

N2POWER XL ATX AC-DC SERIES ULTRA SMALL, HIGH-EFFICIENCY POWER SUPPLIES

- Up to 87% efficiency
- High power density
- Remote on/off
- 5V Standby output (1amp)
- 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 small, high efficiency ATX Series AC-DC power supplies. Our advanced technology 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

Our ATX Series models are designed expressly for OEM packaging in 1U and 2U chassis to deliver very high power density. The XS285-ATX 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, and 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 we manufacture undergoes a complete functional test and a multi-hour burn-in to insure that every unit meets our stringent quality requirements.

RoHS

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Models and Dimensions (W x D x H)

XL125-1ATX	XL160-1ATX	XL160-7ATX	XL160-8ATX	XL220-1ATX	XL260-2ATX	XL260-4ATX	XS285-ATX
3 x 5 x 1.25"	3 x 5 x 1.3"		3 x 5.3 x 1.35"	5.5 x 5.9 x 3.4"			
76.2 x 127 x 31.7mm	76.2 x 127 x 33mm		76.2 x 134.6 x 34mm	139.7 x 149.9 x 86.4mm			

Contact us regarding custom supplies for unique applications



QUALSTAR CORPORATION www.n2power.com Tel: 805-583-7744

NASDAQ: QBAK



N2POWER XL ATX AC-DC SERIES ULTRA SMALL, HIGH-EFFICIENCY POWER SUPPLIES

MODEL	PART NUMBER	OUTPUT	VOLTAGE	REGULATION (%)	MAXIMUM CURRENT (A)	RIPPLE & NOISE (P-P)
		V1	3.3	±2	10.0	50 mV
		V2	5	±4	15.0	50 mV
XL125-1ATX	400002-71-3	V3	12	±5	5.0	120 mV
		V4	-12	±5	1.0	120 mV
		V5	5sb	±5	1.0	50 mV
	400011-04-5	V1	3.3	±2	15.0	50 mV
		V2	5	±4	20.0	50 mV
XL160-1ATX		V3	12	±5	6.0	120 mV
		V4	-12	±5	1.0	120 mV
		V5	5sb	±5	1.0	50 mV
		V1	2.5	±2	15.0	50 mV
		V2	5	±4	20.0	50 mV
XL160-7ATX	400017-02-6	V3	12	±5	6.0	120 mV
		V4	-12	±5	1.0	120 mV
		V5	5sb	±5	1.0	50 mV
	400018-07-3	V1	5	±4	20.0	50 mV
		V2	12	±5	6.0	120 mV
XL160-8ATX		V3	-12	±5	1.0	120 mV
		V4	5sb	±5	1.0	50 mV
	400019-01-4	V1	24	±4	6.0	240 mV
		V2	5	±4	10.0	50 mV
XL220-1ATX		V3	12	±5	1.0	120 mV
		V4	12	±5	1.0	120 mV
		V5	5sb	±5	1.0	50 mV
	400050-02-7	V1	24	±4	6.0	240 mV
		V2	5	±4	10.0	50 mV
XL260-2ATX		V3	12	±5	4.0	120 mV
		V4	12	±5	0.7	120 mV
		V5	5sb	±5	1.0	50 mV
	400050-04-3	V1	48	±4	3.0	480 mV
		V2	5	±4	10.0	50 mV
XL260-4ATX		V3	12	±5	4.0	120 mV
		V4	12	±5	0.7	120 mV
		V5	5sb	±5	1.0	50 mV
	400027-01-7	V1	3.3	±2	15.0	50 mV
		V2	5	±4	20.0	50 mV
		V3	12	±5	6.0	120 mV
XS285-ATX		V4	-12	±5	1.0	120 mV
		V5	5sb	±5	1.0	50 mV
		V6	24	±3	5.2	240mV
		V7	12	±5	1.0	120 mV

Nominal Input Voltage:100 – 240 VACTested Input Limits:90 – 264 VACInput Frequency Range:47 – 63 HzInput Current:See Product SpecificationSafety Isolation:3000 VAC in to out 1500 VAC in to groundInrush Current:See Product SpecificationLeakage Current:0.75 – 1.4 mA @ 240 VAC / 60 HzPower FactorActive PFC circuitry, meets or exceeds EN61000-3-2OUTPUT SPECIFICATIONS125W – 285WHold-up Time:Minimum 22 msEfficiency:Up to 87%Minimum Load:No loadOver / Under Shoot:Max 10% at turn-onPROTECTIONV1, V2 and V3 (latches off)Overpower Protection:Protected / Auto-recoveryShort Circuit Protection:Protected / Auto-recoveryShort Circuit Protection:-25 to +50°CTemperature Derating:-25 to +50°CTemperature Derating:2.5% / degree, 50°C to 70°CStorage Temperature:-40 to +85°CForced Air Cooling:10 CFM minimum *MTBF:>200,000 hours (calculated)SignALSSee Product SpecificationRemote SenseSee Product SpecificationFan OutputSee Product SpecificationForced Air Cooling:10 CFM minimum *Protect Air Cooling:10 C	INPUT SPECIFICATIONS					
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Fan Output See Product Specification Remote Enable Input Low-true input	SIGNALS					
Remote Enable Input Low-true input	Remote Sense	See Product Specification				
	Fan Output	See Product Specification				
	Remote Enable Input	Low-true input				
		Positive true				

* XS285-ATX contains fan

Compliance ¹

USA / Canada

Europe

Safety: UL 60950-1:2007 (2nd Edition) / C22.2 No. 60950-1-07 UL 62368-1 (Second Edition) Safety of Information Technology Equipment (ITE)

EMC: FCC part 15, subpart B

2006/95/EC - "Low Voltage (Safety) Directive" Demko: EN 60950-1:2006+A11:2009 (2nd Edition) EN 62368-1:2014 / A11:2017

2004/108/EC "Electromagnetic Compatibility (EMC) Directive" EN 61204-3 Class B

International

EC 60950-1:2005 (2nd Edition) IEC 62368-1:2014 Safety of Information Technology Equipment

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IEC 61204-3 Class B

RoHS

CE

¹ See Product Specification for additional information. The power supply is considered a component of the final product in which it is being used. The final product itself must be tested separately for compliance with all applicable standards.

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