



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

FSP460-60GHN
(80PLUS, RoHS Compliant)
460 Watts ATX+12V Switching Power Supply

Features

- Complied with ATX12V 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, CSA, TUV EN60950-1, CB report (60950-1),NEMKO,FCC,EMC

Input Characteristics

Input Range: 90 ~ 265Vac (RMS), Full Range Input
Frequency: 47 ~ 63Hz
Input Current: Max 5.5A (RMS) @ 115Vac, 3A (RMS) @ 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% | 50mV P-P |
| +5V | 0.2A | 12A | 24A | | ±5% | ±1% | 50mV P-P |
| +12V1 | 0.1A | 8.5A | 17A | | ±5% | ±1% | 120mV P-P |
| +12V2 | 0.5A | 8.5A | 17A | 19A | ±5% | ±1% | 120mV P-P |
| -12V | 0A | 0.25A | 0.5A | | ±10% | ±1% | 120mV P-P |
| +5VSB | 0A | 1.25A | 2.5A | 3.5A | ±5% | ±1% | 50mV P-P |

- (1) +3.3V & +5V total output not exceed 123W.
- (2) Maximum combined current for the +12V outputs shall be 34A.
- (3) +12V2 Peak current is 19A (less then 10m Sec.) , minimum voltage during peak is >11.0Vdc.
- (4) +5Vsb Peak current is 3.5A(less then 500m Sec.) , minimum voltage during peak is > 4.5Vdc.

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Specification

- **Temperature Range:** Operating: +10°C ~ +50°C ; storage & shipping: -20°C ~ +80°C
- **Humidity:** 5-95% RH on operating, 5-95%RH on storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 1 second
- **Efficiency:** 80% minimum, typical up to 82%
- **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):** 140x150x86mm / 5.5x5.9x3.4inch