



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

**SPI180F4BS**  
**(80PLUS Silver, RoHS Compliant)**  
**180 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 2002/95/EC (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 2<sup>nd</sup> TUV EN60950-1 2<sup>nd</sup>, CB 60950-1 2<sup>nd</sup> , FCC, EMC

**Input Characteristics**

**Input Range:** 90 ~ 264Vac, Full Range Input  
**Frequency:** 47 ~ 63Hz  
**Input Current:** Max 3A @ 115Vac, 1.5A @ 230Vac  
**Inrush Current:** No Damage

**Output Characteristics**

| Output Voltage | Minimum Load | Normal Load | Maximum Load | Load Reg. | Ripple & Noise |
|----------------|--------------|-------------|--------------|-----------|----------------|
| +3.3V          | 0.1A         | 5A          | 10A          | ± 5%      | 50mV P-P       |
| +5V            | 0.2A         | 7A          | 14A          | ± 5%      | 50mV P-P       |
| +12V           | 0.6A         | 5A          | 10A          | ± 5%      | 120mV P-P      |
| -12V           | 0A           | 0.15A       | 0.3A         | ± 10%     | 120mV P-P      |
| +5Vsb          | 0A           | 1.25A       | 2.5A         | ± 5%      | 50mV P-P       |

\*+3.3V and +5V total output not exceed 80W  
 \* Total output for this subject power supply is 180W

**Specification**

- **Temperature Range:** Operating: 0°C ~ +50°C on full load; storage & shipping: -20°C ~ +80°C
- **Humidity:** 85% on operating, 95% on storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 2 second
- **Efficiency:** Typical > 88%
- **Rise time:** Less than 20ms
- **Hold-up Time:** 16 ms 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):** 150x81.5x40.5mm / 5.9x3.2x 1.6inch

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