

## PRODUCT OVERVIEW



### IPSi1200 INTELLIGENT PURE SINE INVERTER

The IPSi1200 series Intelligent Pure Sinewave Inverter is designed specifically for powering computers and other sensitive AC loads in rugged, mobile, off-grid environments. It produces pure sinewave AC power, identical to that from a conventional AC outlet.

Internally, the IPSi1200 is controlled by a sophisticated Digital Signal Processor (DSP) for optimal control and the most efficient operation. The heavy-duty Toroidal Power Transformer steps the low voltage AC produced by the Power MOSFET Transistors to 110 VAC at 50 or 60 Hz. Additional filtering on the output reduces and eliminates EMI noise that can interfere with sensitive communications equipment.

Built for the safety and reliability, this unit features low input voltage warning with shutdown circuitry to protect the power source. While the Inverter is safeguarded by high voltage and over temperature protection both with shutdown circuitry. All alarm conditions can be monitored on the bright LED indicator display on the unit's front panel.

### Available models

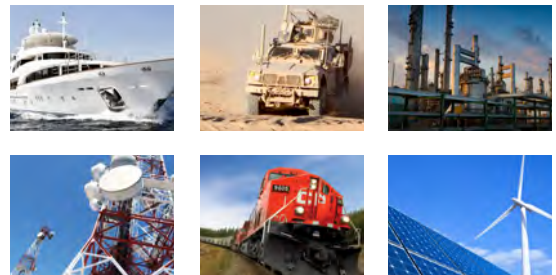
#### Input

12VDC
24, 28, 32, or 36 VDC
48 or 72 VDC
125VDC

#### Output

110VAC, 60Hz ( 50Hz user-selectable)
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### Applications



## TECHNICAL SPECIFICATIONS

INPUT	-12	-20	-40	-125
Nominal	12 VDC	24 or 36 VDC	48 or 72 VDC	125 VDC
Actual (Vdc)	10.5-16 VDC	20 - 45 VDC	40 - 80 VDC	100 - 140 VDC
Input Fuse (External, user supplied)	152 Amp	84 Amp	46 Amp	16 Amp
OUTPUT	-110V			
Nominal Voltage	110 ± 2 VAC			
Output Volts Adjust Range	± 10 VAC			
Max Amps	10A (cont.) / 12A (peak)			
Output Frequency	50.00 or 60.00 Hz ± 0.01 Hz (user-selectable)			
Output Distortion	< 2% at 1200 Watts into resistive load			
Regulation (Line & Load)	< +/- 2.0%			
Duty Cycle	<b>Continuous:</b> 100% for 24 hrs. per day / <b>Peak:</b> 10% for 1 min. per hr.			
Efficiency	90% @ Maximum Output			
Transfer time	< 19 milliseconds (Off-line UPS Option)			
MECHANICAL				
Length	12.3 in / 31.2 cm			
Width	9.4 in / 23.9 cm (including lifting handles)			
Height	7.8 in / 19.8 cm			
Clearance	1.0 in / 2.5 cm all around			
Weight	30.0 lb / 13.6 kg (estimated)			
Material and Finish	Marine Grade Black Anodized Aluminum with 18-8 Stainless Fasteners			
Mounting	Shelf Mount			
Connections	<b>DC Input:</b> Marathon ST722B2502UH, 175Amp, 300V Rating c/w Protective Snap On Cover <b>AC Output (1):</b> Phoenix VDFK 4 Feed Through Connector <b>AC Output (2):</b> 1 x NEMA 5-15 Receptacle		<b>DC Input (-125):</b> Red and Black Phoenix VDFK 4 Feed Through Connectors	
ENVIRONMENTAL AND SAFETY				
Operating Temperature	-25°C to +40°C @ continuous output (Optional -40°C to +55°C wide temperature range available)			
Isolation	Input-Output, Output-Case, and Input-Case 1500 VDC			
Humidity	0 - 95% Relative Humidity (non-condensing) with standard conformal coating			
Audible Noise	34.5dB @ 3 feet / 1 meter (max fan speed)			
Warranty	Three Years			
Safety	Built to meet CSA 22.2.107.1 & UL458 standards			

## OPTIONS

- Off-line UPS option
- Heavy duty ruggedization
- Safety Special Inspection (CSA/UL)
- IP66 or IP67 Water Resistant Chassis

## DIMENSIONS

