



ANALYTIC SYSTEMS

Power Conversion Solutions

DC/AC Pure Sine
Inverters

Model
IVS3000R



Description

The IVS3000R Series is a compact 3000VA DC/AC pure sinewave inverter that uses established design techniques to ensure high reliability.

Suitable for a wide range of applications, the IVS3000 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.

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
- ◆ Modular design, light weight
- ◆ Sinusoidal wave shape
- ◆ Multiple input and output voltages available
- ◆ 2500VA 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

DC/AC Pure Sinewave Inverters

IVS3000R Series Pure Sinewave Inverters

Input Voltage	24, 32, 48, 125, and 250VDC are standard (Operating range +/-15% of nominal) Other inputs available - please consult factory
Input Protection	Thermal fuse, Inrush current limiting, Reverse polarity protection
Isolation	1400VDC input to output, input to chassis / 500VDC output to chassis
Output Voltage	115V rms / 26A rms or 220VAC / 13.6A (50 or 60Hz standard) Consult factory for other voltages and frequencies
Wave Form	Sinusoidal
Total Harmonic Distortion	Less than 5% at full load
Efficiency	Min 82% at full load
Line Regulation	Maximum 0.5%
Load Regulation	Maximum $\pm 6\%$ from 10% load to full load ($\pm 1\%$ option available)
Output Noise	High frequency ripple is better than 500mV rms (20MHz BW)
Output Protection	Current limiting with short circuit protection, thermal shutdown with automatic recovery in case of continuous overload or insufficient airflow
RFI Suppression	Meets requirements of EN55022, Class A conducted emissions as a minimum
Output Over-voltage Protection	By internal supply voltage limiting at 140VAC on output
Output Over-load Protection:	Hiccup at 6,000W
Load Crest Factor	Maximum 2.5 at 90% load
Operating Temperature Range	0° C to +50° C
Humidity	5 - 95% non-condensing
Temperature Drift	0.05% per °C over operating temperature range
Dimensions	4U x 19" rack-mount enclosure. Depth is 17" maximum Depending on input
Connections	Input: Compression-type terminal Output: Standard AC receptacle
Weight	55 lb (31.8 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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