



# ANALYTIC SYSTEMS

Power Conversion Solutions

## DC/AC PURESINE INVERTER

### MODEL IPS2000



### Benefits

- Ultra-Quiet
- Power sensitive electronics without interference
- Rugged & Reliable
- Ensure years of safe and trouble free operation

### Design Features

- Pure Sine Wave' 120 VAC / 60 Hz fully regulated output, exactly the same as household AC (or 220 VAC / 50Hz)
- Ultra-quiet low EMI design
- Extra heavy input filtering to eliminate interference with other equipment sharing the same batteries
- Crystal controlled for precise frequency ( $\pm 0.01$  Hz)
- State-of-the-art MosFet technology and unique **"Soft-Start"** circuitry for reliable operation
- Short Circuit Protection
- Current Limiting
- Overload Protected
- Illuminated ON-OFF switch for positive indication of proper operation
- Built to the Q-Base Quality System Standard
- Over-temperature protected
- Low voltage warning and shutdown circuitry to protect the batteries
- Transformer type output to protect computers and other sensitive equipment from surges and spikes
- Over voltage and over temperature warning and shutdown circuitry to protect the inverter
- Thermostatically controlled fan
- Two AC receptacles for easy connection of up to four devices
- Isolated input for positive or negative ground operation
- Diagnostic LEDs and Audible Alarm

### Description

Computers are moving onto the battlefield at an ever increasing rate as more and more specialty software packages become available. However there is a major problem. Computers require clean, pure AC power to work reliably. If you power one from the same Genset that runs your heavy loads, you could damage it from surges and spikes generated by switching those loads.

If you power it from the same Inverter that runs a microwave and other electrical devices, similar problems occur, plus voltage dropouts from excessive loads on the inverter add to the problem. Also, most inverters produce 'Quasi-Sine Wave' AC, which often doesn't run computers very well. Complaints of noisy displays, cursors that move by themselves and more abound.

The IPS Series of 'Pure Sine Wave' Inverters are designed specifically for running computers and other electronics in rugged mobile and other off-grid locations.

Two standard AC receptacles provide for easy connection. Versions are available to operate from a 24V, 28V, or 32 volt battery system. The IPS2000 series of inverters carry a standard three-year warranty with an added 2 year extension available.

### Applications

- VHF Radios
- CB Radios
- Sound Equipment
- GPS Receivers
- Plotters
- 12 Volt Lighting Systems
- Automotive Electronics Displays
- Marine Electronics Displays
- Security Systems

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)	24V	
Actual (Vac)	20 - 40	
Input Amps (max)	188	
Input Fuse (ATC)	40A x 5	
Electrical (Output)		
Output Nominal (op)	110	220
Output Volts (AC)	115 ± 5 rms	225 ± 10 rms
Charging Amps	17.4 cont. / 26.0 peak	8.7 cont. / 13.0 peak
Output Frequency	60.00 ± 0.01 Hz	OR 50.00 ± 0.01 Hz
Output Type	Pure Sine Wave	
Output Distortion	< 5% at 1000 Watts into 0.8 power factor load	
Regulation (Line & Load)	< +/- 0.5%	
Duty Cycle	Peak 20% for 10 min max Continuous 100% for 24 hours per day	
Efficiency	> 80% @ Maximum Output	
Environment Specification		
Operating Temp. Range	-25° to + 40°C @ maximum output Derate Linearly 2.5% per °C from 40°C to 85°C (Optional -40°C to +55°C extra wide temp. operation avail.)	
Humidity	0 - 95% Relative Humidity (non-condensing) with standard conformal coating	
Audible Noise	34.5 dB @ 3 ft	
Typical Service Life	> 10 yrs. (87,600 hrs)	
Isolation	Input-Output & Output Case 1500VDC Input-Case 500VDC	
Vibration	Can be built to meet MIL-Std protection with "MS" option if required	
Mechanical Specification		
Length	14.3 in / 36.2 cm	
Width	9.0 in / 22.9 cm	
Height	8.9 in / 22.7 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	46.6 lb / 21.1 kg	
Connections	Dual Decora Style Receptacles OR Standard IEC Plugs for 220VAC	
Warranty	3 years (2 yr. extension avail.)	

Note: Specifications are subject to change without notice.



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