



NP SERIES INVERTER/CHARGER 12 Volt Models



Pure
Sine
Wave



Battery
Voltage
Options



Continuous
Output
Options

The pure sine wave Magnum-Dimensions NP Series Inverter/Charger from Sensata Technologies provides choices to fit your specific mobile needs. The 12 VDC models* have output power options ranging from 1200 to 3000 watts and have an external chassis in various sizes. There truly is a model that will work where you need it.

Sine Wave Power: The pure sine wave inverter is built to withstand high output surge demands of motors, pumps, and other tools, while providing high quality power for your sensitive electronic devices.

Model Numbers

- 12NP12
- 12NP15
- 12NP18
- 12NP20
- 12NP24
- 12NP30

The NP Series Inverter/Charger is also available in 24 & 48 volt models.

Available For

- Emergency Medical Services
- Marine Systems
- Military Vehicles
- RV Systems
- Trucks
- Utility Vehicles

FEATURES

Power Factor Corrected

Power factor corrected charging: wet, AGM, and gel

Wide Operating Temperature

Wide operating temperature range from 0 °F to 149 °F

Programmable Charger

Programmable charger AC input current maximum with automatic load management regulation

Comprehensive LED Display

Seven segment LED display with readouts for battery voltage and diagnostics

Automatic Protection

Automatic short circuit, overload, and over-temperature protection

Built-in Relay

Built-in AC bypass relay

Dead Battery Charging

Dead battery charging with a 0 volt minimum start

Cooling Fan

Thermally controlled cooling fan

GFCI

GFCI outlet protection

LED Indicators

LED indication of external power, inverter power, low input voltage, high temperature, and overload

Output Protection

Output circuit breakers

Low Battery Shutdown

Automatic low battery shutdown at 10.5 VDC, with in-rush delay

*The NP Series is also available in 24 and 48 volt models.

NP SERIES INVERTER/CHARGER SPECIFICATIONS – 12 VOLT MODELS



	12NP12	12NP15	12NP18	12NP20	12NP24	12NP30
INVERTER SPECIFICATIONS						
Continuous power output at 25° C	1200 VA	1500 VA	1800 VA	2000 VA	2400 VA	3000 VA
Continuous current (amps AC)	10 AAC	12.5 AAC	15 AAC	16.7 AAC	20 AAC	25 AAC
Input current (amps DC)	Up to 133 ADC	Up to 167 ADC	Up to 188 ADC	Up to 214 ADC	Up to 269 ADC	Up to 315 ADC
Peak power (watts)	2500 W	2500 W	3000 W	4500 W	5500 W	8000 W
Peak current (amps AC)	37 AAC	40 AAC	58 AAC	68 AAC	74 AAC	80 AAC
Motor starting rating (hp)	1/2 hp	1/2 hp	3/4 hp	3/4 hp	1 hp	2 hp
Nominal AC output voltage	120 VAC ± 3%	120 VAC ± 3%	120 VAC ± 3%	120 VAC ± 3%	120 VAC ± 3%	120 VAC ± 3%
Output frequency and accuracy	60 Hz ± 0.05%	60 Hz ± 0.05%	60 Hz ± 0.05%	60 Hz ± 0.05%	60 Hz ± 0.05%	60 Hz ± 0.05%
Input battery voltage range	10.5 - 17 VDC	10.5 - 17 VDC	10.5 - 17 VDC	10.5 - 17 VDC	10.5 - 17 VDC	10.5 - 17 VDC
Inverter efficiency (peak)	88%	88%	88%	88%	88%	88%
Total Harmonic Distortion (THD)	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
Waveform	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
CHARGER SPECIFICATIONS						
AC input voltage range	95 - 135 VAC	95 - 135 VAC	95 - 135 VAC	95 - 135 VAC	95 - 135 VAC	95 - 135 VAC
Input current (amps AC)	Up to 9.7 AAC	Up to 13 AAC	Up to 13.5 AAC	Up to 17 AAC	Up to 17.7 AAC	Up to 23 AAC
Output (amps DC)	Up to 65 ADC	Up to 75 ADC	Up to 95 ADC	Up to 115 ADC	Up to 130 ADC	Up to 150 ADC
BYPASS SPECIFICATIONS						
Transfer relay (amps AC)	20 AAC	20 AAC	20 AAC	30 AAC	30 AAC	30 AAC
Note: bypass relay is rated at 30 amps for all models						
ENVIRONMENTAL SPECIFICATIONS						
Operating temperature	-20° C to +65° C (-4° F to 149° F)					
PHYSICAL SPECIFICATIONS						
Dimensions (l x w x h)	12.2" x 14.6" x 5.8" (30.5 x 37.1 x 14.7 cm)	13.5" x 14.6" x 5.8" (34.3 x 37.1 x 14.7 cm)	12.2" x 14.6" x 5.8" (30.5 x 37.1 x 14.7 cm)	12.2" x 14.6" x 5.8" (30.5 x 37.1 x 14.7 cm)	13.5" x 14.6" x 5.8" (34.3 x 37.1 x 14.7 cm)	14.8" x 17.1" x 8" (37.6 x 43.4 x 20.3 cm)
Weight	40 lb (18.2 kg)	40 lb (18.2 kg)	40 lb (18.2 kg)	40 lb (18.2 kg)	40 lb (18.2 kg)	68 lb (30.9 kg)
GENERAL SPECIFICATIONS						
Listings	Listed to UL/cUL 458 E100666 UL File Number					
Warranty	Five years					



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Testing for specifications at 25° C,
12.6 VDC nominal. Specifications subject to
change without notice.