



1000 W Modified Sine Wave Inverter/Charger

Specifically Designed and Rigorously Tested for Industrial Work Vehicles

A clean and maintenance-free alternative to a generator, the Xantrex RM1024 Weatherproof Inverter/Charger incorporates an industrial grade power inverter that transforms battery power (24 VDC) into 1000 watts of standard household power (120 VAC) so you can operate standard work appliances, electronics and tools from your vehicle's battery system. Its built-in 25 amp battery charger quickly recharges batteries to full capacity in three automatic stages when your vehicle is connected to shorepower. While the batteries are charging, the system seamlessly feeds shorepower to any AC loads connected to the unit.

Compact and rugged, the inverter/charger is designed to withstand exposure to the elements and harsh industrial environments experienced by work vehicles. The system is 100% weatherproof, making it a trouble-free solution for all kinds of conditions on the job site.

Product Features

- ▶ 1000 watt continuous output with 3000 watt surge
- ▶ 25 amp automatic 3-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 incoming AC power
- ▶ Externally mounted
- ▶ Rugged weatherproof aluminum enclosure
- ▶ Rigorously tested for heavy duty vehicle electrical, vibration, emissions and environmental requirements
- ▶ Similar in size to a Group 31 battery
- ▶ Remote switch control
- ▶ Integrated sensor for temperature compensated charging
- ▶ One year warranty

Protection Features

- ▶ Automatic over-temperature and over-current shutdown
- ▶ Intelligent low voltage cut-out based on 21.2 VDC threshold

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Electrical Specifications - Inverter

Output power (continuous)	1000 W
Maximum power (surge)	3000 W (36 amps peak)
Output frequency regulation	60 +/- 0.1 Hz
Inverter voltage regulation	108 to 125 VAC (full range at 25°C)
Battery voltage range	21.2 - 29.0 VDC
Low battery cut-out	21.2 VDC (heavy loads); 21.6 VDC (light loads)
Output wave form	Modified sine wave
Efficiency	90%
Peak efficiency	93%
No load current draw (idle mode)	<650 mA DC
AC transfer switch	20 A

Electrical Specifications - Charger

Charge rate	25 A DC
AC input voltage range	100-130 VAC
Battery voltage (nominal)	24 VDC
AC input (max. charge mode)	13 A AC RMS
Absorption charge voltage	28.6 +/- 0.6 VDC
Float charge voltage	26.8 +/- 0.6 VDC
Battery charge outputs	1
Charge control	3-stage
Battery type settings	Flooded
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" (218 x 185 x 330 mm)
Mounting	Externally mounted
Weight	40 lb (18 kg)
Warranty	One year
Approvals	UL458, Ignition Protected, IP66 moisture resistant enclosure
Part number	805-1024