



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

FSP650-802U (Active PFC & RoHS Compliant)
650 Watts, 2U Switching Power Supply

Features

- Complied with ATX, ATX12V and EPS12V standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- High efficiency and reliability
- Remote ON/OFF function
- Internal 12V DC fan included
- Noise Killer (thermal fan speed control function)
- Low noise and ripple
- Complies with FCC part 15 subpart J class B 115Vac operation, and CISPR 22 class B at 230Vac operation
- Output over voltage, short circuit, and over current protection
- 100% Hi-pot, ATE, and burn-in tested
- Re-settable power shut down
- Approved by UL60950, CSA C22.2 NO. 60950, TUV EN60950 or VDE EN60950, NEMKO EN60950 (CB Report), CE

Input Characteristics

Input Range: 95 ~ 265Vac (RMS), Full Range Input
Frequency: 47 ~ 63Hz
Input Current: 8A (RMS) @115Vac, 4A (RMS) @230Vac
Inrush Current: 50A Max @115Vac, 50A Max @230Vac cold start

Output Characteristics

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.5A	30A	± 5%	± 1%	50mV P-P
+5V	0.5A	30A	± 5%	± 1%	50mV P-P
+12V1	0.3A	12.5A	± 5%	± 1%	120mV P-P
+12V2	0.3A	12.5A	± 5%	± 1%	120mV P-P
+12V3	0.5A	14A	± 5%	± 1%	120mV P-P
+12V4	0.3A	8A	± 5%	± 1%	120mV P-P
-5V	0.0A	0.3A	± 10%	± 1%	120mV P-P
-12V	0.0A	0.8A	+9%/-5%	± 2%	120mV P-P
+5Vsb	0.0A	2.0A	± 5%	± 1%	50mV P-P

*+5V and +3.3V total output not exceed 220W
 *+3.3V, +5V, and +12V total output cannot exceed 630W(+12V Outputs shall not exceed 45A)
 * This subject power supply is 650W

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Specification

- **Temperature Range:** Operating: 0°C ~ +50°C on full load; storage & shipping: -20°C ~ +70°C
- **Humidity:** 5 ~ 95% on operating and storage
- **Dielectric Withstand:** Input to frame ground 1800 VAC for 1 second
- **Efficiency:** 70% at minimum measured at nominal AC 115VAC with maximum load on all outputs
- **Rise time:** Less than 70ms
- **Hold-up Time:** 20ms minimum at nominal input voltage
- **Power Good Signal:** Power on delay time 100 ~ 500ms, off delay 1ms minimum (TTL and CMOS compatible)
- **Leakage Current:** Not exceed 3.5mA at 264Vac, 50Hz
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 300x106x82.2mm/11.8x4.2x3.2inch

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