

Prosine 3.0

3000 Watt True Sine Wave Inverter/Charger



NRTL

CSA/NRTL Certified to UL & CSA Standards

Provides 3000 watts of true sine wave AC power from a DC source and multistage battery charging

A powerful all-in-one solution, Prosine 3.0 inverter/chargers deliver unsurpassed clean true sine wave electrical power for all types of appliances along with technologically superior three-stage charging for longer battery life. The system includes a battery temperature sensor and an Advanced Control System (ACS) Remote Panel, which offers system control functionality with a menu-driven, multi-functional, LCD display.

Product Features

- ▶ 3000-watt inverter, 50 A high surge capability
- ▶ Power factor corrected multistage charger (120 A for 12 V model; 60 A for 24 V model)
- ▶ True sine wave output (crystal controlled)
- ▶ Built-in 30 A transfer switch automatically transfers between inverter power and incoming AC power
- ▶ Equalization mode conditions batteries for longer life
- ▶ Power sharing reduces charging current when AC loads are activated to prevent tripping of shorepower breaker
- ▶ Advanced Control System remote display panel included
- ▶ Compact, lightweight, and easy to install
- ▶ One year warranty

Advanced Control System Remote Panel

- ▶ Independent inverter and charger on/off controls
- ▶ Push button control of power sharing, equalizing, battery set-up
- ▶ Numerically displays AC and DC system information including volts, amps, and state of inverter/charger
- ▶ Text message fault diagnostics

Protection Features

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

Options

- ▶ Available in 12 volt and 24 volt models
- ▶ DC wiring box for residential home installation
- ▶ GFCI-equipped AC wiring box

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Electrical Specifications - Inverter

Output power (continuous)	3000 watts
Surge rating (5 sec.)	4000 watts
Output current (peak)	50 A
Output voltage (at no load)	120 VAC +/-3%
Output voltage (over full load and battery voltage range)	120 VAC RMS -10% / +4%
Output frequency	60 Hz +/-0.05% (crystal controlled)
Output waveform	True sine wave <5% THD
Peak efficiency	88%
No load current draw (search mode)	<3 W
No load current draw (with inverter on)	<60 W
Input DC voltage range (12 V/24 V)	10 – 16 VDC / 20 – 32 VDC

Electrical Specifications - Charger

Charger rate (12 V/24 V)	120 A / 60 A
Output voltage range (nom. 12 V/24 V - depending on settings)	
▶ Charge	13.8 – 14.8 VDC / 27.6 – 29.6 VDC
▶ Float	13.1 – 14.2 VDC / 26.2 – 28.4 VDC
▶ Equalize	14.0 – 18.0 VDC / 28.0 – 26.0 VDC
Charge control	3 stage with manual equalize
Charge temperature compensation	3 settings or optional sensor
Efficiency	>80%
AC input power factor (charger on)	0.99
Input AC voltage range	90 – 135 VAC

General Specifications

Compatible battery types	Flooded / gel
Transfer relay rating	30 A
Transfer time (AC to inverter and inverter to AC)	20 ms typical
Storage temperature range	-22°F – 158°F (-30°C – 70°C)
Operating temperature range	32°F – 140°F (0°C – 60°C)
Dimensions (H x W x D)	7.0 x 15.0 x 20.0" (178 x 381 x 508 mm)
Weight	32.0 lb (14.5 kg)
Warranty	Two years
Part numbers	805-3030 (12 V w/ACS remote)
	805-3031 (24 V w/ACS remote)
	808-3026 (DC wiring box)
	808-3027 (GFCI option)
	808-2035 (ACS remote display)

Regulatory Approvals

CSA/NRTL approved to CSA 107.1, UL 458 and UL 1741, FCC Class A

Note: Specifications subject to change without notice.