



ANALYTIC SYSTEMS

Power Conversion Solutions

DC/AC Pure Sine
Inverters

Model
IVS1000



Description

The IVS1000 Series is a highly compact 1000VA DC/AC pure sinewave inverter that uses established design techniques to ensure high reliability.

Suitable for a wide range of applications, the IVS1000 features full electronic protection, high efficiency and low output noise. The built-in fan provides sufficient airflow for operation without de-rating up to 50°C ambient temperature. Extended operating temperature (-40 to +65°C) is available.

The inverter can be loaded with a fluorescent lamp load up to the full-specified output power.

Benefits

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

Design Features

- ◆ Input is filtered to EN 55022 Class A
- ◆ Very low 60Hz input ripple current
- ◆ Compact size, light weight
- ◆ Sinusoidal wave shape
- ◆ Multiple input and output voltages available
- ◆ 1000VA of output power
- ◆ Full electronic protection
- ◆ Field-proven design topology
- ◆ Also available as a frequency converter with 115VAC or 230VAC input

Applications

- ◆ Marine / Automotive / RV
- ◆ Electric Utilities and Substations
- ◆ Telecom Power Plants
- ◆ Manufacturing Locations
- ◆ Steel Mills
- ◆ Military Applications (COTS)
- ◆ Industrial Controls
- ◆ OEM Applications
- ◆ Solar / Alternative Power Systems
- ◆ Fuel Cells

DC/AC Pure Sinewave Inverters IVS1000

Input Voltage	24V, 36V, 48V, 125V, 250VDC +/-15% are standard Other inputs available, please consult factory
Input Protection	Thermal fuse, Inrush current limiting, Reverse polarity protection, Varistors, Lower voltage than specified input min. will not damage unit
Isolation	Input to chassis 500VDC for < 60V input, 1500VDC for > 60V input Input to output 2250VDC, Output to chassis 2250VDC
Output Voltage	115VAC/60Hz or 400Hz @8.7A 230VAC/50Hz @ 4.35A continuous with grounded neutral. Isolated floating output optional (Consult factory for other voltages and frequencies)
Wave Form	Sinusoidal
Total Harmonic Distortion	Less than 5% at full load
Efficiency	Min 76% at full load
Line Regulation	Maximum 0.5%
Load Regulation	Maximum \pm 6% from 10% load to full load \pm 2% load regulation option available
Output Protection	Current limiting with short circuit protection, thermal shutdown with automatic recovery in case of continuous overload or insufficient airflow
Output Overvoltage Protection	140/280 V by internal supply voltage limiting
EMI	Meets EN 55022 Class A as a minimum
Load Crest Factor	Maximum 2.5 at 90% load
Output Noise	High frequency ripple is better than 500m Vrms (20MHzBW)
Operating Temperature Range	0° C to +50° C
Humidity	5 - 95% non-condensing
Temperature Drift	0.05% per °C over operating temperature range
Cooling	Build-in fan drawing air into the unit
Environmental Protection	Basic ruggedizing Full ruggedizing and conformal coating as option
Dimensions	7.5" x 5.3" x 15.5" (W x H x L) including terminal block and flanges
Connections	Input: Compression-type terminal Output: Standard AC receptacle
Weight	13.0 lb (5.9 kg)
Safety	Compliance to C22.2 No. 107.1 - 01 and UL 458 and EN60950
Options	Output Fail Alarm (Form C) Remote Inhibit: By closing external contacts on the inhibit terminals

Note: Specifications are subject to change without notice.

Warranty: Twenty four months subject to application within good engineering practice
Enhancements to these general specifications can be accommodated upon request
Designed to meet common approval requirements. Specifications Subject to Change Without Notice
Designed and Manufactured in Canada



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