	25A	± 5%	50mV P-P
+12V1	0A	16A	± 5%	120mV P-P
+12V2	0A	16A	± 5%	120mV P-P
+12V3	0A	16A	± 5%	120mV P-P
+12V4	0A	16A	± 5%	120mV P-P
-12V	0A	0.5A	± 10%	120mV P-P
+5Vsb	0.A	4.0A	± 5%	50mV P-P

* +3.3V and +5V total output not exceed 150W
* Maximum combined current for the 12V outputs shall be 48A,
* Total output for this subject power supply is 600W

Sparkle Power Inc.
Main Office
48502 Kato Road.
Fremont CA 94538
TEL: 408-519-8888
FAX: 408-519-9999
E-MAIL: info@sparklepower.com

Sparkle Power Inc.
Los Angeles Office
17071 Green Drive
City of Industry, CA 91745
TEL: 626-839-7180
FAX: 626-839-3395