



Sparkle Power Inc.

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



FSP400-60THA

400 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: $\pm 10\%$ of 115/230V AC, Manual selection

Frequency: 47~63Hz

Input Current 10A/115Vac(rms), 5A/230Vac(rms)

Inrush Current: 90A max cold start, 120A warm measured at 264rms/50Hz

Specification

- **Operating Temperature Range:** 0°C ~ 50°C, 25°C On 400W, 50°C On 350W, De-rate 2W/°C.
- **Storage & Shipping Temperature Range:** -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% Min at 115/230AC On Full load
- **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

Output Characteristics

Output Voltage	Min Load	Normal Load	Max Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.5A	15A	30A	$\pm 5\%$	$\pm 1\%$	50mV P-P
+5V	1.0A	14A	28A	$\pm 5\%$	$\pm 1\%$	50mV P-P
+12V1	1.0A	7A	14.0A	$\pm 5\%$	$\pm 1\%$	120mV P-P
+12V2	1.0A	8.5A	15.0A	$\pm 5\%$	$\pm 1\%$	120mV P-P
-12V	0.0A	0.4A	0.5A	$\pm 10\%$	$\pm 2\%$	120mV P-P
+5Vsb	0.0A	1A	2.0 A	$\pm 5\%$	$\pm 1\%$	50mV P-P

*+5V and +3.3V total output not exceed 150W

*When +3.3V is load on 30A, the +5V maximum load is 10.0A

*When +3.3V is load on 3.0A, the +5V maximum load is 28A

*+3.3V, +5V, +12V1, and +12V2 total output not exceed 385W

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