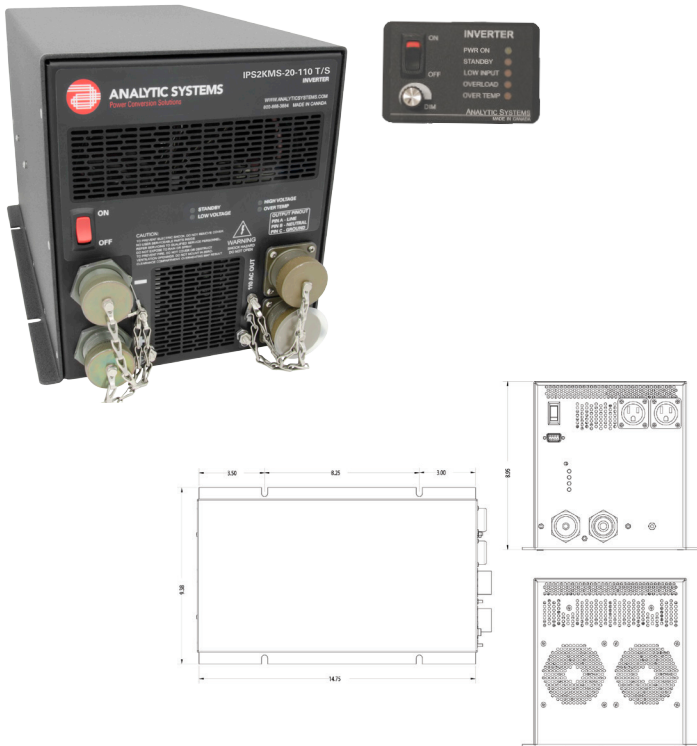


ANALYTIC SYSTEMS

Power Conversion Solutions

DC/AC PURESINE INVERTERS IPS2KMS SERIES



Description

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 IPS2KMS series of inverters carry a standard two-year warranty with an added 2 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
- Overload Protected
- Ultra-quiet low EMI operation
- 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
- Transformer type output to protect computers and other sensitive equipment from surges and spikes
- Low voltage warning and shutdown circuitry to protect the batteries
- Short circuit & Over-temperature protection
- Current Limiting
- Illuminated ON-OFF switch for positive indication of proper operation
- Over voltage and over temperature warning and shutdown circuitry to protect the inverter
- Thermostatically controlled fan
- Two AC receptacles (GFI optional)
- Built to the ISO9100 :2008 / AS9100 Certified Quality Systems
- Isolated input for positive or negative ground operation
- Diagnostic LEDs and Audible Alarms

Military Option

Our standard "MS" military option provides ruggedization features required by many military users including: our extra wide temperature option -40° to $+55^{\circ}\text{C}$

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 various levels of EMC radiated and conducted emissions MIL-STD 461F.

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.analysystems.com

DC/AC C.O.T.S PURESINE INVERTERS

MODEL IPS2KMS SERIES

Electrical (Input)	
Nominal (ip)	24
Actual (Vdc)	20-40
Input Amps (max)	188
Input Fuse (ATC)	40A x 5
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
Environment Specification	
Operating Temp. Range	-40° to +50°C @ maximum output 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	34.5 dB @ 3 ft
Typical Service Life	> 10 yrs. (87,600 hrs)
Isolation	Input-Output & Output Case 1500VDC Input-Case 500VDC
Vibration	Designed to meet MIL-STD 810F, Method 514-3, Cat-I Proc I
Mechanical Specification	
Length	16 in/40.64 cm
Width	8.125 in / 20.64 cm
Height	9 in / 22.9 cm
Clearance	1 inch (2.5 cm) all around
Material	Marine Grade Aluminum
Finish	Black Powder Epoxy
Fastenings	18-8 Stainless
Weight	52.4 lb / 23.77 kg
Connections	Military AC Receptacles
Warranty	2 years

Note: Specifications are subject to change without notice.



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