ANALYTIC SYSTEMS
Power Conversion Solutions

DC/AC Pure Sine Inverters

Model IVS300

Description

The IVS300 Series is a highly compact DC/AC inverter that uses established design techniques to ensure high reliability.

Suitable for a wide range of applications, the IVS300 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 B
- Very low 60Hz input ripple current
- Compact size
- Modular design, light weight
- Sinusoidal wave shape
- Multiple input and output voltages available
- 300VA of output power
- Full electronic protection
- Field-proven design topology

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

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www.analyticsystems.com

DC/AC Pure Sinewave Inverters
IVS300

Input Voltage	24V, 36V, 48V, 125V, +/-15% are standard Other inputs available, please consult factory
Input Protection	Thermal fuse, Inrush current limiting, Reverse polarity protection
Isolation	Input to chassis 500VDC for <60V input / 1500 VDC for > 60V input Input to output 2250VDC / Output to chassis 2250VDC
Output Voltage	115VAC / 60Hz or 400Hz @ 2.6A continuous OR 230VAC / 50 Hz @ 1.3A 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 80% at full load
Line Regulation	Maximum ± 0.5%
Load Regulation	Max. ± 6% from 10% load to full load (± 1% option available)
Output Protection	Current limiting with short circuit protection; Thermal shutdown with automatic recovery in case of continuous overload or insufficient airflow
EMI	Meets EN 55022 Class A as a minimum
Load Crest Factor	Maximum 3.0 at 90% load
Operating Temperature Range	0° C to +50° C Extended temperature range available
Humidity	5 - 95% non-condensing
Temperature Drift	0.05% per ° C over operating temperature range
Dimensions	6.0" x 2.63" x 13.82" enclosed case (H x W x L)
Connections	Input: Compression-type terminal Output: Standard AC receptacle
Weight	4.6 lbs (2.1 kg)
Safety	Compliance to C22.2 No. 107.1 - 01 and UL 458

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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