

MS2000 Sine Wave Inverter/Charger

2000 Watt Sine Wave Inverter/Charger



Powerful, easy-to-use sine wave inverter/chargers featuring an upgradeable design and built-in networking.

MS Inverter/Chargers are simply the most advanced and easy to use on the market. Premium true sine wave output and a high surge capability will power onboard appliances and electronic devices, including navigation equipment, home theatre components, microwaves, power tools, and lights.

A power factor corrected three-stage charger provides long battery life by recharging batteries more quickly, while using less AC power. The stress-tested, UL458 Marine design delivers reliable power in demanding marine conditions. An aluminum chassis, conformal-coated components, and high-temperature operation guarantee long-term trouble-free performance. They also meet strict electromagnetic interference standards designed to minimize interference with radios and other onboard electronics.

MS Inverter/Chargers are Xanbus Enabled, so it's easy to connect network-enabled accessories as well as share power status and diagnostic information with other devices. Xanbus makes power management less complex, while intelligently making the best use of available power resources. The inverter/chargers have built-in flash memory so their software can be upgraded to take advantage of new features and system enhancements.

Product Features

- ▶ 2000 watt inverter (5000 watt surge rating)
- ▶ True sine wave output to power the latest appliances and electronics
- ▶ 100A power factor corrected multi-stage charger for fast, efficient charging
- ▶ Full power output to 122°F (50°C)
- ▶ 10A echo charge recharges auxiliary or starter batteries
- ▶ Power sharing reduces charging current to prevent tripping of AC input breaker
- ▶ Built-in 30A transfer switch automatically transfers between inverter power and incoming AC power
- ▶ Meets UL458 marine standards and FCC Class B regulations
- ▶ Xanbus Enabled with NMEA 2000 compatibility

Protection Features

- ▶ Battery over voltage and under voltage protection
- ▶ Over temperature protection
- ▶ Automatic overload protection
- ▶ Short circuit protection

Xantrex Technology Inc.

Headquarters
8999 Nelson Way
Burnaby, British Columbia
Canada V5A 4B5
800 670 0707 Toll Free
604 420 1591 Fax

5916 195th Northeast
Arlington, Washington
USA 98223
800 446 6180 Toll Free
360 925 5144 Fax



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Electrical Specifications - Inverter

Model	MS2000
Output power (continuous)	2000 W
Surge rating (5 second)	5000 W (42 A)
Output voltage	120 VAC
Output frequency	60 Hz +/-0.05% (crystal controlled)
Output waveform	Sine wave <3% THD
Efficiency (full load)	>87%
Peak efficiency	>92%
No load power draw (inverting)	<48 W
No load power draw (search mode)	<14.4 W
AC transfer switch	30 A

Electrical Specifications - Charger

Output current	100 ADC
Battery voltage (nominal)	12 VDC
Battery voltage range	10.0 – 15.5 VDC
Charge control	3 stage with manual equalize
Charge temperature compensation	Remote battery sensor (included)
Efficiency	85% typical
AC input power factor	0.95
Input current (for 100 A charging)	15 A RMS nominal
AC input voltage	120 VAC nominal
AC input voltage range	90 – 135 VAC
Compatible battery types	Wet/Gel/AGM
Echo-charge output current	10 A

General

Operating temperature range	-4°F – 122°F (-20°C – 50°C)	
Storage temperature range	-40°F – 122°F (-40°C – 50°C)	
Dimensions (H x W x D)	7.5 x 13.25 x 16" (190 x 336 x 406 mm)	
Weight	68.0 lb (30.9 kg)	
Warranty	2 years	
Part Number	809-2010	
Accessories	System Control Panel	809-0910
	Automatic Generator Start	809-0915
	Network Connector	809-0903
	Network Cable 3'	809-0935
	Network Cable 5'	809-0936
	Network Cable 7'	809-0937
	Network Cable 10'	809-0938
	Network Cable 14'	809-0939
	Network Cable 25'	809-0940
	Network Cable 50'	809-0941
	Network Cable 75'	809-0942

Regulatory Approvals

CSA/NRTL certified to CSA 107.1, UL 458 (Marine supplement);

ABYC designed to Marine Standards

FCC Class B/Industry Canada Class

Note: Specifications subject to change without notice.