

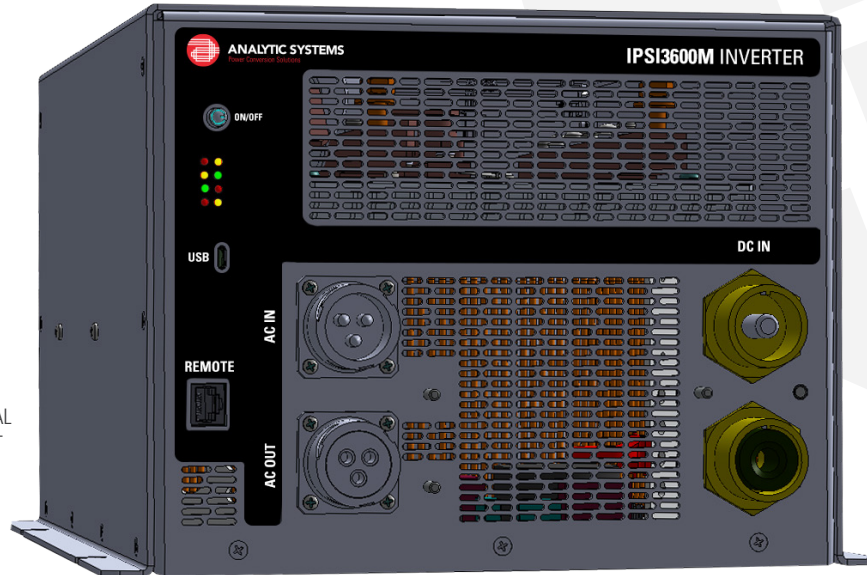


# ANALYTIC SYSTEMS

Power Conversion Solutions

DC/AC 3000W  
PURESINE INVERTER

MODEL  
IPSi3600M SERIES



SHOWN WITH OPTIONAL  
OFFLINE UPS AC INPUT

## Description

The IPSi-M 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.

High current MIL connectors provide a solid connection to the battery. One high current bayonet style MIL connector is provided for AC connection out to the loads.

Models are available for 110 or 220 Volts AC Out at 50 or 60 Hz (user selectable), and to operate from 20-45 or 40-80 Volts DC In to cover all standard DC battery voltages from 24 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 and 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
- MS3454W20-2S and MS3454W20-2P DC Input Connections
- GTS02R-20-19P027 AC Output Connection
- GTS02R-20-19S027 AC Input Connection (with Off-Line UPS Option)
- Extra heavy input filtering to eliminate interference with other equipment sharing the same batteries. (Note: MIL461E NOT guaranteed due to extremely high DC currents)
- 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

8128 River Way, Delta B.C. V4G 1K5 Canada T. 604.946.9981 F. 604.946.9983 TF. 800.668.3884 (US/CANADA)

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

# DC/AC 3600W PURESINE INVERTER

# MODEL IPSi3600M SERIES

## Electrical (Input)

Nominal (ip)	24, 28, 32 or 36 VDC	48 or 72 VDC
Actual (Vdc)	20 - 45	40 - 90
Input Amps (max)	180	90

## Electrical (Output)

Output Nominal (op)	110	220
Output Volts (AC)	110 ± 10 VAC (user adjustable)	220 ± 20 VAC (user adjustable)
Output Amps	30A (cont) / 36A (peak)	15A (cont) / 18A (peak)
Output Frequency	50.00 or 60.00 Hz ± 0.01 Hz (user selectable)	
Output Distortion	<2% at 3600 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	-40°C to +55°C
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
Vibration	Designed to meet MIL-STD 810F for shock and vibration

## Mechanical Specification

Length	15.6 +/- 0.1 in / 39.7cm +/- 0.3 cm
Width	12.0 +/- 0.1 in / 30.5cm +/- 0.3 cm
Height	8.0 +/- 0.1 in / 21.3cm +/- 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	71.5 lbs / 32.4 kg
Connections	DC Input Connections - MS3454W20-2S and MS3454W20-2P AC Output Connection - GTS02R-20-19S027 AC Input Connection - GTS02R-20-19P027 (with Off-Line UPS Option)
Warranty	Two years parts and labor

Note: Specifications are subject to change without notice.



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