



## N2Power XR ATX AC-DC Series

### Ultrasmall, High Efficiency Power Supplies

#### HIGHLIGHTS

- 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

#### REPEATABLE QUALITY

All of our power supply designs are approved by UL, and each one we manufacture undergoes a complete functional test and a multi-hour burn-in to ensure every unit meets our stringent quality requirements.

#### UNMATCHED POWER DENSITY

Our ATX Series models are designed expressly for OEM packaging in 1U chassis (actual size: 3" × 5" × 1.32") to deliver extremely 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%.

## A POWER SUPPLY DESIGN LEADER

**N2Power** leads the power density race with its high efficiency XR ATX AC-DC power supplies, which provide up to 84% efficiency. In fact, comparisons of efficiencies show that our supplies can reduce energy losses by up to 50%. Our advanced technology yields a very small footprint and offers the highest power density in its class. This unique design also generates less wasted heat—reducing the need for forced air cooling, decreasing AC power consumption, increasing reliability, and maximizing its economy of operation. By building our power supplies with a focus on maximizing efficiency, we can provide our valued customers with reduced energy costs, longer product lifespans, and a greater return on their investment.

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



Call 805.583.7744

N2Power.com

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## Ultrasmall, High Efficiency Power Supplies

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	6.0	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	6.0	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	6.0	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

Note: If you can't find your preferred output voltage listed on the table above, please contact a sales representative. We can easily modify standard PSUs to meet client-specific voltage requirements.

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 +70°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<sup>1</sup>

#### USA / Canada

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

**EMC:** FCC part 15, subpart B

#### Europe

2006/95/EC - "Low Voltage (Safety) Directive"  
Demko: EN 60950-1:2006 (2nd Edition) +A1:2010  
+A11:2009 +A12:2011 +A2:2013  
EN 62368-1:2014 / A11:2017  
2004/108/EC "Electromagnetic Compatibility (EMC) Directive" EN 61204-3 Class B

#### International

IEC 60950-1:2005 (2nd Edition)  
IEC 62368-1:2014  
Safety of Information Technology Equipment  
IEC 61204-3 Class B

<sup>1</sup> 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.

Contact us regarding custom and modified standard supplies for unique applications.  
For complete specifications on all models, please visit our website at [N2Power.com](http://N2Power.com)