

# SMX POWER

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## FSP180-50MP

180 Watts, SFX12V-2.0, 1U high.

### Medical Grade Switching Power Supply

#### Features

- Complied with SFX12V-2.0 and ATX12V standard
- Active Power Factor Correction Meeting with EN61000-3-2
- High efficiency and reliability
- Remote On/Off function
- Internal 12V DC fan included
- Noise Killer (Thermal fan speed control function)
- Low noise and ripple
- Complies with FCC part 18 subpart C at 110V AC operation and EN60601-1-2, EN55011 at 230V AC operation
- Output over voltage, short circuit, and over current protection
- 100% Hi-pot, ATE, and burn-in tested
- Re-settable power shut down
- Approved by UL 60601, CSA C22.2 Level 3, VDE EN60601-1

#### Input Characteristics

**Input Range:** 90~265V AC, Full Range Input

**Frequency:** 47~63Hz

**Input Current:** 4A (RMS) @115V AC, 2A (RMS) @230V AC

**Inrush Current:** 50A Max for 115V AC, 80A Max for 230V

AC Cold start

#### Output Characteristics

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.3A	16.8A	± 5%	± 1%	50mV P-P
+5V	0.3A	12.0A	± 5%	± 1%	50mV P-P
+12V	1.5A	12.0A	± 5%	± 1%	120mV P-P
-12V	0.0A	0.8A	± 10%	± 2%	120mV P-P
+5Vsb	0.0A	2.0 A	± 5%	± 1%	50mV P-P

\*+5V and +3.3V total output not exceed 61W

\*+3.3V, +5V, and +12V total output cannot exceed 165W

#### Specification

- **Temperature Range:** Operating 0° C ~ +50° C on full load; storage & shipping -20° C ~ +80° C
- **Humidity:** 95% on operating and 95% on storage
- **Dielectric Withstand:** Input to frame ground 1800V AC for 1 second
- **Efficiency:** 68% at minimum measured at nominal AC main voltage and frequency with maximum load on all output
- **Rise Time:** Less than 20ms
- **Hold-up Time:** 17ms minimum at nominal input voltage
- **Power Good Signal:** Power on delay time 100 ms to 500 ms, off delay 1ms minimum (TTL and CMOS compatible)
- **Leakage Current:** Not exceed 0.5mA at 264V AC, 50Hz
- **MTBF:** 100,000 hours on maximum load at +25° C degree
- **Dimension (WxHxL):** 81.5x40.5x190mm/3.2"x1.6"x7.5" inches