



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

FSP250-72PFL
(80PLUS Bronze, RoHS Compliant)
250 Watts ATX12V 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 2002/95/EC (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 CUL/UL60950-1 2nd TUV EN60950-1 2nd, CB 60950-1 2nd report, FCC, EMC

Specification

- **Temperature Range:** Operating: 0°C ~ +50°C on full load; storage & shipping: -20°C ~ +80°C
- **Humidity:** 5~85% on operating, 5~95% on storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 2 second
- **Efficiency: Typical > 85%**
- **Rise time:** Less than 20ms
- **Hold-up Time:** 13 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:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 140x150x86mm / 5.5x5.9x3.4inch

Input Characteristics

Input Range: 90 ~ 264Vac (RMS), Full Range Input
Frequency: 47 ~ 63Hz
Input Current: Max 4.0A(RMS) @ 115Vac, 2.0A(RMS) @ 230Vac
Inrush Current: No damage at cold start

Output Characteristics

| Output Voltage | Minimum Load | Normal Load | Maximum Load | Load Reg. | Ripple & Noise |
|----------------|--------------|-------------|------------------|-----------|----------------|
| +3.3V | 0.3A | 7A | 14A | ± 5% | 50mV P-P |
| +5V | 0.5A | 7A | 14A | ± 5% | 50mV P-P |
| +12V1 | 0.5A | 8.5A | 17A | ± 5% | 120mV P-P |
| +12V2 | 0.5A | 8.5A | 17A | ± 5% | 120mV P-P |
| -12V | 0A | 0.25A | 0.5A | ± 10% | 120mV P-P |
| +5Vsb | 0.1A | 1.5A | 3.0A (peak 3.5A) | ± 5% | 50mV P-P |
| -5V (option) | 0.0A | 0.15A | 0.3A | ± 10% | 100mV P-P |

*+3.3V and +5V total output not exceed 90W

*-5V is Option, +5Vsb peak <= 10ms.

* Total output for this subject power supply is 250W

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