

**ANALYTIC SYSTEMS**  
Power Conversion Solutions

**INTELLIGENT  
PURESINE INVERTER**

**IPSi2000MW**

Low Voltage Warning and Shutdown

Over Voltage and Over Temperature Protection

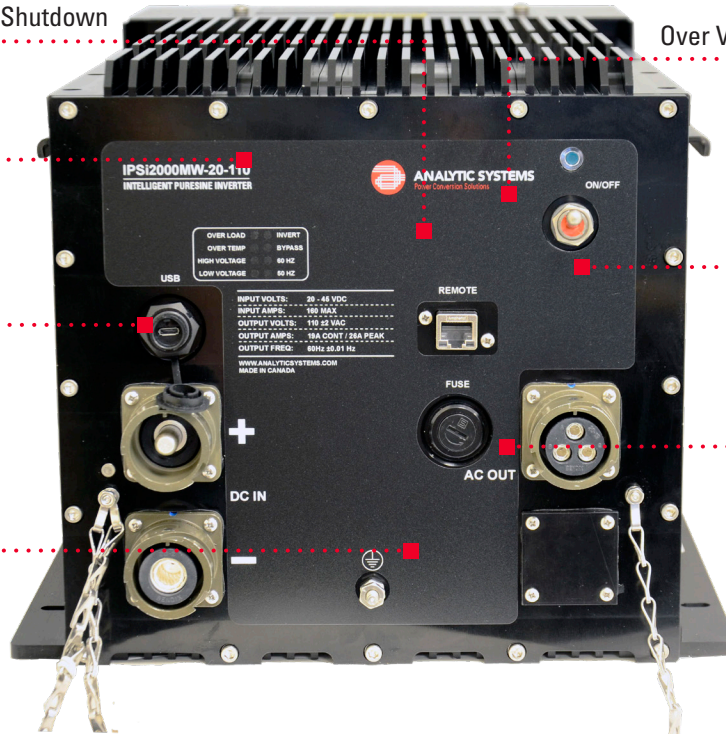
IP68 Rated Cooling Fans

Programmable Frequency

Short Circuit Protection

Programmable Output Voltage

DSP Controlled



## IPSi2000MW INTELLIGENT PURE SINE INVERTER

The IPSi2000MW 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.

Standardized high current MIL connectors provide a solid connection to the battery and AC loads and allows for easy interchange between the IPSixxxxM and IPSixxxxMW models between 1000 and 3600 watts without rewiring.

The IPSi2000MW is controlled by a sophisticated Digital Signal Processor for optimal control and operation. The unit's heavy-duty Toroidal Power Transformer steps up the low AC voltage produced by the Power MosFet Transistors from 110 to 220 VAC @ 50Hz. It also filters the AC output to reduce or eliminate noise that could potentially interfere with sensitive communications equipment.

Models are available for both 110 or 220 Output VAC @ 50 or 60 Hz (user selectable) and can operate from 20-45 or 40-80 Input VDC to cover all standard DC battery voltages from 24-64 volts nominal, including 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.

**2 YEAR WARRANTY**



### Available models

#### Input

24, 28, 32, or 36 VDC  
48 or 72 (Rail) VDC

#### Output

110 VAC, 50 or 60 Hz  
220 VAC, 50 or 60 Hz

### Applications



# IPSi2000MW | INTELLIGENT PURESINE INVERTER

INPUT VOLTAGES	-20V	-40V
Nominal (VDC)	24, 28, 32 or 36	48 or 72 (Rail)
Actual (VDC)	20 - 45	40 - 80
Input Amps (max)	160	80
Input Fuse (External, not supplied)	275	100

OUTPUT VOLTAGES	-110V	-220V
Output Volts (AC)	110 ± 2 VAC	220 ± 4VAC
Output Amps (max)	16.7A (cont.) / 24A (peak)	8.3A (cont.) / 12A (peak)
Output Fuse	40Amp	20Amp
Output Frequency	50.00 or 60.00 Hz ± 0.01 Hz (user selectable)	
Output Distortion	< 2% at 2000 Watts into resistive load	
Regulation (Line & Load)	< +/- 2.0%	
Duty Cycle	Continuous 100% for 24 hours per day	
Efficiency	> 90% @ Maximum Output	

## MECHANICAL

Length	17.3in / 43.9cm
Width	11.5in / 29.2cm (including lifting handles)
Height	9.4in / 23.9 cm
Clearance	1.0 in / 2.5 cm (all around)
Weight	70.0 lb / 31.8 kg (estimated)
Material and Finish	Black Anodized Marine Grade Aluminum
Fastenings	18-8 Stainless Steel

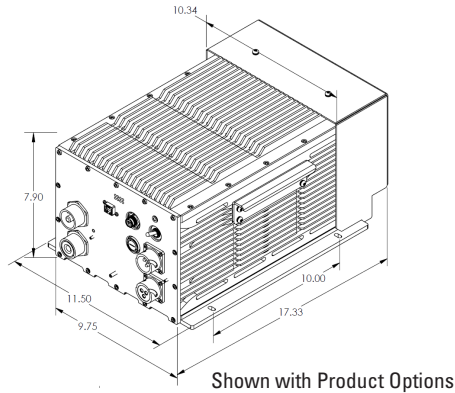
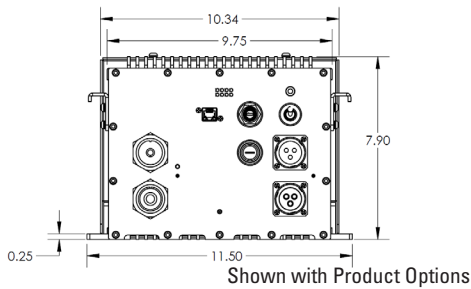
## ENVIRONMENTAL AND SAFETY

Operating Temperature Range	-40°C to +55°C @ maximum output
Isolation	Input-Output, Output-Case, and Input-Case: 1500 VDC
Connections	Positive In - GTC02R20-2P c/w cover Negative In - GTC02R20-2S-RDS c/w cover  AC Output Connection -GTS02R-20-19S c/w cover AC Input Connection -GTS02R-20-19P c/w cover (With Off-line UPS Option)
Warranty	2 Years

## OPTIONS

- COTS - MIL461F and MIL810G in-house testing and a report for each unit
- Stand-alone MIL461F tested with report
- Stand-alone MIL810 tested with report
- European ROHS compliant
- Heavy Duty Ruggedization
- IP68 certified and tested waterproofing
- Safety Special Inspection (CSA/UL)

## DIMENSIONS



**ANALYTIC SYSTEMS**  
Power Conversion Solutions



[www.tecknowledgey.com](http://www.tecknowledgey.com)



[info@tecknowledgey.com](mailto:info@tecknowledgey.com)



914.739.4499



Tecknowledgey Inc.  
8 John Walsh Blvd  
Peekskill, NY 10566