

# NP SERIES | INVERTER/CHARGER

12 VOLT PURE SINE WAVE POWER

## Introduction

Built to withstand high output surge demands of motors, pumps, and tools, while providing pure sine wave power for your sensitive electronic devices. The NP Series inverter/charger provides choices to fit your specific mobile needs. The 12 VDC models have output power options ranging from 1800 to 3000 watts and have an external chassis in various sizes. There truly is a model that will work where you need it.



## Features

- Battery Profile Presets – Using the included Seven Segment display or the optional remote LCD, easily choose from and set standard battery profiles, including Lithium Iron Phosphate (LFP), Gel, Flooded, and AGM.
- Wide operating temperature range from -40 °F to 149 °F.
- Programmable charger AC input current maximum with automatic load management regulation.
- Built-in AC bypass relay.
- Dead battery charging with a 0 volt minimum start.
- Thermally controlled cooling fan.
- GFCI outlet protection.
- LED indication of external power, inverter power, low input voltage, high temperature, and overload.
- Battery temperature sensor with 40 ft cable included with every unit.

## Options

- H option – AC hardwired output only, no GFCI.
- R option – RJ45 remote jack, no unit mounted Seven Segment Display.

## Model Numbers

- 12NP18
- 12NP18R
- 12NP20
- 12NP20HR
- 12NP20R
- 12NP24
- 12NP30
- 12NP30R

## Available For

- Marine Systems
- Military Vehicles
- RV Systems
- Trucks
- Utility Vehicles

## Available Accessories

- LCD Remote
- Seven Segment Remote
- Battery Temp Sensor (additional lengths)
- Battery Cable Kits
- DC Terminal Kits
- CAN Configuration Tools
- Covers
- GFCI



Pure Sine Wave



12 Battery Voltage Options



1800 - 3000 W Continuous Output Options



# SPECIFICATIONS



	12NP18, 12NP18R	12NP20, 12NP20HR, 12NP20R	12NP24	12NP30, 12NP30R
<b>INVERTER SPECIFICATIONS</b>				
<b>Continuous power output at 25° C</b>	1800 watts	2000 watts	2400 watts	3000 watts
<b>Continuous current (amps AC)</b>	15 AAC	16.7 AAC	20 AAC	25 AAC
<b>Input current (amps DC)</b>	Up to 188 ADC	Up to 214 ADC	Up to 269 ADC	Up to 315 ADC
<b>Peak power (watts)</b>	3000	4500	5500	8000
<b>Peak current (amps AC)</b>	58 AAC	68 AAC	74 AAC	80 AAC
<b>Motor starting rating (hp)</b>	3/4 hp	3/4 hp	1 hp	2 hp
<b>Nominal AC output voltage</b>	120 VAC ± 3%	120 VAC ± 3%	120 VAC ± 3%	120 VAC ± 3%
<b>Output frequency and accuracy</b>	60 Hz ± 0.05%	60 Hz ± 0.05%	60 Hz ± 0.05%	60 Hz ± 0.05%
<b>Input battery voltage range</b>	10.5 - 17 VDC	10.5 - 17 VDC	10.5 - 17 VDC	10.5 - 17 VDC
<b>Inverter efficiency (peak)</b>	88%	88%	88%	88%
<b>Total Harmonic Distortion (THD)</b>	< 5%	< 5%	< 5%	< 5%
<b>Waveform</b>	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
<b>DC Input Capacitance</b>	Up to 160,000uF	Up to 160,000uF	Up to 160,000uF	Up to 160,000uF
<b>CHARGER SPECIFICATIONS</b>				
<b>AC input voltage range</b>	95 - 135 VAC	95 - 135 VAC	95 - 135 VAC	95 - 135 VAC
<b>Input current (amps AC)</b>	Up to 13.5 AAC	Up to 17.7 AAC	Up to 23 AAC	Up to 25 AAC
<b>Output (amps DC)</b>	Up to 95 ADC	Up to 115 ADC	Up to 130 ADC	Up to 150 ADC
<b>BYPASS SPECIFICATIONS</b>				
<b>Transfer relay (amps AC)</b>	30 AAC	30 AAC	30 AAC	30 AAC
<b>ENVIRONMENTAL SPECIFICATIONS</b>				
<b>Operating temperature</b>	-40° C to +65° C (-40° F to 149° F)			
<b>PHYSICAL SPECIFICATIONS</b>				
<b>Dimensions (l x w x h)</b>	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)
<b>Weight</b>	40 lb (18.2 kg)	40 lb (18.2 kg)	40 lb (18.2 kg)	68 lb (30.9 kg)
<b>GENERAL SPECIFICATIONS</b>				
<b>Listings</b>	Listed to UL/cUL 458 UL File Number E100666			
<b>Warranty</b>	Five years			



## GENERAL NOTES

Testing for specifications at 25° C.  
Specifications subject to change without notice.



## AGENCY APPROVALS & CERTIFICATIONS

- Listed to UL/cUL 458 UL File Number E100666

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