

N2Power XR125 RE AC-DC Series Ultrasmall, High Efficiency Power Supplies

HIGHLIGHTS

- 125 W AC-DC
- Up to 91% efficiency
- High power density: 6.7 W / cu in.
- Universal AC input
- Active PFC (90-264 VAC)
- Built in OR-ing Diode/MOSFET for N+1 (Optional)
- Single wire current sharing (most models)
- Small footprint: 3" X 5"
- <1U High: 1.32"
- 5 Vsb @ 1amp & remote enable on all models
- No load operation
- RoHS compliant
- 3 year warranty

SAVE ENERGY WITH PFC

All XR125 RE products incorporate active PFC technology with universal input to provide superior efficiency in each supply. Comparisons of power loading show that our supplies can reduce consumption up to 50%.

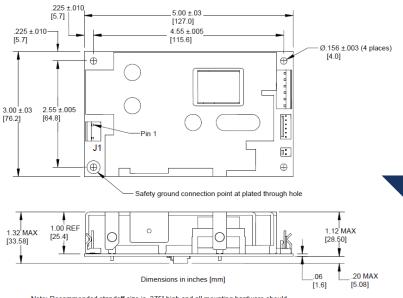
UNMATCHED POWER DENSITY

With an overall height of 1.32" and a 3" × 5" footprint, the XR125 RE series boasts a power density of 6.7 watts per cubic inch. It is ideally suited for OEMs using industry standard 1U chassis. Additionally, most models come standard with market leading built-in technology for active Intelligent current sharing and an Or-ing Diode/Mosfet for N+1 (up to 4).

A POWER SUPPLY DESIGN LEADER

TYPICAL MECHANICAL DRAWING:

Inches (millimeters), connectors, and pinouts may vary with model. Refer to XR125 Product Specification for complete information.



Note: Recommended standoff size is .375" high and all mounting hardware should be less than .28" in diameter. A standoff less than .375" high is acceptable when a thin insulator, 0.4mm thick (polyester, fish paper or equivalent UL rated 94V-2 minimum) is placed between the XR125 and the mounting chassis (refer to applicable UL standard for clearance requirements). **N2Power** leads the power density race with its high efficiency XR125 RE AC-DC power supplies, which provide up to 91% 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.



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MODEL	PART NUMBER	OUTPUT	VOLTAGE	REGULATION (%)	MAXIMUM CURRENT (A)	RIPPLE & NOISE (P-P)
XR125-03 RE XR125-03 CS RE	400168-03-5 400168-04-3	V1	3.3	±3	32.0	30 mV
		V2	12	±5	1.0	120 mV
		V3	5sb	±5	1.0	50 mV
XR125-05 RE XR125-05 CS RE	400165-03-1 400165-04-9	V1	5	±3	25.0	50 mV
		V2	12	±5	1.0	120 mV
		V3	5sb	±5	1.0	50 mV
XR125-07 CS RE	400166-02-1	V1	7	±3	17.9	70 mV
		V2	12	±5	1.0	120 mV
		V3	5sb	±5	1.0	50 mV
XR125-08 CS RE	400167-02-9	V1	8	±3	15.6	80 mV
		V2	12	±5	1.0	120 mV
		V3	5sb	±5	1.0	50 mV
XR125-12 RE XR125-12 CS RE	400155-03-2 400155-04-0	V1	12	±3	10.5	120 mV
		V2	12	±5	1.0	120 mV
		V3	5sb	±5	1.0	50 mV
XR125-15 RE XR125-15 CS RE	400156-03-0 400156-04-8	V1	15	±3	8.3	150 mV
		V2	12	±5	1.0	120 mV
		V3	5sb	±5	1.0	50 mV
XR125-19 CS RE	400157-02-0	V1	19	±3	6.6	190 mV
		V2	12	±5	1.0	120 mV
		V3	5sb	±5	1.0	50 mV
XR125-24 RE XR125-24 CS RE	400158-03-6 400158-04-4	V1	24	±3	5.2	240 mV
		V2	12	±5	1.0	120 mV
		V3	5sb	±5	1.0	50 mV
XR125-28 RE XR125-28 CS RE	400159-03-6 400159-04-2	V1	28	±3	4.5	280 mV
		V2	12	±5	1.0	120 mV
		V3	5sb	±5	1.0	50 mV
XR125-30 RE XR125-30 CS RE	400160-03-2 400160-04-0	V1	30	±3	4.2	300 mV
		V2	12	±5	1.0	120 mV
		V3	5sb	±5	1.0	50 mV
XR125-48 RE XR125-48 CS RE	400161-03-0 400161-04-8	V1	48	±3	2.6	480 mV
		V2	12	±5	1.0	120 mV
		V3	5sb	±5	1.0	50 mV
XR125-51 CS RE	400162-02-0	V1	51	±3	2.5	510 mV
		V2	12	±5	1.0	120 mV
		V3	5sb	±5	1.0	50 mV
XR125-54 RE XR125-54 CS RE	400163-03-6 400163-04-4	V1	54	±3	2.3	540 mV
		V2	12	±5	1.0	120 mV
		V3	5sb	±5	1.0	50 mV
XR125-56 RE XR125-56 CS RE	400164-03-4 400164-04-2	V1	56	±3	2.2	560 mV
		V2	12	±5	1.0	120 mV
		V3	5sb	±5	1.0	50 mV

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.

CS = Current Sharing, plus an OR-ing diode/MOSFET on V1 output.

RE = Remote Enable, turns V1 / V2 outputs on/off.

sb = standby voltage

Compliance (See Product Spec for additional information):

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

RoHS /

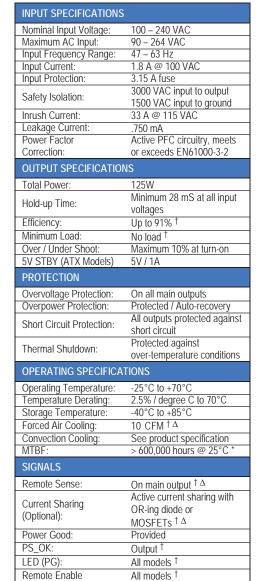
REACH

Contact us regarding custom and modified standard supplies for unique applications. For complete specifications on all models, please visit our website at N2Power.com

All information and specifications are based on our knowledge of the products at the time of printing.

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[†] See Product Specification

 Δ Some Models

* See MTBF Report for additional temperature values

International

IEC 60950-1:2005 (2nd Edition)+ Am1:2009 + Am2:2013 IEC 62368-1:2014 Safety of Information Technology Equipment IEC 61204-3 Class B



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