



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

MS Series Inverter/Chargers are simply the most advanced and easy to use inverters on the market today. Premium true sine wave output and a high surge capacity, powers onboard appliances and electronic devices including:

- ▶ Galley appliances
- ▶ Home theatre components
- ▶ Microwaves
- ▶ Power tools
- ▶ Cell phones and PDA chargers

A power factor corrected three-stage charger provides long battery life by recharging batteries quickly, while using less AC power. The rugged 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. MS Series Inverter/Chargers meet strict electromagnetic standards, designed to minimize interference with radios and other onboard electronics.

MS Series Inverter/Chargers are Xanbus™ enabled, so it's easy to connect network-enabled accessories and share power status and diagnostic information with other devices. Xanbus™ makes power management less complex, while intelligently optimizing available power resources. MS Series 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 or 3000-watt inverter with 250% surge for five seconds
- ▶ True sine wave output to power the latest appliances and electronics
- ▶ 0.95 power factor corrected multi-stage charger for fast, efficient charging
- ▶ Full power output to 122°F (50°C)
- ▶ Power sharing reduces charging current to prevent tripping of AC input breaker
- ▶ Built-in 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 and SmartCraft compatibility
- ▶ Drip shield for UL marine compliance

Protection Features

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



LR 86581
UL 458
CSA 107.1

Xantrex Technology Inc.

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

541 Roske Drive, Suite A
Elkhart, Indiana
USA 46516
800 446 6180 Toll Free
574 294 5989 Fax

www.xantrex.com

2000 and 3000-Watt Sine Wave Inverter/Charger

Electrical Specifications – Inverter

Model	MS2000	MS3000
Output power (continuous)	2000 W	3000 W
Surge rating (5 second)	5000 W (42 A)	7500 W (60 A)
Output voltage	120 Vac	120 Vac
Output frequency	60 Hz + / -0.05% (crystal controlled)	60 Hz + / -0.05% (crystal controlled)
Output waveform	Sine wave < 3% THD	Sine wave < 3% THD
Efficiency (full load)	> 87%	> 85 %
Peak efficiency	> 92%	> 90 %
No-load power draw (search mode)	< 14.4 W	< 20 W
AC transfer switch	30 A	Two legs at 50 A (split phase in), Two legs at 30 A (dual in)

Electrical Specifications – Charger

Output current	100 Adc	150 Adc
Battery voltage (nominal)	12 Vdc	12 Vdc
Battery voltage range	10.0 – 15.5 Vdc	10.0 – 15.5 Vdc
Charge control	3-stage with manual equalize	3-stage with manual equalize
Charge temperature compensation	Remote battery sensor (included)	Remote battery sensor (included)
Efficiency	85% typical	85% typical
AC input power factor	0.95	0.95
Input current (for 100 A charging)	15 Arms nominal	22 Arms (150 A)
AC input voltage	120 Vac nominal	120 Vac nominal
AC input voltage range	90 – 135 Vac	90 – 135 Vac
Compatible battery types	Wet / Gel / AGM	Wet / Gel / AGM
Echo-charge output current	10 A	Not applicable

General Specifications

Operating temperature range	-4°F to 122°F (-20°C to 50°C)	-4°F to 122°F (-20°C to 50°C)
Storage temperature range	-40°F to 122°F (-40°C to 50°C)	-40°F to 122°F (-40°C to 50°C)
Dimensions (H x W x D)	8.17 x 13.25 x 16" (208 x 336 x 406 mm)	8.17 x 13.25 x 16" (208 x 336 x 406 mm)
Weight	68.0 lb (30.9 kg)	70.0 lb (31.8 kg)
Warranty	Two years	Two years
Part Number	809-2010	809-3010

Accessories

System Control Panel	809-0910
Generator Start	809-0915
Network Cable 3'	809-0935
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.

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