

## PRODUCT OVERVIEW



### IPSi2400 INTELLIGENT PURE SINE INVERTER

The IPSi2400 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 IPSi2400 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

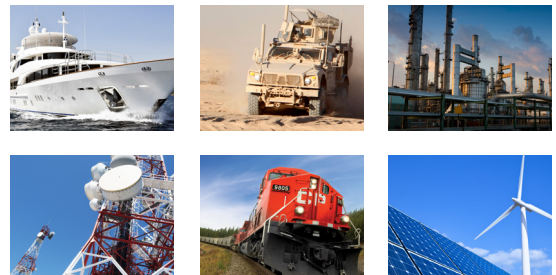
#### Input

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	-20	-40	-125
Nominal	24, 28, 32 or 36 VDC	48 or 72 VDC	125 VDC
Actual (Vdc)	20 - 45 VDC	40 - 80 VDC	100-140 VDC
Input Fuse (External, user supplied)	160 Amp	80 Amp	32 Amp

OUTPUT	-110V
Nominal Voltage	110 VAC
Actual Volts	110 ± 10 VAC (user-adjustable)
Max Amps	20 A (cont) / 24 A (peak)
Output Frequency	60.00 Hz ± 0.01 Hz (50.00 Hz user-selectable)
Output Distortion	< 2% at 2400 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)

## OPTIONS

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

## MECHANICAL

Length	15.2 in / 38.5 cm
Width	9.4 in / 23.8 (with mounting flanges)
Height	9.3 in / 23.6
Clearance	1.0 in / 2.5 cm all around
Weight	52.5 lb / 24.0 kg
Material and Finish	Marine Grade Black Anodized Aluminum with 18-8 Stainless Fasteners
Mounting	Shelf Mount
Connections	<b>DC Input:</b> Power Stud Blocks Marathon ST722B2502UH with 1/4" - 20 Stud <b>AC Output(1):</b> 2 x NEMA 5-20 receptacle <b>AC Output (2):</b> 30A hardwire connection Phoenix VDFK 4 Feed Through Connectors (Green, Gray and Black)

## ENVIRONMENTAL AND SAFETY

Operating Temperature	-25°C to +40°C @ continuous output (Optional -40°C to +55°C wide temperature range available)
Isolation	Input-Case, Input-Output and Output-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	Five Years
Safety	Built to meet CSA 22.2.107.1 & UL458 standards

## DIMENSIONS

