



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

FSP450-60EPN(80)
(80PLUS Bronze, 2013 ErP, RoHS Compliant)
350 Watts, ATX 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 UL/CUL 60950-1, TUV EN60950-1, IEC60950-1 (CB Report), CE, FCC, EMC report

Input Characteristics

Input Range: 90 ~ 264Vac (RMS), Full Range Input
Frequency: 47 ~ 63Hz
Input Current: Max 7.0A @ 115Vac, 3.5A @ 230Vac
Inrush Current: No damage.

Output Characteristics

| | MINIMUM LOAD | NORMAL LOAD | MAXIMUM LOAD | LOAD REG. | LINE REG. | RIPPLE & NOISE |
|-------|--------------|-------------|--------------|-----------|-----------|----------------|
| +3.3V | 0.5A | 16.94A | 24A | ±5% | ±1% | 50mV P-P |
| +5V | 0.3A | 10.59A | 15A | ±5% | ±1% | 50mV P-P |
| +12V1 | 0.5A | 13.61A | 18A | ±5% | ±1% | 120mV P-P |
| +12V2 | 0.5A | 13.61A | 18A | ±5% | ±1% | 120mV P-P |
| -12V | 0A | 0.27A | 0.3A | ±10% | ±2% | 200mV P-P |
| +5Vsb | 0A | 2.27A | 2.5A | ±5% | ±1% | 50mV P-P |



Specification

- **Temperature Range:** Operating: 0°C ~ +25°C; storage & shipping: -40°C ~ +70°C
- **Humidity:** 85% on operating, 95% on storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 1 second
- **Efficiency:** 82% minimum.
- **Rise time:** Less than 20ms
- **Hold-up Time:** 16ms 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 / 5.5x5.9x3.4 inch

- (1) +3.3V & +5V total output not exceed 120W.
When +5V is load to 15A, the +3.3V maximum load is 13.63A.
When +3.3V is load to 24A, the +5V maximum load is 8A.
- (2) +12V1 & +12V2 total output not exceed 360W

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