N2Power™
A Qualstar Company

ULTRA SMALL, HIGH EFFICIENCY POWER SUPPLIES

XL125 Series

- **UNIVERSAL INPUT**
- **N+1 CAPABILITY**
- **ACTIVE POWER FACTOR CORRECTION (PFC)**
- **UP TO 92% EFFICIENCY**
- **3" X 5" STANDARD FOOTPRINT**
- **< "1U" HIGH (ACTUALLY 1.25")**
- **REMOTE SENSE**
- **"POWER GOOD" SIGNAL**
- **MAXIMUM OUTPUT: 125 W**

ADVANCED PATENTED TECHNOLOGY

The XL125 Series power supplies by N2Power are the smallest, most efficient open frame power supplies on the market. N2Power's patented technology delivers twice the power in half the space, while yielding one third more efficiency than other available products. Our unique design delivers unmatched benefits where small space packaging, minimum heat dissipation and high efficiency are required.

TWICE THE POWER IN HALF THE SPACE

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With an overall height of 1.25" and a 3"x 5" footprint, the XL125 Series is ideally suited to OEMs using the industry standard thin "1U" chassis style. N2Power's smaller and more efficient power supplies provide the designer with additional "real estate" for increased functionality, reduced thermal loads and costs, and an increased competitive edge in the market.

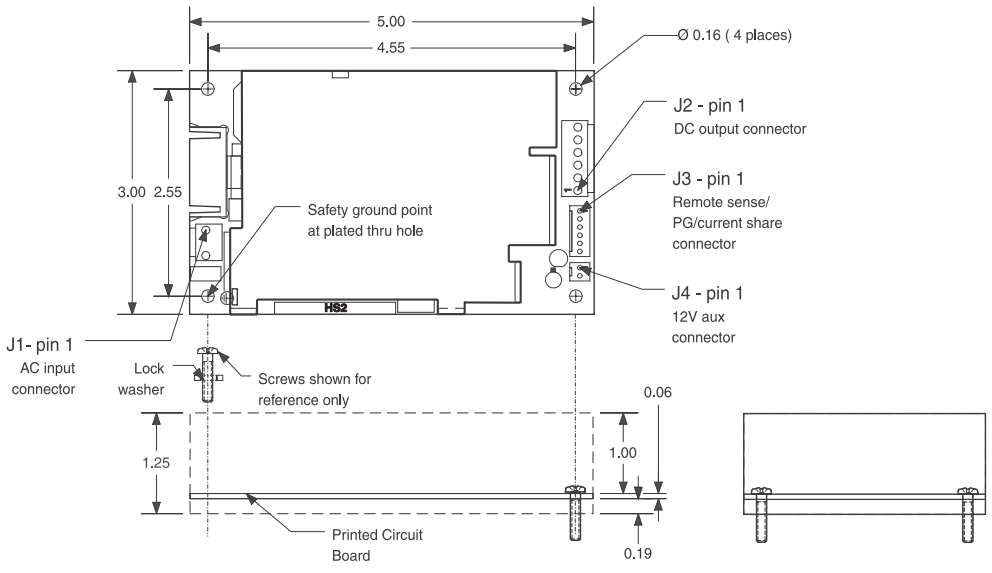
LESS IS MORE

The XL125 Series can provide over 90% efficiency in an AC-DC power supply. N2Power's unique design captures unused energy and generates less wasted heat, thereby reducing the need for forced air cooling, lowering AC loads and providing more reliable and ultimately more economical operation. Components of the power supply are reduced in size and the MTBF is increased.

Typical Mechanical Drawing:

Connectors and pinouts may vary based on model.

For complete specifications on all models, please visit our website at: ***www.N2Power.com***



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PFC READY, GRID FRIENDLY

European countries already require Power Factor Corrected (PFC) power supplies, which lessen the load on the grid. N2Power products incorporate PFC throughout the range of available line voltages and, through judicious design and packaging, provide maximum efficiency in each unit. Comparisons of power loading show that our supplies reduce consumption by 50%, actually paying for themselves in less than six months of operation.

QUALITY DESIGNED IN

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. Detailed statistical production records are maintained and rigid AVL control brings you the highest quality product available.

Each power supply is also rigorously tested by UL, CSA, and TUV, with scheduled follow-on audits to ensure ongoing compliance.

PROBLEMS SOLVED

For ultra small, high efficiency, competitively priced power supplies, choose the XL125 Series from N2Power.

GENERAL SPECIFICATIONS

INPUT SPECIFICATIONS	
Input Voltage	90 - 264 VAC
Input Frequency	47 - 63 Hz
Input Current	max 1.8 A @ 90 VAC
Fuse	on board 3.15 A, 250 VAC
Safety Isolation	3000 VAC RMS per IEC950
Leakage Current	<750 µA

OPERATING SPECIFICATIONS			
Efficiency*	>90%	Storage Temperature	Ð40 to +85¡ C
Hold up Time	>28 mS at all AC input voltages and 100% load	MTBF	>220,000 hours
Inrush Current	24 A @ 115 VAC	EMI (conducted)	FCC, EN55022-B
Dielectric Withstand Voltage	1500 VAC Input-Chassis 3000 VAC Input-Output	Safety Agencies	UL1950, EN60950
		Cooling	5CFM forced air
		Power Good Signal	100 - 500 mS to logic high; <1 mS to logic low
Operating Temperature	Ð25 to +70¡ C		

*Model Dependent: See Product Specifications.

OUTPUT SPECIFICATIONS

MODEL	NOTE	MULTIPLE OUTPUT MODELS					DUAL OUTPUT MODELS					
		+2.5 VDC	+3.3 VDC	+5 VDC	+12 VDC	-12 VDC	5 VDC	12 VDC	+15 VDC	+24 VDC	+48 VDC	AUX 12 VDC
Regulation		±3%	±3%	±4%	±5%	±5%	±3%	±3%	±3%	±3%	±3%	5%
Ripple & Noise		50 mV	50 mV	50 mV	120 mV	120 mV	50 mV	120 mV	120 mV	120 mV	120 mV	120 mV
OVP		3.3 V	4.3 V	6.3 V			6.3 V	15.0 V	18.0 V	30.0 V	60.0 V	
XL125-1	1, 2		10.0 A	15.0 A	5.0 A	0.5 A						
XL125-2	2, 3						25 A					0.5 A
XL125-3	2, 3							10.4 A				0.5 A
XL125-4	2, 3								8.3 A			0.5 A
XL125-5	2, 3									5.2 A		0.5 A
XL125-6	2, 3										2.6 A	0.5 A
XL125-7	1, 2	12.5 A		15.0 A	5.0 A	0.5 A						
XL125-8	1, 2			16.5 A	5.0 A	0.5 A						

1. Max 80 W from combined +2.5 V, +3.3 V or +5 VDC outputs with 5 CFM forced air, 45 W with natural convection.
2. 5 W minimum load required to maintain regulation.
3. Current sharing for N+1 redundancy available on the main output.

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For complete specifications on all models, please visit our website at: www.N2Power.com

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