

# Prosine Sine Wave Inverters

## 1000 Watt and 1800 Watt/230 Volt/50 Hz Sine Wave Inverters



### Provides true sine wave AC power from a DC source

Offering superior quality sine wave output, the Prosine 1000i and Prosine 1800i stand-alone inverters are ideally suited for electrical systems that already have a quality multistage battery charger. Designed for recreational and industrial applications, Prosine inverters are suitable for both heavy duty and sensitive electronic loads. The inverters are lighter and more compact than others with similar power ratings because they use high-frequency switching technology in the power conversion process.

### Ultra-Clean True Sine Wave Power

With less than 3% total harmonic distortion, the Prosine delivers true sine wave output that is identical to AC power supplied by your utility. Expect trouble-free true sine wave electricity for televisions, audio systems, variable speed tools, and more.

### Product Features

- ▶ Two models available: 1000 watt (1500 watt surge) and 1800 watt (2900 watt surge)
- ▶ True sine wave output
- ▶ Removable LCD display can be mounted remotely for control and monitoring
- ▶ Unique DC terminals offer 180-degree connections for easy installation in tight places
- ▶ Efficient powersave mode draws only 1.5 watts under no load condition
- ▶ 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
- ▶ Schuko AC receptacle
- ▶ Remote interface kit for remote mounting of display module
- ▶ Models available with Schuko, hardwire, or hardwire with transfer switch

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### Electrical Specifications

Model	Prosine 1000i	Prosine 1800i
Output power	1000 watts	1800 watts
Surge rating	1500 watts	2900 watts
Peak output current	11 A	20 A
Output voltage (at no load)	230 VAC RMS +/-3%	230 VAC RSM +/-3%
Output voltage (over full load and battery voltage range)	230 VAC RMS +4%, -10%	230 VAC RMS +4%, -10%
Output frequency	50 Hz +/-0.05 (crystal controlled)	50 Hz +/-0.05 (crystal controlled)
Output waveform	True sine wave (<3% THD)	True sine wave (<3% THD)
Peak efficiency	90%	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)	10 A	10 A
Transfer time AC to inverter and inverter to AC	Max 2 cycles (typically 1 cycle) <2.5 seconds with Powersave "ON"	

### General Specifications

Operating temperature range	0°C - 60°C	0°C - 60°C
Storage temperature range	-30°C - 70°C	-30°C - 70°C
AC output types	Hardwireq	Hardwire
	Hardwire with transfer relay	Hardwire with transfer relay
	Schuko AC receptacle	Schuko AC receptacle
LCD display panel	Removable; can be mounted remotely (requires remote interface kit - see part number section)	
Recommended DC fuse (12 V model)	175 A (depending on applicable installation codes)	300 A (depending on applicable installation codes)
Recommended DC fuse (24 V model)	90 A (depending on applicable installation codes)	100 A (depending on applicable installation codes)
Dimensions (H x W x L)	115 x 280 x 390 mm	115 x 280 x 390 mm
Weight	7.0 kg	7.5 kg
Warranty	Two years	Two years
Part numbers	806-1070 (12 V/230 SCHUKO)	806-1870 (12 V/230 SCHUKO)
	806-1073 (12 V/230 Hardwire)	806-1873 (12 V/230 Hardwire)
	806-1074 (12 V/230 Hardwire & transfer switch)	806-1874 (12 V/230 Hardwire & transfer switch)
	806-1080 (24 V/230 SCHUKO)	806-1880 (24 V/230 SCHUKO)
	806-1083 (24 V/230 Hardwire)	806-1883 (24 V/230 Hardwire)
	806-1084 (24 V/230 Hardwire & transfer switch)	806-1884 (24 V/230 Hardwire & transfer switch)
	808-1800 Remote interface kit)	808-1800 (Remote interface kit)

### Regulatory Approvals

**CE Mark** - Low Voltage Directive (EN50091-1), **EMC Directive** (EN50091-2)

**e-Mark** - Automotive EMC Directive 95/54/EC

Note: Specifications subject to change without notice.

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