

# SMX POWER

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## FSP250-50PLB

### 220/250 Watts Flex ATX12V, 1U High Switching Power Supply

#### Features

- Complied with Flex ATX 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 15 subpart J Class B and CISPR 22 Class B
- 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 60950, CSA C22.2 No.60950, TUV EN60950, NEMKO (CB Report), CE

#### Input Characteristics

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

**Frequency:** 47~63Hz

**Input Current:** 5A (RMS) @115V AC, 3A (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•Peak Load•Load Reg.•Line Reg.•Ripple &**

**Noise**•••••**250W (25°C)•220W (50°C)•250W (25°C)•220W (50°C)•••••+3.3V•0.3A•18.0A•14.0A•••± 5%± 1%•50mV P-P••+5V•0.3A•20.0A•18.0A•••± 5%± 1%•50mV P-P••+12V•1.0A•16.0A•14.0A•18.0A•16.0A•± 5%± 1%•120mV P-P••12V•0.0A•0.5A•0.5A•••± 5%± 1%•120mV P-P••+5Vsb•0.0A•2.0 A•2A•2.5A•2.5A•± 5%± 1%•50mV P-P••**

**250W (25°C):** +5V and +3.3V total output not exceed 115W.

+3.3V, +5V, and +12V total output cannot exceed 236.4W.

**220W (50°C):** +5V and +3.3V total output not exceed 110W.

+3.3V, +5V, and +12V total output cannot exceed 206.4W.

#### Specification

- **Temperature Range:** Operating 0° C ~ +25° C on 250W output load or 0° C ~ +50° C on 220W output load ; storage & shipping -20° C ~ +80° C
- **Humidity:** 5~95% on operating and 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 3.5mA at 264VAC, 50Hz
- **MTBF:** 100,000 hours on maximum load at +25° C degree
- **Dimension (WxHxL):** 81.5x40.5x190mm/3.2"x1.6"x7.5" inches