

ULTRA SMALL, HIGH EFFICIENCY POWER SUPPLIES ATX AC-DC SERIES

- UP TO 87% EFFICIENCY
- HIGH POWER DENSITY
- REMOTE ON / OFF
- 5W 5V STANDBY SUPPLY
- UNIVERSAL AC INPUT
- ACTIVE PFC (90 – 264 VAC)
- INRUSH CURRENT PROTECTION
- RoHS COMPLIANT



XL260-2ATX Model shown

POWER SUPPLY DESIGN LEADER

N2Power™ leads the power density race with its latest small, high efficiency ATX Series AC-DC power supplies. Our advanced technology

TWICE THE POWER IN HALF THE SPACE

yields 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

Most ATX Series models are designed expressly for OEM packaging in 1U chassis to deliver very high power density. The XS285ATX model features multiple outputs and cooling in an industry standard enclosure for PC chassis applications.

HIGH EFFICIENCY IN A SMALL PACKAGE

The ATX Series 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

Each power supply design is tested by UL, and every one manufactured undergoes a complete functional test and a multi-hour burn-in to insure that every unit meets our stringent quality requirements.

Contact us regarding custom supplies for unique applications.

INPUT SPECIFICATIONS	
Nominal Input Voltage:	100 – 240 VAC
Tested Input Limits:	90 – 264 VAC
Input Frequency Range:	47 – 63 Hz
Input Current:	See Product Specification
Input Protection:	See Product Specification
Safety Isolation:	3000 VAC input to output 1500 VAC input to ground
Inrush Current:	See Product Specification
Leakage Current:	0.75 – 1.4mA @ 240 VAC / 60 Hz†
Power Factor Correction:	Active PFC circuitry, meets or exceeds EN61000-3-2

OUTPUT SPECIFICATIONS	
Total Output:	125 – 285 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 V3 (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*†
MTBF:	>200,000 hours calculated
SIGNALS	
Remote Sense:	See Product Specification
Fan Output:	See Product Specification
Remote Enable Input:	Low-true input

† See Product Specification

* XS285ATX contains fans

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ATX AC-DC SERIES

MODEL	PART NUMBER	OUTPUT	VOLTAGE	REGULATION (%)	MAXIMUM CURRENT (A)	RIPPLE & NOISE (P-P)	DIMENSIONS W x D x H
XL125-1ATX	400002-71-3	V1	3.3	±2	10.0	50 mV	3 x 5 x 1.25" 76.2 x 127 x 31.7mm
		V2	5	±4	15.0	50 mV	
		V3	12	±5	5.0	120 mV	
		V4	-12	±5	1.0	120 mV	
		V5	5sb	±5	1.0	50 mV	
XL160-1ATX	400011-04-5	V1	3.3	±2	15.0	50 mV	3 x 5 x 1.25" 76.2 x 127 x 31.7mm
		V2	5	±4	20.0	50 mV	
		V3	12	±5	6.0	120 mV	
		V4	-12	±5	1.0	120 mV	
		V5	5sb	±5	1.0	50 mV	
XL160-7ATX	400017-02-6	V1	2.5	±2	15.0	50 mV	3 x 5 x 1.25" 76.2 x 127 x 31.7mm
		V2	5	±4	20.0	50 mV	
		V3	12	±5	6.0	120 mV	
		V4	-12	±5	1.0	120 mV	
		V5	5sb	±5	1.0	50 mV	
XL160-8ATX	400018-07-3	V1	5	±5	20.0	50 mV	3 x 5 x 1.25" 76.2 x 127 x 31.7mm
		V2	12	±5	6.0	120 mV	
		V3	-12	±5	1.0	120 mV	
		V4	5sb	±5	1.0	50 mV	
XL220-1ATX	400019-01-4	V1	24	±4	6.0	240 mV	3 x 5.3 x 1.3" 76.2 x 134.6 x 33mm
		V2	5	±4	10.0	50 mV	
		V3	12	±5	1.0	120 mV	
		V4	-12	±5	0.2	120 mV	
		V5	5sb	±5	1.0	50 mV	
XL260-2ATX	400050-02-7	V1	24	±4	6.0	240 mV	3 x 5.3 x 1.35" 76.2 x 134.6 x 34mm
		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	
XL260-4ATX	400050-04-3	V1	48	±4	3.0	480 mV	3 x 5.3 x 1.35" 76.2 x 134.6 x 34mm
		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	
XS285ATX	400027-02-5	V1	3.3	±2	15.0	50 mV	5.5 x 5.9 x 3.4" 139.7 x 149.9 x 86.4mm
		V2	5	±4	20.0	50 mV	
		V3	12	±5	6.0	120 mV	
		V4	-12	±5	1.0	120 mV	
		V5	5sb	±5	1.0	50 mV	
		V6	24	±3	5.2	240 mV	
		V7	12	±5	1.0	120 mV	

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, CB Certificate, CB Report, CE Mark

