



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



FSP400-60GMN

(RoHS Compliant)

400 Watts ATX12V 2.3 Switching Power Supply

Features

- Complied with ATX12V 2.3 standard
- 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 115Vac operation, and CISPR 22 class B at 230Vac operation
- Approved by CUL/UL60950-1, TUV EN60950-1, CB 60950-1 report, FCC, EMC.

Input Characteristics

Input Range: 99 ~ 265Vac, Full Range Input

Frequency: 47 ~ 63Hz

Input Current: Max 6A @ 115Vac, 3A @ 230Vac

Inrush Current: No damage.

Output Characteristics

Output	MINIMUM LOAD	NORMAL LOAD	MAXIMUM LOAD	PEAK LOAD	LOAD REG.	LINE REG.	Ripple & Noise
+3.3V	0.1A	12A	24A		±5%	±1%	70mV P-P
+5V	0.2A	7.5A	15A		±5%	±1%	70mV P-P
+12V1	0.1A	8.5A	17A		±5%	±1%	140mV P-P
+12V2	0.5A	7A	14A	18A	±5%	±1%	140mV P-P
-12V	0A	0.25A	0.5A		±10%	±1%	140mV P-P
+5VSB	0A	1.25A	2.5A	3A	±5%	±1%	70mV P-P

◆ The range of +5VSB voltage is 5.1V±5%

Specification

- **Temperature Range:** Operating: +10°C ~ +40°C on full load
Storage & Shipping: -20°C ~ +80°C
- **Humidity:** 5-85% on operating, 5-95% on storage
- **Dielectric Withstand:** Primary to frame ground 1800V_{AC} for 1 second
- **Efficiency:** 73% minimum, typical up to 75%
- **Rise time:** Less than 20ms
- **Hold-up Time:** 10ms 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, 50Hz
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 140x150x85.8mm / 5.5x5.9x3.4inch

*+3.3V & +5V total output does not exceed 120W

*Maximum combined current for the +12V outputs shall be 29A

*+12V2 peak current is 18A (less than 10ms), minimum voltage during peak is >11.0Vdc.

*+5Vsb peak current is 3A (less than 500ms), minimum voltage during peak is >4.5Vdc.

Sparkle Power Inc.

Main Office

1000 Rock Avenue
San Jose, CA 95131
TEL: 408-519-8888
FAX: 408-519-9999
E-MAIL: info@sparklepower.com

Sparkle Power Inc.

Los Angeles Office

17071 Green Drive
City of Industry, CA 91745
TEL: 626-839-7180
FAX: 626-839-3395