



Sparkle Power Inc.

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



FSP350-60THA

350 Watts ATX12V 2.0 Switching Power Supply

Features

- Complied with ATX12V 2.0 standard
- 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 and CISPR 22 Class B
- Output over voltage, short circuit, and over current protection
- 100% Hi-pot, ATE, and burn-in tested
- Re-settable power shut down
- Approved by UL 60950, CSA C22.2 Level 3, TUV EN60950, NEMKO (CB Report)

Input Characteristics

Input Range: +/-10% of 115Vrms or 230Vrms, Manual selection

Frequency: 47~63Hz

Input Current: 10A (RMS) @115V AC, 5A (RMS) @230V AC

Inrush Current: 70A max cold start, 100A warm measured at 264rms/50Hz

Output Characteristics

| Output Voltage | Minimum Load | Maximum Load | Load Reg. | Line Reg. | Ripple & Noise |
|----------------|--------------|--------------|-----------|-----------|----------------|
| +3.3V | 0.5A | 7.5/22A | ± 5% | ± 1% | 50mV P-P |
| +5V | 1.0A | 21/11.4A | ± 5% | ± 1% | 50mV P-P |
| +12V1 | 1.0A | 10.0A | ± 5% | ± 1% | 120mV P-P |
| +12V2 | 1.0A | 15.0A | ± 5% | ± 1% | 120mV P-P |
| -12V | 0.0A | 0.8A | ± 10% | ± 2% | 120mV P-P |
| +5Vsb | 0.0A | 2.0 A | ± 5% | ± 1% | 50mV P-P |

*+5V and +3.3V total output not exceed 130W

*When +3.3V is load on 22A, the +5V maximum load is 11.4A

*When +3.3V is load on 7.5A, the +5V maximum load is 21A

*+3.3V, +5V, +12V1, and +12V2 total output not exceed 335W

Specification

- **Temperature Range:** Operating 0° C ~ +25° C on full load; De-rate 2W/C from +50° C to +25° C; storage & shipping -20° C ~ +65° C
- **Humidity:** 90% on operating and 95% on storage
- **Dielectric Withstand:** Input to frame ground 1800V AC for 1 second
- **Efficiency:** 70% at minimum measured at nominal AC main voltage and frequency with maximum load on all output
- **Rise Time:** Less than 20ms on all output
- **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:** Not exceed 3.5mA
- **MTBF:** 100,000 hours on maximum load at +25° C degree
- **Dimension (WxHxL):** 150x86x140mm/6"x3.4"x5.5" inches

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