

Tecknowledgey Inc. 8 John Walsh Blvd Peekskill, NY 10566

Phone: 914-739-4499

eMail: info@tecknowledgey.com Web: www.tecknowledgey.com



Benefits

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



Military Option

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 to -40 degrees Celsius.

The printed circuit boards are also protected against condensation and are enhanced with vibration protection that meets or exceeds MIL-STD810F, Method 514-3 and Cat-1 Proc 1. C.O.T.S. products are designed to meet EMC radiated and conducted emissions standard MIL-STD 461E.

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



DC/AC Puresine Inverters

IPS2000-MS C.O.T.S. Series Inverter

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

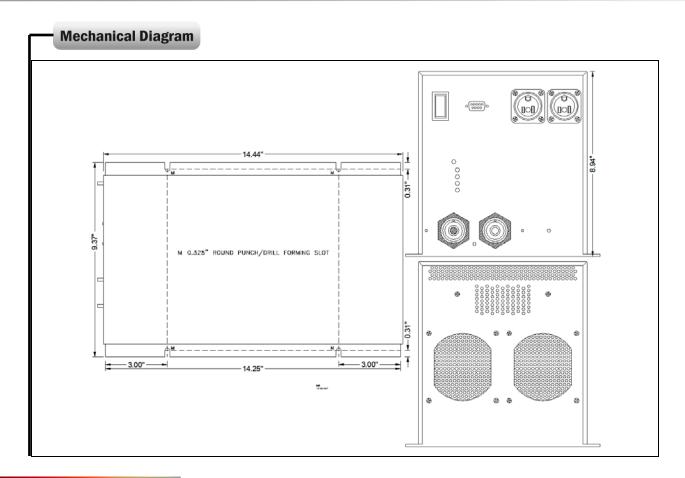
Two standard AC receptacles or a variety of customized MIL-SPEC Connectors provide for easy connection. Versions are available to operate from a 24V, 28V, or 32 volt battery system. The IPS2000 series of inverters carry a standard three-year warranty with an added 2 year extension available.

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
- Two AC receptacles for easy connection of mobile devices (Various Mil Connectors Available as options)
- Isolated input for positive or negative ground operation
- Diagnostic LEDs and Audible Alarms

IPS2000-MS Series DC/AC Inverter Charger



Specification

Electrical (Input)

Nominal (ip)	24
Actual (Vdc)	20 - 40
Input Amps (max)	188
Input Fuse (ATC)	40A x 5

Environmental Specification

-40° to +50°C @ maximum output
Derate Linearly 2.5% per °C from 50°C to 85°C
0 - 95°C Relative Humidity
(non-condensing) with standard conformal coating
34.5 dB @ 3 ft
> 10 yrs. (87,600 hrs)
Input-Output & Output Case 1500VDC
Input-Case 500VDC
Designed to meet MIL-STD 810F, Method 514-3, Cat-I Proc I

Electrical (Output)

Output Nominal (op)	110
Output Volts (AC)	115 ± 5 rms
Output Amps	17.4 cont. / 26.0 peak
Output Frequency	60.00 ± 0.01 Hz
Output Type	Pure Sine Wave
Output Distortion	< 5% at 2000 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

Tecknowledgey Inc. 8 John Walsh Blvd Peekskill, NY 10566

Phone: 914-739-4499

eMail: info@tecknowledgey.com Web: www.tecknowledgey.com

Mechanical Specification

Length	14.3 in / 36.2 cm
Width	9.0 in / 22.9 cm
Height	8.94 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	Military AC Receptacles
Warranty	3 years (2 yr. extension avail.)

