



- 280W AC-DC
- 3" x 5.3" footprint
- Up to 90% efficiency
- High power density: over 13W / cu in.
- All outputs may be paralleled
- Remote on/off
- 5V standby output (1A)
- 12V aux output (1A)
- Universal AC input
- Active PFC (90 264VAC)
- Active current sharing for N, N+1
- Active inrush current protection
- RoHS compliant
- POE compliant (54V and 56V models)



Power Supply Design Leader

N2Power leads the power density race with its high efficiency XL280 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 1.43" and a 3" x 5.3" footprint, the XL280 Series boasts a power density over 13 watts per cubic inch. It is ideally suited for OEMs using the industry standard 1U chassis.

High Efficiency in a Small Package

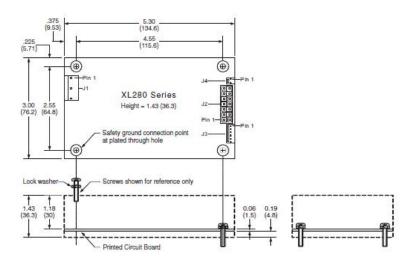
The XL280 Series provides up to 90% efficiency. Our unique design reduces energy consumption and generates less wasted heat. It requires little forced air cooling, decreases AC power consumption, increases reliability and economy of operation. Comparisons of efficiencies show that our supplies can reduce losses up to 50%.

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. When AC input power is lost it provides the host system with advanced warning of an impending shutdown.

Typical Mechanical Drawing:

Inches (millimeters), refer to XL280 Product Specification for complete information.

















N2POWER XL280 AC-DC SERIES ULTRA SMALL, HIGH-EFFICIENCY POWER SUPPLY

MODEL	PART NUMBER	OUTPUT	VOLTAGE	REGULATION (%)	MAXIMUM CURRENT (A)	RIPPLE & NOISE (P-P)
		V1	12	±3	23.3	120 mV
XL280-12	400082-01-2	V2	12	±5	5.0	120 mV
XL280-12 CS	400081-01-4	V3	12	±5	1.0	120 mV
		V4	5sb	±5	1.0	50 mV
		V1	24	±3	11.7	240 mV
XL280-24 XL280-24 CS	400082-02-0 400081-02-2	V2	12	±5	5.0	120 mV
		V3	12	±5	1.0	120 mV
		V4	5sb	±5	1.0	50 mV
		V1	48	±3	5.8	480 mV
XL280-48	400082-03-4	V2	12	±5	5.0	120 mV
XL280-48 CS	400081-03-0	V3	12	±5	1.0	120 mV
		V4	5sb	±5	1.0	50 mV
		V1	54	±3	5.2	540 mV
XL280-54 XL280-54 CS	400082-04-6 400081-04-8	V2	12	±5	5.0	120 mV
		V3	12	±5	1.0	120 mV
		V4	5sb	±5	1.0	50 mV

Compliance:

XL280-56

XL280-56 CS

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)

400082-05-3

400081-05-5

EMC: FCC part 15, subpart B

Europe:

12

12

5sb

V2

V3

V4

2006/95/EC - "Low Voltage (Safety) Directive"

±5

±5

±5

Demko: EN 60950-1:2006 + A11:2009 (2nd Edition) EN 62368-1:2014 / A11:2017

2004/108/EC "Electromagnetic Compatibility (EMC) Directive"

EN 61204-3 Class B

International:

5.0

1.0

1.0

IEC 60950-1:2005 (2nd Edition) EN 62368-1:2014 / A11:2017 Safety of Information Technology Equipment

560 mV 120 mV

120 mV

50 mV

IEC 61204-3 Class B

Nominal Input Voltage: 100 – 240 VAC Tested Input Limits: 90 – 264 VAC Input Frequency Range: 47 – 63 Hz Input Current: 3.5 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/60Hz Power Factor Active PFC circuitry, meets or exceeds EN61000-3-2 OUTPUT SPECIFICATIONS Total Output: 280 W Output Voltages: 12 to 56 V Hold-up Time: Minimum 22 ms Efficiency: Up to 90% Minimum Load: No load Over / Under Shoot: Max 10% at turn-on Output Isolation For POE PROTECTION Input Protection: 5 A fuse Overvoltage Protection: V1 (latches off) Overpower Protection: Auto-recovery Short Circuit Protection: Auto recovery Thermal Shutdown: Auto recovery ENVIRONMENTAL SPECIFICATIONS Operating Temperature: -25 to +50°C Temperature Derating: 50°C to 70°C Storage Temperature: -40 to +85°C Forced Air Cooling: 10 CFM minimum Convection Cooling: See Specification MTBF: 546,464 hours @ 25°C SIGNALS Remote Sense V1 and Return Current Sharing V1 using active circuitry V2 and V3 outputs may be wire OR-ed Power Good (PG) Output High-true CMOS logic Low-true input enables V1, V2, V3 output	INPUT SPECIFICATIONS					
Input Frequency Range: 47 – 63 Hz Input Current: 3.5 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/60Hz Power Factor Active PFC circuitry, meets or exceeds EN61000-3-2 OUTPUT SPECIFICATIONS Total Output: 280 W Output Voltages: 12 to 56 V Hold-up Time: Minimum 22 ms Efficiency: Up to 90% Minimum Load: No load Over / Under Shoot: Max 10% at turn-on Output Isolation For POE PROTECTION Input Protection: 5 A fuse Overvoltage Protection: Auto-recovery Short Circuit Protection: Auto recovery Thermal Shutdown: Auto recovery ENVIRONMENTAL SPECIFICATIONS Operating Temperature: -25 to +50°C Temperature Derating: 50°C to 70°C Storage Temperature: -40 to +85°C Forced Air Cooling: 10 CFM minimum Convection Cooling: See Specification MTBF: 546,464 hours @ 25°C SIGNALS Remote Sense V1 and Return Current Sharing V1 using active circuitry V2 and V3 outputs may be wire OR-ed Power Good (PG) Output Remote Enable Input Remote Input enables	Nominal Input Voltage:	100 – 240 VAC				
Input Current: Safety Isolation: 3.5 A @ 100 VAC 3000 VAC in to out 1500 VAC in to ground Inrush Current: 14 A @ 240 VAC Leakage Current: 0.75 mA @240 VAC/60Hz Power Factor Correction: Output SPECIFICATIONS Total Output: 280 W Output Voltages: 12 to 56 V Hold-up Time: Minimum 22 ms Efficiency: Up to 90% Minimum Load: No load Over / Under Shoot: Max 10% at turn-on Output Isolation For POE PROTECTION Input Protection: Overvoltage Protection: V1 (latches off) Overpower Protection: Auto recovery Short Circuit Protection: Auto recovery Thermal Shutdown: Auto recovery ENVIRONMENTAL SPECIFICATIONS Operating Temperature: -25 to +50°C Temperature Derating: Sor 25% / degree 50°C to 70°C Storage Temperature: -40 to +85°C Forced Air Cooling: To CFM minimum Convection Cooling: See Specification MTBF: 546,464 hours @ 25°C SIGNALS Remote Sense V1 and Return Current Sharing V1 using active circuitry V2 and V3 outputs may be wire OR-ed High-true CMOS logic Low-true input enables	Tested Input Limits:	90 – 264 VAC				
Safety Isolation: 3000 VAC in to out	Input Frequency Range:	47 – 63 Hz				
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MTBF: 546,464 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 Remote Fnable Input Low-true input enables	Forced Air Cooling:	10 CFM minimum				
Remote Sense Current Sharing Passive Redundancy Power Good (PG) Output Remote Fnable Input V1 and Return V2 and V3 outputs may be wire OR-ed High-true CMOS logic Low-true input enables	Convection Cooling:	See Specification				
Remote Sense Current Sharing Passive Redundancy Power Good (PG) Output Remote Fnable Input V1 using active circuitry V2 and V3 outputs may be wire OR-ed High-true CMOS logic Low-true input enables	MTBF:	546,464 hours @ 25°C				
Current Sharing Passive Redundancy Power Good (PG) Output Remote Fnable Input V1 using active circuitry V2 and V3 outputs may be wire OR-ed High-true CMOS logic Low-true input enables	SIGNALS					
Passive Redundancy Power Good (PG) Output Remote Fnable Input V2 and V3 outputs may be wire OR-ed High-true CMOS logic Low-true input enables	Remote Sense	V1 and Return				
Power Good (PG) Output Remote Fnable Input be wire OR-ed High-true CMOS logic Low-true input enables	Current Sharing					
Output Low-true input enables	Passive Redundancy					
Remote Enable Input Low-true input enables		High-true CMOS logic				

Every effort has been made to keep the information contained in this document current and accurate as of the date of publication or revision. However, no guarantee is given or implied that the document is error-free or that it is accurate with regard to any specification. N2Power reserves the right to change specifications without notice.

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