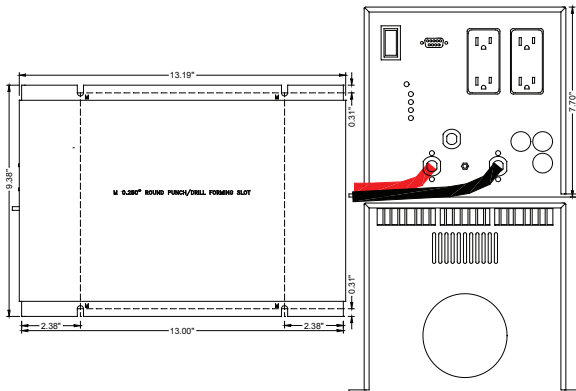




ANALYTIC SYSTEMS

Power Conversion Solutions

DC/AC PURESINE INVERTER MODEL IPS600MS



Description

Computers and highly technical communications systems are moving into 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 them 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 'True Sine Wave' Inverters are designed specifically for running computers and other electronics in mobile and other off-grid locations.

Standard AC receptacle or a variety of customized MIL-SPEC Connectors provide for easy connection. Versions are available to operate from 12V, 24V or 32 Volt battery systems. The IPS600MS series of inverters carry a full two-year warranty

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 www.qbase.com
- 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

Military Features

Most of the products manufactured by Analytic Systems can be adapted for military use (Commercial Off The Shelf).

We provide four different levels of ruggedization; most often, a product in military use will use the extra-wide temperature range components to allow operation up to 55 degrees Celsius.

The printed circuit boards are also protected against condensation and are enhanced with vibration protection that meets or exceeds MIL-STD810D, Method 514-3 and Cat-1 Proc 1.

All C.O.T.S. products are manufactured in accordance with IPC-A-610.

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.analysicsystems.com

DC/AC PURESINE INVERTER

MODEL IPS600MS

Electrical (Input)

Nominal (ip)	12	20
Actual (Vdc)	10.5-16	20-40
Input Amps (max)	107	57
Input Fuse (ATC)	40A x 3	20A x 4

Electrical (Output)

Output Nominal (op)	110	220
Output Volts (AC)	115 ± 5 rms	220 ± 10 rms
Output Amps	5.0 cont. / 7.5 peak	3.2 cont. / 4.8 peak
Output Frequency	60.00 ± 0.01 Hz	50.00 ± 0.01 Hz
Output Type	Pure Sine Wave	
Output Distortion	< 5% at 600 Watts into 0.8 power factor load	
Regulation (Line & Load)	< 5% at 600 Watts into 0.8 power factor load	
Duty Cycle	Peak 20% for 10 min max Continuous 100% for 24 hours per day	
Efficiency	> 80% @ Maximum Output	

Environmental Specification

Operating Temp. Range	-40°C to +55°C @ maximum output Derate Linearly 2.5% per °C from 55°C to 85°C
Humidity	0 - 95% Relative Humidity (non-condensing) with optional conformal coating
Audible Noise	34.5 dB @ 3 ft
Typical Service Life	> 10 yrs. (87,600 hrs)
Isolation	Output-Case & Input-Output 1500VDC Input-Case 500VDC

Mechanical Specification

Length	13.0 in / 33.0 cm
Width	9.0 in / 22.9 cm
Height	7.8 in / 19.8 cm
Clearance	1 inch (2.5 cm) all around
Material	Marine Grade Aluminum
Finish	Black Anodize / Powder Epoxy Coat
Fastenings	All 18-8 Stainless Steel
Weight	22 lb / 10.0 kg
Connections	Dual Decora Style Receptacles OR Standard IEC Plugs for 220VAC
Warranty	2 years

Note: Specifications are subject to change without notice.



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