

SMX POWER

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ATX-400PA

400 Watts ATX12V - 2.01 Switching Power Supply

Features

- Complied with ATX12V 2.0 standard
- 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, IEC 60950, TUV EN60950, NEMKO (CB Report)

Input Characteristics

Input Range: $\pm 10\%$ of 115Vrms/57~ 63Hz, $\pm 10\%$ of 230Vrms/47~ 53Hz, manual selection.

Input Current: 10A (RMS) @ 115Vrms/60Hz, 5A (RMS) @ 230Vrms/50Hz

Inrush Current: 120A max cold start, 150A warm measured at 115Vrms/60Hz

Output Characteristics

Output Voltage	Minimum Load	Normal Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.5A	15A	30A	$\pm 5\%$	$\pm 1\%$	50mV P-P
+5V	1.0A	15A	28A	$\pm 5\%$	$\pm 1\%$	50mV P-P
+12V1DC	1.0A	9A	18A	$\pm 5\%$	$\pm 1\%$	100mV P-P
+12V2DC	1.0A	9A	18A	$\pm 5\%$	$\pm 1\%$	100mV P-P
-12V	0.0A	0.15A	0.5A	$\pm 10\%$	$\pm 2\%$	100mV P-P
+5Vsb	0.0A	1.0A	2.0 A	$\pm 5\%$	$\pm 1\%$	50mV P-P

*+3.3V and +5V total output not exceed 150W

+3.3V is load on 22A then +5V maximum load is 11.4A; +5V is load on 22A then +3.3V maximum load is 6.0A

*+12V1, +12V2 total output not exceed 348W

*+3.3V, +5V, +12V1DC, and +12V2DC total output not exceed 386W

Specification

- **Temperature Range:** Operating $0^{\circ}\text{C} \sim +25^{\circ}\text{C}$ on full load; De-rate $2\text{W}/^{\circ}\text{C}$ from $+25^{\circ}\text{C}$ to $+50^{\circ}\text{C}$.
Storage & shipping $-20^{\circ}\text{C} \sim +65^{\circ}\text{C}$
- **Humidity:** 90% on operating and 95% on storage
- **Dielectric Withstand:** Input to frame ground 1800V AC for 1 second
- **Efficiency: 70%** minimum measured at nominal AC main voltage and frequency with maximum loads on all outputs
- **Rise Time:** Less than 20ms on all outputs
- **Hold-up Time:** 12ms 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
- **MTBF:** 100,000 hours on maximum load at $+25^{\circ}\text{C}$
- **Dimension (WxHxL):** 150x86x140mm / 6x3.4x5.5inches