Prosine 1000/1800

1000 Watt and 1800 Watt Sine Wave Inverters

NRTL/C

CSA/NRTL Certified to UL and CSA Standards

Provides 1000 and 1800 watts of sine wave AC power from a DC source

Offering superior quality true sine wave output, the Prosine 1000 and 1800 stand-alone inverters are ideally suited for electrical systems that already have a quality multistage battery charger. Designed for recreational and industrial applications, their 120-volt, 60 Hz AC power output is capable of handling both heavy duty and smaller, multiple AC loads. Prosine inverters include a backlit LCD display panel, which can be mounted remotely.

Product Features

- 1000 and 1800 watt inverters (1500 and 2900 watt surge capability)
- True sine wave AC output (crystal controlled)
- Removable LCD display can be mounted remotely for control and monitoring
- Unique DC terminals offer 180-degree connections for easy installation in tight places
- Powersave mode draws only 1.5 watts under no load
- Two year warranty

Protection Features

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

Options

- Available in 12 and 24 volt models
- Models available with GFCI AC outlet or AC hardwire terminal strip for permanent installation into an electrical system (optional 15 A transfer switch available with hardwire option)
- Remote interface kit for remote mounting of display module

Ultra-clean true sine wave power

- With less than 3% total harmonic distortion, Prosine 1000 and 1800 inverters deliver true sine wave output that is identical to AC power supplied by your utility. This clean output makes Prosine inverters ideal for handling sensitive loads and improves AC equipment performance. Expect trouble-free true sine wave electricity for televisions, audio systems, variable speed tools, and more.

Light and compact

- Prosine inverters are lighter and more compact than other inverters with similar power ratings because they use high-frequency switching technology in the power conversion process.

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

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

www.xantrex.com

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Electrical Specifications

Models	Prosine 1000	Prosine 1800
Output power	1000 watts	1800 watts
Surge rating	1500 watts	2900 watts
Output current (peak)	25 A	45 A
Output voltage (at no load)	120 VAC +/-3%	120 VAC +/-3%
Output voltage (over full load and battery voltage range)	120 VAC RMS -10%/+4%	120 VAC RMS -10%/+4%
Output frequency	60+/-0.05 (crystal controlled)	60+/-0.05 (crystal controlled)
Output waveform	True sine wave (<3% THD)	True sine wave (<3% THD)
Peak efficiency (12 V/24 V)	89% / 90%	89% / 90%
No load power draw (search mode)	<1.5 W	<1.5 W
No load power draw (idle mode)	<22 W	<22 W
Input voltage range (12 V/24 V)	10 – 16 VDC / 20 – 32 VDC	10 – 16 VDC / 20 – 32 VDC
Transfer relay rating (hardwire/transfer relay models)	15 A	15 A
Transfer time AC to inverter and inverter to AC	Max 2 cycles (typically 1 cycle) <2.5 seconds with Powersave "ON"	Max 2 cycles (typically 1 cycle) <2.5 seconds with Powersave "ON"

General Specifications

Operating temperature range	32°F – 140°F (0°C – 60°C)	32°F – 140°F (0°C – 60°C)
Storage temperature range	-22°F – 158°F (-30°C – 70°C)	-22°F – 158°F (-30°C – 70°C)
AC output types	Dual GFCI receptacle	Dual GFCI receptacle
	Hardwire	Hardwire
	Hardwire with transfer relay	Hardwire with transfer relay
LCD display panel	Removable; can be mounted remotely	Removable; can be mounted remotely
	(requires remote interface kit - see part number section)	(requires remote interface kit - see part number section)
	Displays DC volts, amps and output power	Displays DC volts, amps and output power
Recommended DC fuse	12 V: 150 A or 175 A*	12 V: 225 A or 300 A*
	24 V: 70 A or 90 A*	24 V: 100 A or 150 A*
	*Depending on applicable installation codes	*Depending on applicable installation codes
Dimensions (H x W x D)	4.5 x 11.0 x 15.4" (115 x 280 x 390 mm)	4.5 x 11.0 x 15.4" (115 x 280 x 390 mm)
Weight	14.5 lb (6.5 kg)	16.5 lb (7.5 kg)
Warranty	Two year	Two year
Part numbers	806-1000 (12 V w/GFCI outlets)	806-1800 (12 V w/GFCI outlets)
	806-1001 (12 V w/AC hardwire)	806-1801 (12 V w/AC hardwire)
	806-1002 (12 V w/AC hardwire & transfer switch)	806-1802 (12 V w/AC hardwire & transfer switch)
	806-1050 (24 V w/GFCI outlets)	806-1850 (24 V w/GFCI outlets)
	806-1051 (24 V w/AC hardwire)	806-1851 (24 V w/AC hardwire)
	806-1052 (24 V w/AC hardwire & transfer switch)	806-1852 (24 V w/AC hardwire & transfer switch)
	808-1800 (Remote interface kit)	808-1800 (Remote interface kit)

Regulatory Approvals

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

EMC: FCC Class B

KKK-A-1822D: Federal specification for use on ambulances

Designed to meet **ABYC** E8, E9, A25 for marine applications

Note: Specifications subject to change without notice.