

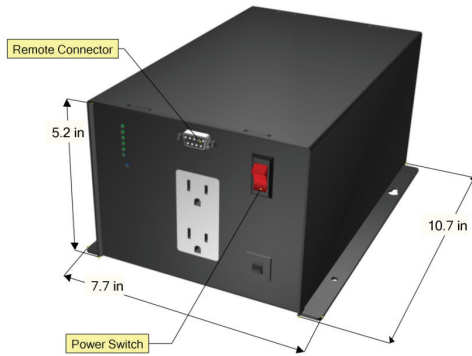
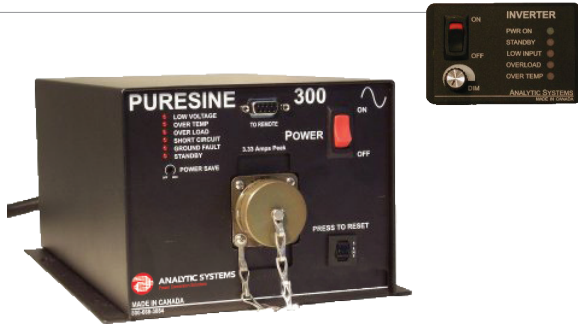


ANALYTIC SYSTEMS

Power Conversion Solutions

DC/AC PURESINE INVERTERS

MODEL IPS300MS SERIES



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 Military 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.

One standard AC receptacles or a variety of customized MIL-SPEC Connectors provide for easy connection. Versions are available to operate from 12V, 24V, 28V, or 32 volt battery systems. The IPS300 series of inverters carry a standard three-year warranty with an added two year extension available.



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
- Ultra-quiet, low EMI design
- Extra heavy input filtering to eliminate interference with other equipment sharing the same batteries
- Crystal controlled for precise frequency (± 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
- One AC receptacles for easy connection of up to four devices (Various Mil Connectors Available as options)
- Isolated input for positive or negative ground operation
- Diagnostic LEDs and Audible Alarms

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)	12	24	32
Actual (Vdc)	10.5-16	20-30	30-40
Input Amps (max)	48	25	17
Input Fuse (ATC)	30A x 2	30A	20A
Electrical (Output)			
Output Nominal (op)	110	220	
Output Volts (AC)	115 ± 5 rms	220 ± 10 rms	
Output Amps	2.50 cont. / 3.33 peak	1.36 cont. / 1.82 peak	
Output Frequency	60.00 ± 0.01 Hz	50.00 ± 0.01 Hz	
Output Type	Pure Sine Wave		
Output Distortion	< 5% at 300 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		
Ground Fault Current	Max 5 mA between Neutral and Ground		
Safety	cETLus approved to CSA C22.2 & UL458 (Standard units only)		
Environment Specification			
Operating Temp. Range	-40° to +55°C @ maximum output (-55°C Available) Derate Linearly 2.5% per °C from 50°C to 85°C		
Humidity	0 - 95% Relative Humidity (non-condensing) with standard conformal coating		
Audible Noise	Ø dB @ 3 ft (34.5 dB when fan operating)		
Typical Service Life	> 10 yrs. (87,600 hrs)		
Isolation	Input-Output & Output Case 1500VDC Input-Case 500VDC		
Vibration	Designed to meet the Loose Cargo MIL-SPEC Requirement		
Mechanical Specification			
Length	10.7 in / 27.2 cm		
Width	7.7 in / 19.6 cm		
Height	5.2 in / 13.2 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	12.0 lb / 5.5 kg		
Connections	Standard Dual Decora Style AC Receptacle (Military Connectors available upon request)		
Warranty	3 years (2 yr. extension avail.)		
Safety	Designed to meet CSA 22.2.107.1 & UL458		

Note: Specifications are subject to change without notice.



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