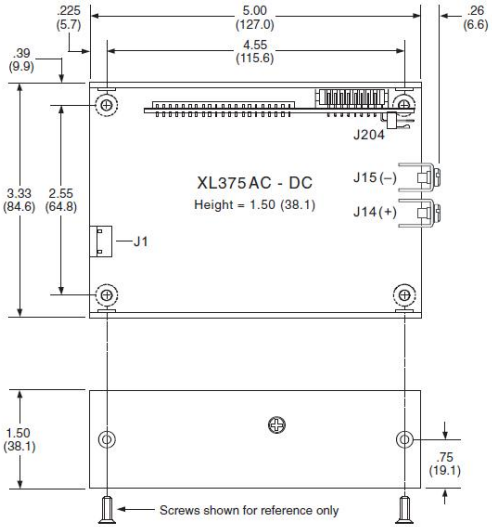
N2POWER XL375 AC-DC SERIES
HIGH-EFFICIENCY POWER SUPPLY

- 375W AC-DC
- 3.3” x 5” footprint
- Up to 93% efficiency
- High power density: Over 15W/cu in.
- All outputs may be paralleled
- Remote on/off
- 5V Standby output (1amp)
- 12V Aux output (1amp)
- Universal AC input
- Active PFC (90 – 264 VAC)
- Active current sharing for N, N+1 (main output)*
- Active inrush current protection
- Convection cooling
- RoHS compliant
- OR-ing MOSFET board (optional)

Power Supply Design Leader
N2Power™ leads the power density race with its high efficiency XL375 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.

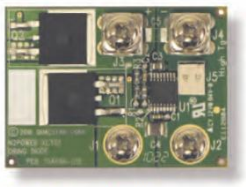
Unmatched Power Density
With an overall height of 1.5" and a 3.3" x 5" footprint, the XL375 Series boasts a power density over 15 watts per cubic inch. It is ideally suited for OEMs using the industry standard 1U chassis.

High Efficiency in a Small Package
The XL375 Series provides up to 93% efficiency. Our unique design reduces energy consumption and generates less wasted heat. It requires little forced air cooling, decreases AC power consumption, increases reliability and economy of operation. You can use the XL375 Series in convection operations up to 260watts (w/o fans). Comparisons of efficiencies show that our supplies can reduce losses up to 50%.

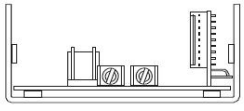


Typical Mechanical Drawing:
Inches (millimeters), connectors and pinouts may vary with model.
Refer to XL375 Product Specification for complete information.

Complete Protection
The main output is enabled whenever all of the required startup conditions are met, and is shut down upon command, loss of input power or whenever excessive loads or temperatures are sensed. It always provides the host system with advanced warning of an impending shutdown to enable it to perform housekeeping before power is lost. The OR-ing board option allows the main outputs of up to four XL375s to be operated in parallel. It also provides hot-swappable N+1 configurations.



OR-ing Board Option



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HIGH-EFFICIENCY POWER SUPPLY

MODEL	PART NUMBER	OUTPUT	VOLTAGE	REGULATION (%)	MAXIMUM CURRENT (A)	RIPPLE & NOISE (P-P)
XL375-12 CS	400040-01-0	V1	12	±3	30.0	100 mV
		V2	12	±5	1.0	80 mV
		V3	5sb	±5	1.0	50 mV
XL375-24 CS	400041-01-8	V1	24	±3	15.0	200mV
		V2	12	±5	1.0	80 mV
		V3	5sb	±5	1.0	50 mV
XL375-28 CS	400052-01-5	V1	28	±3	12.8	200mV
		V2	12	±5	1.0	80 mV
		V3	5sb	±5	1.0	50 mV
XL375-36 CS	400046-01-7	V1	36	±3	10.0	200mV
		V2	12	±5	1.0	80 mV
		V3	5sb	±5	1.0	50 mV
XL375-40 CS	400045-01-9	V1	40	±3	9.0	200mV
		V2	12	±5	1.0	80 mV
		V3	5sb	±5	1.0	50 mV
XL375-48 CS	400042-01-6	V1	48	±3	7.5	200mV
		V2	12	±5	1.0	80 mV
		V3	5sb	±5	1.0	50 mV
XL375-54 CS	400044-01-2	V1	54	±3	6.7	200mV
		V2	12	±5	1.0	80 mV
		V3	5sb	±5	1.0	50 mV
XL375-56 CS	400043-01-4	V1	56	±3	6.4	200mV
		V2	12	±5	1.0	80 mV
		V3	5sb	±5	1.0	50 mV

Compliance [1]

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 (ITE)

EMC

FCC part 15, subpart B

Europe

Safety

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

EMC

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

International

Safety

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

EMC

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.

INPUT SPECIFICATIONS	
Nominal Input Voltage:	100 – 240 VAC
Tested Input Limits:	90 – 264 VAC
Input Frequency Range:	47 – 63 Hz
Input Current:	4.3 A @ 100 VAC
Safety Isolation:	3000 VAC in to out 1500 VAC in to ground
Inrush Current:	14 A @ 240 VAC †
Leakage Current:	0.75 mA @ 240 VAC / 60 Hz †
Power Factor Correction:	Active PFC circuitry, meets or exceeds EN61000-3-2 †
OR-ING BOARD OPTION †	
Output Voltage:	OR-ing Board P/N:
12V	400040-02-8
24V	400041-02-6
28 – 48V	400052-02-3
54 – 56V	400044-02-0
OUTPUT SPECIFICATIONS	
Total Output:	375W (260W with convection cooling option)
Hold-up Time:	Minimum 22 ms at all input voltages
Efficiency:	Up to 93%
Minimum Load:	No load
Over / Under Shoot:	Max 10% at turn-on
PROTECTION	
Input Overcurrent Protection:	6.3 A fuse
Overvoltage Protection:	V1 (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 †
Convection Cooling:	260W
MTBF:	376,644 hours @ 25˚C *
SIGNALS	
Remote Sense	V1 and Return
Current Sharing	V1 using active circuitry
Passive Redundancy	V2 and V3 outputs may be wire OR-ed
Power Good (PG) Output	High-true CMOS logic and LED drive outputs
Remote Enable Input	Low-true input enables V1 output †
Onboard LED Indicators	AC On, Power Good
Trim Input	±5%

† See Product Specification

* See MTBF Report for additional temperature values

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