



Available in 12 and 24V models  
 1000 and 1800W models (continuous)  
 Generous surge rating  
 Efficient power save: 1.5W under no-load condition.  
 Removable LCD display can be mounted remotely for control and monitoring.  
 Unique DC terminal offer 180 degree connections for installation in tight places.  
 Protection features include: over-temperature, overload, short, AC backfeed, over/under voltage.

Designed for recreational and industrial applications. Prosine inverters are suited to both heavy duty and sensitive electronic loads. High frequency switching enables the Prosine range to be constructed in a compact and light weight enclosure.

With less than 3% total harmonic distortion, the Prosine delivers true sine wave output that is identical to the AC power supplied by your utility.

◆ 24 Month Warranty

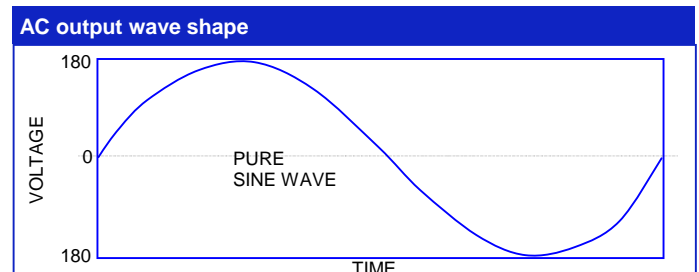
**SPECIFICATIONS** All specifications are typical at nominal input, full load and at 25°C unless otherwise stated.

ELECTRICAL	
<b>DC Input</b>	12V models, (10 - 16V DC) 24V models, (20 - 32V DC)
<b>Input Current Full Load</b>	Refer model table (46 - 167A)
<b>Inverter on - no load</b>	Refer model table (63mA - 1.8A)
<b>Protection Features</b>	Over-temperature, overload, short circuit, AC backfeed, over-voltage, under-voltage.
<b>Reverse Polarity</b>	Will open internal fuse.
<b>Battery Low Voltage Alarm</b>	12V: 10.5V DC      24V: 21V DC
<b>Battery Low Voltage Shutdown (approx)</b>	12V: 10.0V DC 24V: 20.0V DC
<b>Battery Over Voltage Shutdown (approx)</b>	12V: 16V DC 24V: 32V DC
<b>Peak Efficiency</b>	90%
<b>Output Power</b>	1000 and 1800W (continuous at 40°C)
<b>Output Power Surge</b>	1000W models: 1500W 1800W models: 2900W
<b>Output Voltages</b>	No load:            230V AC RMS ± 3% Over full load and battery voltage range: 230V AC RMS +4%, -10%
<b>Output Frequency</b>	50Hz ± 0.05 (crystal controlled)
<b>AC Wave Form</b>	True sine wave (<3% THD, 1% typical)
<b>Current Limit</b>	1000W models: 11A @ 230V AC 1800W models: 20A @ 230V AC
<b>Recommended Fusing</b>	12V 1000W: 175A * 12V 1800W: 300A * 24V 1000W: 90A * 24V 1800W: 100A * * depending on applicable installation codes.

PHYSICAL	
<b>Input Connection</b>	Screw terminals, 180° connection
<b>Output Connection</b>	<ul style="list-style-type: none"> <li>Standard 3 pin output socket</li> <li>Hardwire</li> <li>Optionally hardwire with AC transfer relay</li> </ul>
<b>Indicators</b>	LCD Display panel ( can be remotely mounted, requires remote interface kit)
<b>Switch</b>	On / Off switch on front panel.
<b>Dimensions</b>	115 x 280 x 390mm
<b>Mounting</b>	To horizontal or vertical surface by mounting holes (8) in unit.

ENVIRONMENTAL	
<b>Operating temperature</b>	0 - 60° C ambient at rated output power (derate from 40 - 60 °C)
<b>Storage temperature</b>	-30 to +70° C
<b>Cooling</b>	Forced air cooling

STANDARDS - Regulatory Approvals	
<b>CE Mark</b>	Low voltage directive (EN50091-1)
<b>EMC</b>	Directive (EN50091-2)
<b>e-Mark</b>	Automotive EMC Directive 95/54/EC



**STANDARD PREFERRED MODEL TABLE**

MODEL	DC Input				AC Output 50Hz @ 230VAC		Weight
	Voltage Nominal	Current @ Rated Iout	ON, no load (search mode)	ON, no load (idle mode)	Continuous Power *	Peak Power	
<b>IP1000S12</b>	12V	92.6A	1.5W	22W	1,000W	1,500W	7.0Kg
<b>IP1800S12</b>	12V	166.7A	1.5W	22W	1,800W	2,900W	7.5Kg
<b>IP1000S24</b>	24V	46.3A	1.5W	22W	1,000W	1,500W	7.0Kg
<b>IP1800S24</b>	24V	83.3A	1.5W	22W	1,800W	2,900W	7.5Kg

\* Up to 40° C ambient

Add suffix 'T' to part number for units with AC auto-transfer switch. i.e. IP1800S12T

Specifications are based on 12V and 24V nominal DC input.  
Specifications are subject to change without notice.

**Removable LCD display panel**



Removable LCD Display can be mounted remotely for control and monitoring.

Requires optional interface kit complete with 9m lead.

(Part no. IP-REMOTE)

**Optional transfer switch, output receptacles**

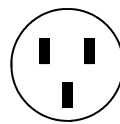
Models available with standard 3 pin output receptacle, hardwire or hardwire with AC transfer switch (automatically switches from utility mains power to inverter or inverter to utility mains power. (add suffix 'T' to part number).

**Transfer switch relay rating:** 10A

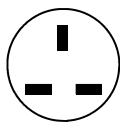
**Transfer time AC to inverter:** Max 2 cycles (typically 1 cycle) \*

**Transfer time inverter to AC:** Max 2 cycles (typically 1 cycle) \*


\* <2.5 seconds with powersave "ON"




North America,  
Japan



UK, Ireland



Continental  
Europe



Australia, New  
Zealand

**ADDITIONAL INFO (WAVEFORMS)**

**Waveforms Explained:**

Today's inverters generally produce two types of AC power: modified sine wave (MSW) or sine wave (SW). The differences between MSW and SW waveforms are subtle, but significant in the way they affect the operation of certain types of loads. Sine wave is considered the ideal waveform; pure SW output is the same clean quality as the utility power delivered to your home.

**Modified Sinewave Inverters:**

Modified sinewave inverters such as the XPower can power most household appliances. However, this waveform may present certain performance compromises with inductive loads such as refrigerator motors and microwave ovens. In spite of its limitations, modified sinewave inverters are popular worldwide due to their affordable cost.

**Sinewave inverters**

Sine wave inverters (also called true / pure sinewave) are the most sophisticated inverters on the market today. Designed to replicate the electrical output produced by utility companies, sine wave is the best electrical waveform for powering premium electronic equipment, such as laser printers, bread makers and plasma screen televisions. Sine wave inverters eliminate incompatibility and performance issues - such as lines on television screens and background noise in premium sound systems - and are generally more expensive than modified sine wave inverters. Please refer to LS Series, BKZ Series, Prosine and Schaefer Industrial which are all true sine wave inverters.