N2POWER XR ATX AC-DC SERIES

ULTRA SMALL, HIGH-EFFICIENCY POWER SUPPLIES

- **Up to 84% 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 chassis (actual size: 3” x 5” x 1.32”) to deliver very high power density.

High Efficiency in a Small Package

The ATX Series provides up to 84% 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 approved 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.

Contact us regarding custom supplies for unique applications

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MODEL	PART NUMBER	OUTPUT	VOLTAGE	REGULATION (%)	MAXIMUM CURRENT (A)	RIPPLE & NOISE (P-P)
XR125-1ATX	400150-02-5	V1	3.3	±3	10.0	50 mV
		V2	5	±5	15.0	50 mV
		V3	12	±5	5.0	120 mV
		V4	-12	±5	1.0	120 mV
		V5	5sb	±5	1.0	50mV
XR125-7ATX	400151-02-3	V1	2.5	±3	12.0	50 mV
		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	50mV
XR125-8ATX	400152-02-1	V2	5	±5	16.5	50 mV
		V3	12	±5	5.0	120 mV
		V4	-12	±5	1.0	120 mV
		V5	5sb	±5	1.0	50mV
XR160-1ATX	400125-02-7	V1	3.3	±3	15.0	50 mV
		V2	5	±5	20.0	50 mV
		V3	12	±5	6.0	120 mV
		V4	-12	±5	1.0	120 mV
		V5	5sb	±5	1.0	50mV
XR160-7ATX	400126-02-5	V1	2.5	±3	15.0	50 mV
		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	50mV
XR160-8ATX	400127-02-3	V2	5	±5	20.0	50 mV
		V3	12	±5	6.0	120 mV
		V4	-12	±5	1.0	120 mV
		V5	5sb	±5	1.0	50mV

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
Safety Isolation:	3000 VAC in to out 1500 VAC in to ground
Inrush Current:	See Product Specification
Leakage Current:	0.75 – 1.4 mA @ 240 VAC / 60 Hz
Power Factor Correction:	Active PFC circuitry, meets or exceeds EN61000-3-2
OUTPUT SPECIFICATIONS	
Total Output:	125W – 160W
Hold-up Time:	Minimum 22 ms
Efficiency:	Up to 84%
Minimum Load:	No load
Over / Under Shoot:	Max 10% at turn-on
PROTECTION	
Input Overcurrent Protection:	See Product Specification
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
ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature:	–25 to +50˚C
Temperature Derating:	2.5% / degree, 50˚C to 70˚C
Storage Temperature:	– 40 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
Power Good	Positive true

Compliance [1]

	USA / Canada	Europe	International
Safety:	UL 60950-1:2007 (2nd Edition) / C22.2 No. 60950-1-07 UL 62368-1 (Second Edition) Safety of Information Technology Equipment (ITE)	2006/95/EC - "Low Voltage (Safety) Directive" Demko: EN 60950-1:2006+A11:2009 (2nd Edition) EN 62368-1:2014 / A11:2017	EC 60950-1:2005 (2nd Edition) IEC 62368-1:2014 Safety of Information Technology Equipment
EMC:	FCC part 15, subpart B	2004/108/EC "Electromagnetic Compatibility (EMC) Directive" EN 61204-3 Class B	IEC 61204-3 Class B

[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.