



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

FSP650-80GLC

(SLI Ready & RoHS Compliant)

650 Watts EPS12V & ATX12V Switching Power Supply

Features

- Complied with EPS12V and ATX12V 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 and CISPR 22 Class B
- Approved by UL 60950, CSA C22.2, TUV or VDE, NEMKO (CB Report), IEC 60950, EN and CE

Input Characteristics

Input Range: 90~264VAC, Full Range Input

Frequency: 47~63Hz

Input Current: 7.5A (RMS) @ 115VAC, 3.6A (RMS) @ 230VAC

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

Output Characteristics

Output Voltage	Minimum Load	Normal Load	Maximum Load	Load Reg.	Line Reg.	Ripple	Ripple & Noise
+3.3V	0.8A	18A	36A	± 5%	± 1%	50mV P-P	100mV P-P
+5V	0.5A	15A	30A	± 5%	± 1%	50mV P-P	100mV P-P
+12V1DC	0A	7.5A	15A	± 5%	± 1%	120mV P-P	200mV P-P
+12V2DC	0A	7.5A	15A	± 5%	± 1%	120mV P-P	200mV P-P
+12V3DC	0.9A	7.5A	15A	± 5%	± 1%	120mV P-P	200mV P-P
+12V4DC	0.1A	7.5A	15A	± 5%	± 1%	120mV P-P	200mV P-P
-12V	0.0A	0.25 A	0.8 A	± 10%	± 1%	120mV P-P	200mV P-P
+5Vsb	0.0A	1.0 A	2.0 A	± 5%	± 1%	50mV P-P	100mV P-P

*+3.3V and +5V total output not exceed 155W

*Total output for this subject power supply is 650W

Sparkle Power Inc.

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Specification

- **Temperature Range:** Operating 0°C ~ +40°C on full load; derate 5W/°C from 40°C to 50°C
Storage & shipping -20°C ~ +80°C
- **Humidity:** 5~95% on operating and storage
- **Dielectric Withstand:** Primary to frame ground 1800V AC for 1 second
- **Efficiency:** 80% min on 230AC/50Hz & 78% min on 115VAC/60Hz at full load
- **Rise Time:** Less than 20ms
- **Hold-up Time:** 17ms minimum at nominal input voltage
- **Power Good Signal:** Power on delay time 100 ms to 500 ms, off delay 1ms minimum (TTL and CMOS compatible)
- **Leakage Current:** Less than 3.5mA at 115VAC/60Hz
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimension (WxHxL):** 150x86x140mm/5.9"x3.4"x5.5" inches