

# N2Power XR160 AC-DC Series Ultrasmall, High Efficiency Power Supplies

# **HIGHLIGHTS**

- 160 W AC-DC
- Up to 91% efficiency
- High power density: 8.5 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" × 5"
- < 1U High: 1.32"
- No load operation
- RoHS compliant
- 3 year warranty

## SAVE ENERGY WITH PFC

All XR160 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%.

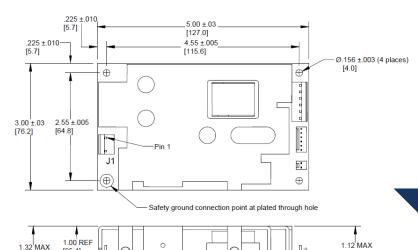
## UNMATCHED POWER DENSITY

With an overall height of 1.32" and a 3" x 5" footprint, the XR160 Series boasts a power density of 8.5 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).

# POWER SUPPLY DESIGN LEADER

### TYPICAL MECHANICAL DRAWING:

Inches (millimeters), connectors, and pinouts may vary with model. Refer to XR160 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 XR160 and the mounting chassis (refer to applicable UL standard for clearance requirements).

Dimensions in inches [mm]

N2Power leads the power density race with its high efficiency XR160 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.



20 MAX











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



Call 805.583.7744

N2Power.com Rev051520

Continued on back...



# N2Power XR160 AC-DC Series Ultrasmall, High Efficiency Power Supplies

MODEL	PART NUMBER	OUTPUT	VOLTAGE	REGULATION (%)	MAXIMUM CURRENT (A)	RIPPLE & NOISE (P-P)
XR160-1	400125-01-9	V1	3.3	±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
	400126-01-7	V1	2.5	±3	15.0	50 mV
XR160-7		V2	5	±4	20.0	50 mV
		V3	12	±5	6.0	120 mV
		V4	-12	±5	1.0	120 mV
XR160-8	400127-01-5	V2	5	±5	20.0	50 mV
		V3	12	±5	6.0	120 mV
		V4	-12	±5	1.0	120 mV
XR160-05 CS	400140-02-6	V1	5	±3	32.0	50 mV
		V2	12	±5	1.0	120 mV
VP400 07 00	400141-01-6	V1	7	±3	22.8	70 mV
XR160-07 CS		V2	12	±5	1.0	120 mV
VP400 00 00	400142-01-4	V1	8	±3	20.0	80 mV
XR160-08 CS		V2	12	±5	1.0	120 mV
XR160-12	400130-01-9	V1	12	±3	13.3	120 mV
XR160-12 CS	400130-02-7	V2	12	±5	1.0	120 mV
XR160-15	400131-01-7	V1	15	±3	10.7	150 mV
XR160-15 CS	400131-02-5	V2	12	±5	1.0	120 mV
XR160-19 CS	400132-01-5	V1	19	±3	8.4	190 mV
		V2	12	±5	1.0	120 mV
XR160-24	400133-01-3	V1	24	±3	6.7	240 mV
XR160-24 CS	400133-02-1	V2	12	±5	1.0	120 mV
XR160-28	400134-01-1	V1	28	±3	5.7	280 mV
XR160-28 CS	400134-02-9	V2	12	±5	1.0	120 mV
XR160-30	400135-01-8	V1	30	±3	5.3	300 mV
XR160-30 CS	400135-02-6	V2	12	±5	1.0	120 mV
XR160-48	400136-01-6	V1	48	±3	3.3	480 mV
XR160-48 CS	400136-02-4	V2	12	±5	1.0	120 mV
VD400 F4 00	400137-01-4	V1	51	±3	3.1	510 mV
XR160-51 CS		V2	12	±5	1.0	120 mV
XR160-54	400138-01-2	V1	54	±3	2.9	540 mV
XR160-54 CS	400138-02-0	V2	12	±5	1.0	120 mV
XR160-56	400139-01-0	V1	56	±3	2.8	560 mV
XR160-56 CS	400139-02-8	V2	12	±5	1.0	120 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

Nominal Input Voltage: 100 − 240 VAC  Maximum AC Input: 90 − 264 VAC  Input Frequency Range: 47 − 63 Hz  Input Current: 2.2 A @ 100 VAC  Input Protection: 3.15 A fuse  Safety Isolation: 1500 VAC input to output 1500 VAC input to ground  Inrush Current: 33 A @ 115 VAC  Leakage Current: .750 mA  Power Factor Active PFC circuitry, meets or exceeds EN61000-3-2  OUTPUT SPECIFICATIONS  Total Power: 160W  Hold-up Time: Minimum 22 mS at all input voltages  Efficiency: Up to 90% †  Minimum Load: No load †  Over / Under Shoot: Maximum 10% at turn-on  PROTECTION  Overyoltage Protection: On all main outputs  Overpower Protection: Protected / Auto-recovery  All outputs protected against over temperature conditions  OPERATING SPECIFICATIONS  Operating Temperature: -25°C to +70°C  Temperature Derating: 2.5% / degree C to 70°C  Storage Temperature: -40°C to +85°C  Forced Air Cooling: 10 CFM † △  Convection Cooling: See product specification  MTBF: > 600,000 hours @ 25°C *  SIGNALS  Remote Sense: On main output † △  Active current sharing with OR-ing diode or MOSFETs † △  Power Good: Provided  PS_OK: Output †  All models †	INDUT OPEQUEIOATIONS			
Maximum AC Input:       90 − 264 VAC         Input Frequency Range:       47 − 63 Hz         Input Current:       2.2 A @ 100 VAC         Input Protection:       3.15 A fuse         Safety Isolation:       3000 VAC input to output to ground         Inrush Current:       33 A @ 115 VAC         Leakage Current:       .750 mA         Power Factor       Active PFC circuitry, meets or exceeds EN61000-3-2         Correction:       Maximum 22 mS at all input voltages         Efficiency:       Up to 90% †         Minimum Load:       No load †         Over / Under Shoot:       Maximum 10% at turn-on         PROTECTION         Overylating Protection:       On all main outputs         Overpower Protection:       Protected / Auto-recovery         All outputs protected against short circuit       Protected against over temperature conditions         OPERATING SPECIFICATIONS       Operating Temperature:       -25°C to +70°C         Temperature Derating:       2.5% / degree C to 70°C         Storage Temperature:       -40°C to +85°C         Forced Air Cooling:       See product specification         MTBF:       > 600,000 hours @ 25°C *         SIGNALS       Active current sharing with OR-ing diode or MOSFETs † Δ         Power	INPUT SPECIFICATIONS			
Input Frequency Range: 47 – 63 Hz Input Current: 2.2 A @ 100 VAC Input Protection: 3.15 A fuse  Safety Isolation: 3000 VAC input to output 1500 VAC input to ground Inrush Current: 33 A @ 115 VAC  Leakage Current: .750 mA  Power Factor Active PFC circuitry, meets or exceeds EN61000-3-2  OUTPUT SPECIFICATIONS  Total Power: 160W  Hold-up Time: Minimum 22 mS at all input voltages  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  All outputs protected against short circuit  Thermal Shutdown: Protected against over temperature conditions  OPERATING SPECIFICATIONS  Operating Temperature: -25°C to +70°C  Temperature Derating: 2.5% / degree C to 70°C  Storage Temperature: -40°C to +85°C  Forced Air Cooling: 10 CFM † △  Convection Cooling: See product specification  MTBF: > 600,000 hours @ 25°C *  SIGNALS  Remote Sense: On main output † △  Active current sharing with OR-ing diode or MOSFETs † △  Power Good: Provided  PS_OK: Output †				
Input Current:  Input Protection:  Safety Isolation:  Safety Isolation:  Safety Isolation:  Inrush Current:  Leakage Current:  Power Factor Correction:  Correction:  Hold-up Time:  Efficiency:  Up to 90% †  Minimum Load:  Over / Under Shoot:  Maximum 10% at turn-on  PROTECTION  Coverpower Protection:  Thermal Shutdown:  Thermal Shutdown:  Torentary Temperature:  Operating Temperature:  Protected Air Cooling:  Convection Cooling:  Remote Sense:  Current Sharing (Optional):  Prower Good:  Provided PS_OK:  Over Gurcuit provedid Safe Age 100 VAC  Input to output to output 1500 VAC  Input to output to output 1500 VAC  Input to output to output to output to or exceeds EN61000-3-2  OVAC input to output to output to prove exceeds EN61000-3-2  OVERATING SPECIFICATIONS  On all main outputs  Protected / Auto-recovery  All outputs protected against short circuit  Protected against over temperature conditions  OPERATING SPECIFICATIONS  Operating Temperature:  -25°C to +70°C  Storage Temperature:  -40°C to +85°C  Forced Air Cooling:  On main output † △  Active current sharing with OR-ing diode or MOSFETs † △  Power Good:  Provided  PS_OK:  Output †				
Input Protection:  Safety Isolation:  Safety Isolation:  Inrush Current:  Leakage Current:  Deakage Current:  Intelligent Protection:  Total Power:  Hold-up Time:  Efficiency:  Up to 90% †  Minimum Load:  Over / Under Shoot:  Maximum 10% at turn-on  PROTECTION  Overyoltage Protection:  Thermal Shutdown:  Thermal Shutdown:  Departing Temperature:  Operating Temperature:  Intelligent Protection:  Temperature Derating:  Convection Cooling:  Remote Sense:  Current Sharing (Optional):  Prover Good:  Prover Good:  Proved  All Output ↑  Active PFC circuitry, meets or exceeds EN61000-3-2  Minimum 22 mS at all input voltages  Minimum 22 mS at all input voltages  Efficiency:  Up to 90% ↑  Minimum 10% at turn-on  Maximum 10% at turn-on  Protected / Auto-recovery  All outputs protected against short circuit  Protected against over temperature conditions  OPERATING SPECIFICATIONS  Operating Temperature:  -25°C to +70°C  Storage Temperature:  -40°C to +85°C  Forced Air Cooling:  Convection Cooling:  See product specification  MTBF:  > 600,000 hours @ 25°C *  SIGNALS  Remote Sense:  On main output ↑△  Active current sharing with OR-ing diode or MOSFETs ↑△  Power Good:  Provided  PS_OK:  Output ↑	Input Frequency Range:			
Safety Isolation:    Safety Isolation:   3000 VAC input to output   1500 VAC input to ground	Input Current:	2.2 A @ 100 VAC		
Inrush Current:  Inrus	Input Protection:			
Inrush Current: 33 A @ 115 VAC  Leakage Current: .750 mA  Power Factor	Safety Isolation:	1500 VAC input to ground		
Power Factor Correction:         Active PFC circuitry, meets or exceeds EN61000-3-2           OUTPUT SPECIFICATIONS           Total Power:         160W           Hold-up Time:         Minimum 22 mS at all input voltages           Efficiency:         Up to 90% †           Minimum Load:         No load †           Over / Under Shoot:         Maximum 10% at turn-on           PROTECTION           Overyoltage Protection:         On all main outputs           Overpower Protection:         Protected / Auto-recovery           All outputs protected against short circuit         Protected against over temperature conditions           OPERATING SPECIFICATIONS           Operating Temperature:         -25°C to +70°C           Temperature Derating:         2.5% / degree C to 70°C           Storage Temperature:         -40°C to +85°C           Forced Air Cooling:         10 CFM † △           Convection Cooling:         See product specification           MTBF:         > 600,000 hours @ 25°C *           SIGNALS         Remote Sense:         On main output † △           Current Sharing (Optional):         OR-ing diode or MOSFETs † △           Power Good:         Provided           PS_OK:         Output †	Inrush Current:	33 A @ 115 VAC		
Correction: or exceeds EN61000-3-2  OUTPUT SPECIFICATIONS  Total Power: 160W  Hold-up Time: Minimum 22 mS at all input voltages  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  All outputs protected against short circuit  Protected against over temperature conditions  OPERATING SPECIFICATIONS  Operating Temperature: -25°C to +70°C  Temperature Derating: 2.5% / degree C to 70°C  Storage Temperature: -40°C to +85°C  Forced Air Cooling: 10 CFM ↑ △  Convection Cooling: See product specification  MTBF: > 600,000 hours @ 25°C *  SIGNALS  Remote Sense: On main output ↑ △  Active current sharing with OR-ing diode or MOSFETs ↑ △  Power Good: Provided  PS_OK: Output ↑	Leakage Current:			
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Hold-up Time:    Minimum 22 mS at all input voltages	OUTPUT SPECIFICATION	IS		
Efficiency:  Winimum Load:  Over / Under Shoot:  Maximum 10% at turn-on  PROTECTION  Overyoltage Protection:  Overpower Protection:  Short Circuit Protection:  Thermal Shutdown:  Protected against over temperature conditions  Operating Temperature:  -25°C to +70°C  Temperature Derating:  Storage Temperature:  -40°C to +85°C  Forced Air Cooling:  Convection Cooling:  MTBF:  Signals  Remote Sense:  On main output † △  Active current sharing (Optional):  Power Good:  Ps_OK:  Over Jupt 90% †  Maximum 10% at turn-on  Protected / Auto-recovery  All outputs protected against over temperature conditions  Protected against over temperature conditions  10 CFR 7°C  -40°C to +85°C  Forced Air Cooling:  10 CFM † △  Convection Cooling:  See product specification  MTBF:  > 600,000 hours @ 25°C *  SIGNALS  Remote Sense:  On main output † △  Active current sharing with OR-ing diode or MOSFETs † △  Provided  PS_OK:  Output †	Total Power:			
Minimum Load:       No load $^{\dagger}$ 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         Protected against over temperature conditions         OPERATING SPECIFICATIONS         Operating Temperature:       -25°C to +70°C         Temperature Derating:       2.5% / degree C to 70°C         Storage Temperature:       -40°C to +85°C         Forced Air Cooling:       10 CFM $^{\dagger}$ $^{\Delta}$ Convection Cooling:       See product specification         MTBF:       > 600,000 hours @ 25°C *         SIGNALS         Remote Sense:       On main output $^{\dagger}$ $^{\Delta}$ Current Sharing (Optional):       OR-ing diode or MOSFETs $^{\dagger}$ $^{\Delta}$ Power Good:       Provided         PS_OK:       Output $^{\dagger}$	Hold-up Time:			
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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 +70°C         Temperature Derating:       2.5% / degree C to 70°C         Storage Temperature:       -40°C to +85°C         Forced Air Cooling:       10 CFM † Δ         Convection Cooling:       See product specification         MTBF:       > 600,000 hours @ 25°C *         SIGNALS         Remote Sense:       On main output † Δ         Current Sharing (Optional):       OR-ing diode or MOSFETs † Δ         Power Good:       Provided         PS_OK:       Output †	Minimum Load:	No load †		
Overvoltage Protection: Overpower Protection: Short Circuit Protection:  Thermal Shutdown:  Operating Temperature: Temperature Derating: Convection Cooling:  Convection Cooling	Over / Under Shoot:	Maximum 10% at turn-on		
	PROTECTION			
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$\begin{array}{c} \text{Short circuit} \\ \text{Thermal Shutdown:} \\ \hline \\ \text{CPERATING SPECIFICATIONS} \\ \hline \\ \text{Operating Temperature:} \\ \text{-25°C to +70°C} \\ \hline \\ \text{Temperature Derating:} \\ \text{2.5\% / degree C to 70°C} \\ \hline \\ \text{Storage Temperature:} \\ \text{-40°C to +85°C} \\ \hline \\ \text{Forced Air Cooling:} \\ \text{Convection Cooling:} \\ \text{See product specification} \\ \hline \\ \text{MTBF:} \\ \text{> 600,000 hours @ 25°C *} \\ \hline \\ \text{SIGNALS} \\ \hline \\ \text{Remote Sense:} \\ \hline \\ \text{Current Sharing (Optional):} \\ \hline \\ \text{Power Good:} \\ \hline \\ \text{Provided} \\ \hline \\ \text{OR-ing diode or MOSFETs }^{\dagger} \triangle \\ \hline \\ \text{Output }^{\dagger} \\ \hline \\ \text{Output }^{\dagger} \\ \hline \\ \hline \\ \text{Output }^{\dagger} \\ \hline \\ \text{Output }^{\dagger} \\ \hline \\ \hline \\ \text{Output }^{\dagger} \\ \hline \\ \hline \\ \text{Output }^{\dagger} \\ \hline \\ \\ \text{Output }^{\dagger} \\ \hline \\ \\ \text{Output }^{\dagger} \\ \hline \\ \\ \text{Output }^{\dagger} \\ \hline \\ \\ \text{Output }^{\dagger} \\ \hline \\ \\ \text{Output }^{\dagger} \\ \hline \\ \\ \text{Output }^{\dagger} \\ $	Overpower Protection:			
temperature conditions  OPERATING SPECIFICATIONS  Operating Temperature: -25°C to +70°C  Temperature Derating: 2.5% / degree C to 70°C  Storage Temperature: -40°C to +85°C  Forced Air Cooling: 10 CFM $^{\dagger}$ $^{\Delta}$ Convection Cooling: See product specification  MTBF: > 600,000 hours @ 25°C *  SIGNALS  Remote Sense: On main output $^{\dagger}$ $^{\Delta}$ Active current sharing with OR-ing diode or MOSFETs $^{\dagger}$ $^{\Delta}$ Power Good: Provided  PS_OK: Output $^{\dagger}$	Short Circuit Protection:	short circuit		
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	Operating Temperature:	-25°C to +70°C		
Forced Air Cooling: 10 CFM $^{\dagger}\Delta$ Convection Cooling: See product specification MTBF: > 600,000 hours @ 25°C *  SIGNALS  Remote Sense: On main output $^{\dagger}\Delta$ Current Sharing (Optional): Active current sharing with OR-ing diode or MOSFETs $^{\dagger}\Delta$ Power Good: Provided PS_OK: Output $^{\dagger}$	Temperature Derating:			
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Current Sharing (Optional):  Power Good:  PS_OK:  Active current sharing with OR-ing diode or MOSFETs $^{\dagger}\Delta$ Provided  Ps_OK:  Output $^{\dagger}$				
(Optional):         MOSFETs † △           Power Good:         Provided           PS_OK:         Output †	Remote Sense:	On main output † △		
Power Good: Provided PS_OK: Output †		Active current sharing with		
PS_OK: Output †	Current Sharing	Active current sharing with OR-ing diode or		
	Current Sharing (Optional):	Active current sharing with OR-ing diode or MOSFETs $^{\dagger}$ $^{\Delta}$		
LED (PG): All models †	Current Sharing (Optional):  Power Good:	Active current sharing with OR-ing diode or MOSFETs † $^{\Delta}$ Provided		
	Current Sharing (Optional):  Power Good: PS_OK:	Active current sharing with OR-ing diode or MOSFETs † $\Delta$ Provided Output †		

<sup>†</sup> See product specification

### 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

### 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

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. N2Power reserves the right to change specifications without notice.













 $<sup>\</sup>Delta$  some models

<sup>\*</sup> See MTBF Report for additional temperature values