

XL260-2 ATX AC-DC



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 TEL: (805) 582-2804 FAX: (805) 582-2308
www.smxpower.com

- 260 W AC-DC / 3" X 5" FOOTPRINT
- UP TO 87% EFFICIENCY
- HIGH POWER DENSITY:
OVER 11.5 W / in³
- REMOTE ON / OFF
- 5W 5V STANDBY SUPPLY
- UNIVERSAL AC INPUT
- ACTIVE PFC (90 – 264 VAC)
- INRUSH CURRENT PROTECTION
- RoHS COMPLIANT



POWER SUPPLY DESIGN LEADER

N2Power™ leads the power density race with its latest small, high efficiency XL260-2 ATX AC-DC power supply. Our advanced technology yields

TWICE THE POWER IN HALF THE SPACE

a very small footprint, reduces wasted power, and offers the highest power density in its class. This efficient design means reduced energy costs, a greater return on your investment, greater reliability and longer product life.

UNMATCHED POWER DENSITY

With an overall height of 1.5" and a 3" x 5" footprint, the XL260-2 ATX boasts a power density over 11.5 watts per cubic inch. It is ideally suited for OEMs using the industry standard 1U chassis.

HIGH EFFICIENCY IN A SMALL PACKAGE

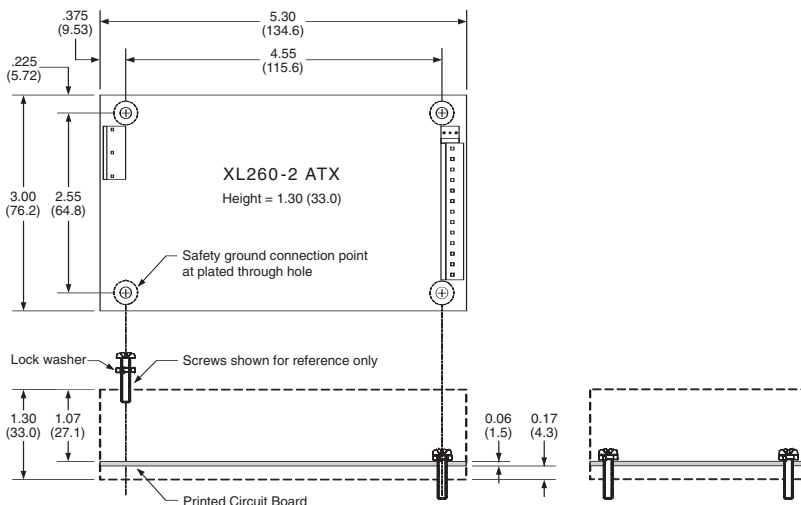
The XL260-2 ATX provides up to 87% efficiency. Our unique design reduces energy consumption and generates less wasted heat. It requires little forced air cooling, decreases AC loading, increases reliability and economy of operation. Comparisons of efficiencies show that our supplies can reduce losses up to 50%.

REPEATABLE QUALITY

We use advanced PCB technology to deliver the highest density and best performance in the industry. Our packaging design incorporates SMT technology to automate processes, ensure reliability, and reduce cost. Each power supply undergoes a complete functional test and a multi-hour burn-in to insure that every unit meets our stringent

Typical Mechanical Drawing:

Inches (millimeters), connectors and pinouts may vary with model.
 Refer to XL260-2 ATX Product Specification for complete information.



quality requirements. Detailed statistical production records are maintained and rigid quality and AVL control insures the highest quality product available. Each power supply design is also rigorously tested by UL, DEMKO,

and European agencies, with scheduled factory audits to ensure ongoing compliance.

Contact us regarding custom and modified standard supplies for unique applications.

ULTRA SMALL, HIGH EFFICIENCY POWER SUPPLIES

XL260-2 ATX AC-DC

MODEL	OUTPUT	VOLTAGE	REGULATION (%)	MAXIMUM CURRENT (A)	RIPPLE & NOISE (P-P)
XL260-2 ATX	V1	24	±4	6.0*	240 mV
	V2	5	±4	10.0	50 mV
	V3	12	±5	4.0	120 mV
	V4	12	±5	0.7	120 mV
	V5	5SB	±5	1.0	50 mV

All outputs isolated from the chassis and share a common return

* See XL260-2 ATX Product Specification section 3.3.3 for pulse output current

INPUT SPECIFICATIONS	
Nominal Input Voltage:	100 – 240 VAC
Tested Input Limits:	90 – 264 VAC
Input Frequency Range:	47 – 63 Hz
Input Current:	3.5 A @ 100 VAC
Input Protection:	5 A fuse
Safety Isolation:	3000 VAC input to output 1500 VAC input to ground
Inrush Current:	13 A @ 240 VAC†
Power Factor Correction:	Active PFC circuitry, meets or exceeds EN61000-3-2

OUTPUT SPECIFICATIONS	
Total Output:	260 W
Hold-up Time:	Minimum 22 mS
Efficiency:	Up to 87%†
Minimum Load:	No load
Over / Under Shoot:	Maximum 10% at turn-on
PROTECTION	
Overvoltage Protection:	V1, V2 and V5 (latches off)
Overpower Protection:	Protected / Auto Recovery
Short Circuit Protection:	Auto recovery of all outputs protected against short circuit
Thermal Shutdown:	Auto recovery protection against over temperature conditions

OPERATING SPECIFICATIONS	
Operating Temperature:	-25°C to +50°C
Temperature Derating:	2.5% / degree 50°C to 70°C
Storage Temperature:	-40°C to +85°C
Forced Air Cooling:	10 CFM minimum†
Leakage Current:	1.4mA†
MTBF:	>200,000 hours calculated
SIGNALS	
Remote Sense:	V2
Fan Output:	V4
Remote Enable Input:	Low-true input

† See Product Specification

COMPLIANCE:

USA/Canada:

UL60950-1:2007 (2nd Edition) / C22.2 No. 60950-1-07 (Bi-National Standard) Safety of Information Technology Equipment

Europe:

Directive 2006/95/EC - "Low Voltage (Safety) Directive"

IEC 60950-1:2005 (2nd Edition) Safety of Information Technology Equipment. (CB Report)

Directive 2004/108/EC "Electromagnetic Compatibility (EMC) Directive"

EN61204-3:2001 Stabilized Power Supplies, d.c. Outputs EMC Standards Specification

EN61204-3:2001 is a product family EMC standard referencing the following standards:

- EN61000-3-3 Limits of Voltage Fluctuations & Flicker
- EN61000-3-2 Harmonic Current Emissions (Power Factor Correction)
- EN61000-4-3 Radiated Radio Frequency.

Electromagnetic Field Immunity
EN61000-4-4 Fast Transient / Burst Immunity
EN61000-4-5 Surge Immunity
EN61000-4-6 Immunity to Conducted Disturbances
EN61000-4-11 Voltage Dips, Short Interrupts & Voltage Variations

Directive 2002/95/EC - "Restriction of Hazardous Substances (RoHS)"

Safety Approvals:
UL, cUL, DEMKO, CB Certificate, CB Report, CE Mark



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