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

# SPI460PFB

## (80PLUS, RoHS Compliant)

### 460 Watts ATX12V 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, TUV EN60950-1 (CB Report) CE ,EMC,FCC

## Specification

- **Temperature Range:** Operating: 0°C ~ +50°C ; storage & shipping: -20°C ~ +80°C
- **Humidity:** 5 ~ 90% on operating, 5 ~ 95% on storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 1 second
- **Efficiency: 80%** minimum, typical up to **87%**
- **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

## Input Characteristics

**Input Range:** 90 ~ 264Vac (RMS), Full Range Input
**Frequency:** 47 ~ 63Hz
**Input Current:** Max 6A (RMS) @ 115Vac, 3A (RMS) @ 230Vac
**Inrush Current:** No damage

## Output Characteristics

| Output Voltage | Minimum Load | Normal Load | Maximum Load | Load Reg. | Ripple & Noise |
|---|---|---|---|---|---|
| **+3.3V** | 0.3A | 11A | 22A | ± 5% | 50mV P-P |
| **+5V** | 0.5A | 10A | 20A | ± 5% | 50mV P-P |
| **+12V1** | 1.0A | 8A | 16A | ± 5% | 120mV P-P |
| **+12V2** | 1.0A | 8A | 16A | ± 5% | 120mV P-P |
| **-12V** | 0.0A | 0.25A | 0.5A | ± 10% | 120mV P-P |
| **+5Vsb** | 0.0A | 1.25A | 2.5A | ± 5% | 50mV P-P |

*+3.3V and +5V total output not exceed 150W
* Total output for this subject power supply is 460W


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