

N2POWER XL125 DC-DC SERIES ULTRA SMALL, HIGH-EFFICIENCY POWER SUPPLIES

POWER SUPPLY DESIGN LEADER

N2Power continues to lead the power density race with its small, high efficiency XL125 DC-DC power supplies. Our state of the art technology yields a very small footprint, reduces wasted power, and offers the highest power density in the market in the 125 watt range. This unique design means reduced energy costs, a greater return on your investment, higher reliability and longer product life.

HIGHLIGHTS

- 125W DC-DC
- Up to 90% Efficiency
- High Power Density: 6.7 W / cu in.
- 36 76 VDC
- Active Current Sharing
- Built in OR-ing Diodes for N+1 (Optional)
- 3" X 5" Small Footprint
- <1U High: 1.25"
- No Load Operation
- RoHS Compliant
- Input to Output Isolation

REPEATABLE QUALITY

We use advanced PCB technology to deliver the highest density and best performance in the industry. Our packaging design incorporates SMT technology to automate processes, ensure reliability, and reduce cost. Each power supply undergoes a complete functional test and a multi-hour burn-in to insure that every unit meets our stringent quality requirements.

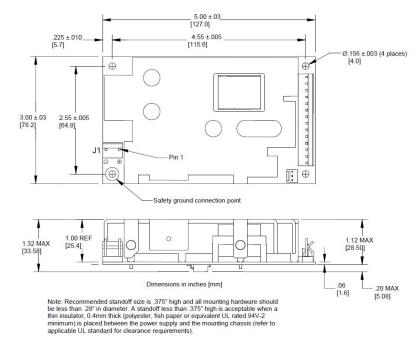
UNMATCHED POWER DENSITY

With an overall height of 1.25" and a 3" x 5" footprint, the XL125 Series boasts a power density of 6.7 watts per cubic inch. It is ideally suited for OEMs using industry standard 1U chassis.



Typical Mechanical Drawing:

Inches (millimeters), connectors and pinouts may vary with model. Refer to XL125/160 DC-DC Product Specification for complete information.



HIGH EFFICIENCY IN A SMALL PACKAGE

The XL125 Series provides up to 90% efficiency in a DC-DC power supply. Our unique design reduces energy consumption and generates less wasted heat. It requires little forced air cooling, decreases DC loads, increases reliability and economy of operation.

RoHS

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



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

NASDAQ: QBAK

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MODEL	PART NUMBER	OUTPUT	VOLTAGE	REGULATION (%)	MAXIMUM CURRENT (A)	RIPPLE & NOISE (P-P)
XL125-05DC	400071-01-5	V1	5	±3	25.0	50 mV
XL125-05DC CS	400070-01-7	V2	12	±5	1.0	120 mV
XL125-12DC	400071-63-5	V1	12	±3	10.4	120 mV
XL125-12DC CS	400070-63-7	V2	12	±5	1.0	120 mV
XL125-15DC	400071-64-3	V1	15	±3	8.3	150 mV
XL125-15DC CS	400070-64-1	V2	12	±5	1.0	120 mV
XL125-24DC	400071-65-0	V1	24	±3	5.2	240 mV
XL125-24DC CS	400070-65-2	V2	12	±5	1.0	120 mV
XL125-48DC	400071-66-8	V1	48	±3	2.6	480 mV
XL125-48DC CS	400070-66-0	V2	12	±5	1.0	120 mV
XL125-54DC	400071-67-6	V1	54	±3	2.3	540 mV
XL125-54DC CS	400070-69-4	V2	12	±5	1.0	120 mV
XL125-56DC	400071-68-4	V1	56	±3	2.2	560 mV
XL125-56DC CS	400070-70-2	V2	12	±5	1.0	120 mV
XL125-1DC	400070-61-1	V1	3.3	±2	10.0	50 mV
		V2	5	±4	15.0	50 mV
		V3	12	±5	5.0	120 mV
		V4	-12	±5	1.0	120 mV
XL125-8DC	400070-68-6	V1	5	±4	16.5	50 mV
		V2	12	±5	5.0	120 mV
		V3	-12	±5	1.0	120 mV

CS = Current Sharing

Compliance: 1

USA / Canada		Europe	International	
Safety:	Underwriters Laboratories: UL 60950-1:2007 (2nd	2006/95/EC - "Low Voltage (Safety) Directive"	IEC 60950-1:2005 (2nd Edition)+ Am1:2009 + Am2:2013	
	Edition) / C22.2 No. 60950-1-07 Safety of Information Technology Equipment (ITE)	Demko: EN 60950-1:2006 (2nd Edition) +A1:2010 +A11:2009 +A12:2011 +A2:2013	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

For complete specifications on all models, please visit our website at: www.n2power.com

All information and specifications are based on our knowledge of the products at the time of printing. N2Power reserves the right to change specifications without notice.

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INPUT SPECIFICATIONS					
Nominal Input Voltage:	36 – 76 VDC				
Input Current:	4 A @ 36 VDC				
Input Protection:	8 A fuse				
Safety Isolation:	3000 V input to output 1500 V input to ground				
OUTPUT SPECIFICATIONS					
Total Power:	125W				
Efficiency:	Up to 90% [†]				
Minimum Load:	No load †				
Over / Under Shoot:	Maximum 10% at turn-on				
PROTECTION					
Overvoltage Protection:	On all main outputs				
Overpower Protection:	Protected / Auto-recovery				
Short Circuit Protection:	All outputs protected against short circuit				
Thermal Shutdown:	Protected against over-temperature conditions				
OPERATING SPECIFICATIONS					
Operating Temperature:	-25°C to +50°C				
Temperature Derating:	2.5% / degree C to 70°C				
Storage Temperature:	-40°C to +85°C				
Forced Air Cooling:	5 CFM				
Convection Cooling:	See Product Specification				
MTBF:	> 200,000 hours (calculated)				
SIGNALS					
Remote Sense:	On main output $^{\dagger \Delta}$				
Current Sharing:	Active current sharing with OR-ing diode $^{\uparrow \Delta}$				
Power Good:	Provided †				
PS_OK:	Output †				
LED:	Some models [†]				

[†]See Product Specification

RoHS

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 Δ Some Models