



**Sparkle Power Inc.**  
 A Leading Power Supply  
 Manufacturer Website:  
[www.sparklepower.com](http://www.sparklepower.com)



## **FSP400-60GHS(85)**

**(RoHS Compliant)**

**400 Watts SFX Power Supply**

### Features

- Complied with SFX12V 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 (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:** 115Vac and 264Vac,

**Frequency:** 47 ~ 63Hz

**Input Current:** Max 4.5A @ 115Vac, 2.5 A @ 230Vac

**Inrush Current:** No damage.

### Output Characteristics

Output	Min. Load	Normal Load	Max. Load	Peak Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.5A	10A	20A		±5%	±1%	70mV P-P
+5V	0.5A	11A	22A		±5%	±1%	70mV P-P
+12V1	1A	8A	16A		±5%	±1%	140mV P-P
+12V2	1A	8A	16A	19A	±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

### Specification

- **Temperature Range:** Operating: +10°C ~ +50°C on full load  
Storage & Shipping: -20°C ~ +80°C
- **Humidity:** 5-95% on operating, 5-95% on storage
- **Dielectric Withstand:** Primary to frame ground 1800V<sub>AC</sub> for 1 second
- **Rise time:** Less than 20ms
- **Hold-up Time:** 17ms 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):** 125 x 100 x 64mm

1. +3.3V & 5V total output not exceed 125W.
2. Total output continuous shall not exceed 300W.
3. +12V2 Peak current is 19A (less then 10m sec.). Minimum voltage during peak is >10.8Vdc.
4. 5Vsb Peak current is 3A (less then 500m sec.), minimum voltage during peak is >4.5Vdc.

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