



1000 W Modified Sine Wave Inverter/Charger

Weatherproof inverter/charger designed for marine applications

The Xantrex IP1012 AL Inverter/Charger is a safe, clean, quiet alternative to operating a generator or idling an engine to provide power. Ideal for applications in a small boat, or mounted on the frame rail of a heavy duty truck, the Xantrex IP1012 AL Inverter/Charger converts 12-volt DC battery power into 1000 watts of standard 120-volt AC household power. The unit allows the user to operate a small air conditioner, microwave or other appliances, electronics and tools from any dual-purpose battery bank. The built-in 50-amp battery charger quickly recharges batteries to full capacity in three automatic stages when the Xantrex IP1012 AL is connected to shorepower. While the batteries are charging, the system seamlessly feeds shorepower to any AC loads connected to the unit, and manages the incoming power automatically, preventing nuisance tripping of the shorepower breaker.

Certified for ignition protection, the Xantrex IP1012 AL can be safely mounted in the engine compartment of a small gas-powered boat, or in a battery box that's mounted on a vehicle, freeing up valuable interior cabin space. Completely sealed to provide dust and water resistance, the rugged Xantrex IP1012 AL can be mounted in areas exposed to the elements, without damage to the unit.

Product Features

- ▶ 1000-watt continuous output with 3000-watt surge
- ▶ 50-amp automatic three-stage battery charger
- ▶ Temperature-compensated charging provides optimal care of flooded lead-acid batteries
- ▶ Built-in 20-amp transfer switch automatically transfers between inverter power and AC power
- ▶ Ignition-protected for mounting in gas engine compartments
- ▶ Rugged, weatherproof aluminum enclosure
- ▶ Rigorously tested for industrial class vibration, emissions and environmental requirements
- ▶ Similar in size to a Group 31 battery
- ▶ Remote switch control
- ▶ Integrated sensor for temperature compensated charging
- ▶ Weatherproof AC wire harness
- ▶ Two-year warranty

Protection Features

- ▶ Automatic over-temperature and over-current shutdown
- ▶ Intelligent low-voltage cut-out based on 10.6 volt DC threshold

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Electrical Specifications - Inverter

Output power (continuous)	1000 W
Maximum power (surge)	3000 W (36 A peak)
Output frequency regulation	60 +/- 0.1 Hz
Inverter voltage regulation	108 to 125 Vac (full range at 25°C)
Battery voltage range	10.4 - 16 Vdc
Low battery cut-out	10.6 Vdc (heavy loads); 10.8 Vdc (light loads)
Output wave form	Modified sine wave
Efficiency	90%
Peak efficiency	93%
No-load current draw (idle mode)	<650 mAdc
AC transfer switch	20 A

Electrical Specifications - Charger

Charge rate	50 Adc
AC input voltage range	100 - 130 Vac
Battery voltage (nominal)	12 Vdc
AC input (max. charge mode)	13 Aac rms
Absorption charge voltage	14.3 +/- 0.3 Vdc
Float charge voltage	13.3 +/- 0.3 Vdc
Battery charge outputs	1
Charge control	Three-stage
Battery type settings	Flooded or AGM
Equalization	No
Temperature sensitive charging	Yes

General Specifications

Optimal operating temperature range	-40°C to 85°C (-40°F to 185°F). Charger output de-rated above 30°C
Controls	Remote switch
Dimensions (H x W x L)	8.56 x 7.25 x 13.00" (218 x 185 x 330 mm)
Mounting	Externally mounted
Weight	40 lb (18 kg)
Warranty	Two years
Part number	805-1011
Regulatory Compliance	ABYC, Ignition protected, UL458 Marine, IP66 moisture and dust resistant enclosure, SAE J1455, FCC Class B

Note : Specifications subject to change without notice