



ANALYTIC SYSTEMS

Power Conversion Solutions

DC/AC 1200 Watt PURESINE INVERTER

MODEL IPSi1200 SERIES



Description

The IPSi Series of 'Intelligent Pure Sinewave' Inverters are designed specifically for running computers and other sensitive AC loads in rugged mobile and other off-grid environments.

One standard AC receptacle (circuit breaker protected) plus a dedicated hardwire connection provide for easy connection of loads. Models are available for 110 or 220 Volts AC Out at 50 or 60 Hz (user selectable), and to operate from 11-15, 20-45 or 40-80 Volts DC In to cover all standard DC battery voltages from 12 to 64 volts nominal (includes 72V Rail).

Using the free to download 'Power Wizard' software, the user can select output frequency, output voltage and low voltage shutdown parameters from any laptop through the standard usb interface.

Benefits

- Proven technology
- Rugged & Reliable for years of safe and trouble free operation
- Multiple battery voltages supported by each model

Options

- CANBUS or RS485 communication option
- Remote Digital Display and Control option
- OFF-Line UPS option

Design Features

- Pure Sine Wave output – 110 VAC or 220 VAC at 50 or 60 Hz fully regulated output, exactly the same as household AC
- Hard Wire and Plug-In (NEMA 5-20 or Euro CEE 7/7) AC output connections standard
- Extra heavy input filtering to eliminate interference with other equipment sharing the same batteries
- Digital Signal Processor controlled State-of-the art MosFet technology for efficient and reliable operation
- Toroidal transformer type output to protect computers and other sensitive equipment from surges and spikes
- ON-OFF switch illuminated by AC output for positive indication of proper operation
- Thermostatically controlled fan
- Programmable low voltage warning and shutdown to protect the batteries
- Over voltage and over temperature warning and shutdown to protect the inverter.
- Current Limiting and Short circuit protection
- Isolated input for positive or negative ground operation
- Diagnostic LEDs and Audible Alarm

An ISO9001 and AS9100 Registered Company Battery Chargers • Inverters • Power Supplies • Voltage Converters

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www.analyticsystems.com

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Electrical (Input)

Nominal (ip)	12 VDC	24, 28, 32 or 36 VDC	48 or 72 VDC
Actual (Vdc)	11-15	20-50	40-90
Input Amps (max)	120	60	30

Electrical (Output)

Output Nominal (op)	110	220
Output Volts (AC)	110 ± 10 VAC (user adjustable)	220 ± 20 VAC (user adjustable)
Output Amps	10A (cont) / 12A (peak)	5A (cont) / 6A (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	Continuous 100% for 24 hours per day	
Efficiency	> 90% @ Maximum Output	

Environmental Specification

Operating Temp. Range	-25°C to +40°C @ maximum output (-40°C Optional)
Humidity	0 - 95% Relative Humidity (non-condensing) with standard conformal coating
Audible Noise	34.5 dB @ 3ft
Typical Service Life	> 10 years (87,600 hrs)
Isolation	Input to Output, Output to Case & Input to Case 1500 VDC

Mechanical Specification

Length	13.4 +/- 0.1 in / 33.9 +/- 0.3 cm
Width	9.4 in +/- 0.1 in / 23.8 +/- 0.3 cm including mounting flanges
Height	7.7 in +/- 0.1 in / 19.6 +/- 0.3 cm
Clearance	1 inch (2.5 cm) all around
Material	Marine Grade Aluminium
Finish	Black Anodize / Powder Epoxy Coat
Fastenings	All 18-8 Stainless Steel
Weight	30.0 lbs / 13.6 kg
Connections	DC In – Marathon ST722B2502UH, 175 Amp, 300V Rating c/w Protective Snap On Cover AC Out – 1 x NEMA 5-15 receptacle or 1 x 16A 250V CEE 7/7 receptacles with circuit breaker protection, plus one 30A hardwire connection AC In – one 30A hardwire connection (with Off-Line UPS Option)
Warranty	Three years parts and labor

Note: Specifications are subject to change without notice.



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