

Prosine 2.0 Inverter/Chargers



2000 Watt True Sine Wave Inverter/Chargers

Provides 2000 watts of true sine wave AC power from a DC source and 100-amp multistage battery charging

A powerful all-in-one solution, Prosine 2.0 inverter/chargers deliver up to 2000 watts of unsurpassed clean true sine wave output power and combines this with a 100 amp, multistage battery charger. Series stackability allows for two units to power 240 VAC applications such as power tools, over ranges, washer/dryer combinations and air conditioner. The system includes a full function LCD remote control panel and battery temperature sensor.

Product Features

- ▶ 2000-watt inverter (4500-watt surge)
- ▶ 100 A power factor corrected multistage charger
- ▶ True sine wave output (crystal controlled)
- ▶ Built-in 30 A transfer switch automatically transfers between inverter power and incoming AC power
- ▶ Series stackability for 120/240 VAC (requires two units)
- ▶ Power sharing reduces charging current when AC loads are activated to prevent tripping of shorepower breaker
- ▶ Equalization mode conditions batteries for longer life
- ▶ Optional GFCI version available
- ▶ LCD remote control panel and temperature sensor included
- ▶ Compact, lightweight, and easy to install
- ▶ Two year warranty

Remote Control Panel

- ▶ Independent inverter and charger on/off controls
- ▶ Push button control of power sharing, equalizing, battery set-up, and system configuration
- ▶ Easy to read backlit digital text messaging display
- ▶ Numerically displays AC and DC system information including volts, amps and state of inverter/charger
- ▶ Monitors battery temperature and adjusts charger to provide an accurate charge in any climate

Protection Features

- ▶ Over voltage and under voltage protection
- ▶ Over temperature and automatic overload protection
- ▶ Short circuit AC backfeed protection

Options

- ▶ DC wiring box for residential home installations
- ▶ GFCI version



CSA/NRTL certified to UL & CSA standards

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Electrical Specifications - Inverter

Output power continuous	2000 watts
Surge rating (5 sec.)	4.5 kW
Output current	17 A RMS continuous, 50 A peak
Output voltage	117 VAC RMS
Output frequency	60 Hz +/-0.05% (crystal controlled)
Output waveform	True sine wave <2% THD typical
Efficiency (full load)	87%
Peak efficiency	89%
No load power draw (inverting)	<25 W
No load power draw (search mode, 3 s interval)	<2 W
Input DC voltage range	10 – 16 VDC

Electrical Specifications - Charger

Output current	100 A DC continuous
Output voltage	12 VDC nominal
Output voltage range	0 – 17.5 V
Charge control	3 stage with manual equalize
Charge temperature compensation	Remote battery sensor
Efficiency	81% typical
AC input power factor	0.99
Input current (for 100 A charging)	15 A RMS nominal
Input AC voltage	120 VAC nominal
Input AC voltage range	90 – 135 VAC

General Specifications

Compatible battery types	Flooded / gel / AGM / Pb-Ca
Transfer relay rating	30 A, 1.5 HP, 120 VAC
Transfer time (AC to inverter and inverter to AC)	16 ms typical
Storage ambient temperature range	-40°F – 158°F (40°C – 70°C)
Optimal operating temperature range	32°F – 104°F (0°C – 40°C)
Operating ambient temperature range	-4°F – 140°F (-20°C – 60°C - derated above 40°C)
Dimensions (HxWxD)	17.7 x 11.2 x 5.7" (450 x 285 x 145 mm)
Weight	24.0 lb (11 kg)
Warranty	2 years
Part numbers	805-2000 (Hardwire) 805-2020 (Hardwire & GFCI) 808-2000 (DC wiring box)

Regulatory Approvals

CSA/NRTL certified to CSA 107.1, UL 458 (including Marine supplement) and UL 1741 standards

KKK-A-1822D compliant, for use in "Star-of-Life" ambulances (GFCI version)

ABCY compliant, recommended practices E-8, E-9, A-20, and A-25 for marine use

Note: Specifications subject to change without notice.