



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



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2000 Watt Sine Wave Inverter/Charger

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 | 0 A |

General Specifications

| | | |
|-----------------------------|---|----------|
| 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) | 8.17 x 13.25 x 16" (208 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.