

Sparkle Power Inc. A Leading Power Supply Manufacturer Web site: <u>www.sparklepower.com</u>

FSP400-60FGGBA (80PLUS Gold, RoHS Compliant) 400 Watts Flex ATX Switching Power Supply

Features

- Complied with Flex ATX standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- High efficiency and reliability
- Compatible with European Union Directive 2011/65/EU (Restriction on Hazardous Substances).
- Remote ON/OFF function
- Internal 12V DC fan included
- 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 : UL/CUL60950-1 2nd TUV EN60950-1 2nd, CB 60950-1 2nd, FCC, EMC

Input Characteristics

Input Range: 90 ~ 264Vac, Full Range Input Frequency: 47 ~ 63Hz Input Current: Max 6.0A @ 115Vac, 3.0A @ 230Vac Inrush Current: No Damage

Output Characteristics





Specification

- Temperature Range: Operating: 0°C ~ +50°C on full load
 Storage : -20°C ~ +80°C
- Humidity: Operating : 85% RH, Non-condensing,

Storage : 95% RH, Non-condensing

- **Dielectric Withstand:** Primary frame ground 1800V AC for 2 second
- Efficiency: Typical > 90%
- Altitude: operating up to 5K Meter.
- Meet ErP: 5Vsb power is less than 0.5W input at power off mode (PS_ON input at high state) which is comply with EuP Lot 6, year 2013 requirement.
- **Rise time:** Less than 20ms
- Hold-up Time: 17 ms minimum at 230Vac input.
- **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): 150x81.5x40.5mm

/ 5.9x3.2x1.6 inch

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Ripple & Noise
+3.3V	0.1A	14A	± 5%	50mV P-P
+5V	0.1A	16A	± 5%	50mV P-P
+12V1	0.1A	18A	± 5%	120mV P-P
+12V2	0.2A	18A	± 5%	120mV P-P
-12V	0A	0.5A	$\pm 10\%$	120mV P-P
+5Vsb	0A	3.0A	$\pm 5\%$	50mV P-P

*The +3.3V and +5V total output shall not exceed 90watts.

* Total output for this subject power supply is 400W.

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