

SMX POWER

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ATX-300PN

300 Watts ATX12V-2.01 Switching Power Supply

Features

- Complied with ATX12V 2.0 standard
- High efficiency, Low noise and ripple and reliability
- Remote On/Off function
- Internal 12V DC fan included
- Noise Killer (Thermal fan speed control function)
- 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, TUV, IEC 60950, NEMKO (CB Report)

Input Characteristics

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

Input Current: 7A (RMS) @ 115Vrms/60Hz, 4A (RMS) @ 230Vrms/50Hz

Inrush Current: 100A Max cold start, 120A Max warm start measured at 264Vrms/50Hz

Output Characteristics

Output Voltage	Minimum Load	Normal Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.5A	10A	20A	$\pm 5\%$	$\pm 1\%$	50mV P-P
+5V	1.0A	10A	20A	$\pm 5\%$	$\pm 1\%$	50mV P-P
+12V1DC	1.0A	4A	16A	$\pm 5\%$	$\pm 1\%$	120mV P-P
+12V2DC	1.0A	7A	16A	$\pm 5\%$	$\pm 1\%$	120mV P-P
-12V	0.0A	0.4A	0.8A	$\pm 10\%$	$\pm 2\%$	120mV P-P
+5Vsb	0.0A	1A	2.0 A	$\pm 5\%$	$\pm 1\%$	50mV P-P

*+3.3V and +5V total output not exceed 120W

+3.3V is load on 20A then +5V maximum load is 10.8A; +5V is load on 20A then +3.3V maximum load is 6A.

*+12V1+12V2 total output not exceed 264W

*+3.3V, +5V, +12V1, and +12V2 total output not exceed 280W



Specification

- **Temperature Range:** Operating $0^{\circ}\text{C} \sim +25^{\circ}\text{C}$ on full load; De-rate 2W/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
- **Insulation Resistance:** 20 Meg. Ohm Min.
- **Efficiency: 70%** minimum measured at nominal AC main voltage with maximum load on all outputs
- **Rise Time:** Less than 20ms on all outputs.
- **Hold-up Time:** 17ms minimum at 115V/230VAC
- **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 $+25^{\circ}\text{C}$ degree
- **Dimension (WxHxL):** 150x86x140mm/6"x3.4"x5.5" inches