



ANALYTIC SYSTEMS

Power Conversion Solutions

DC/AC Pure Sine
Inverters

Model
IVS4000R



Description

The IVS4000R Series is a compact 4000VA DC/AC pure sinewave inverter that uses established design techniques to ensure high reliability.

Suitable for a wide range of applications, the IVS4000R 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 A
- ◆ Very low 60Hz input ripple current
- ◆ Modular design
- ◆ Sinusoidal wave shape
- ◆ Multiple input and output voltages available
- ◆ 4000VA 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

IVS4000R Series Pure Sinewave Inverters

Input Voltage	24V (21-29 VDC) / 48V (42-56VDC) / 125VDC (Operating range 100...150VDC) / 250VDC nominal (Operating range 220...275VDC) Other inputs available-please consult factory
Input Protection	Thermal fuse, Inrush current limiting, Reverse polarity protection
Isolation	<u>For 125VDC input version:</u> 2250VDC input to output; 1700VDC input to chassis; 2250VDC output to chassis <u>For 250VDC input version:</u> 2250VDC input to output; 2400VDC input to chassis 2250VDC output to chassis
Output Voltage	115Vrms / 34A rms or 220VAC/ 18A (50 or 60Hz standard) 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 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
EMI / 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 & Weight	6U x 19" rack-mount enclosure / Depth is 16" maximum / 53 lb (24.1 kg)
Connections	Input: Compression-type terminal Output: Standard AC receptacle
Safety	Compliance to C22.2 No. 107.1 - 01 and UL 458
Input Voltage	24V (21-29 VDC) / 48V (42-56VDC) / 125VDC (Operating range 100...150VDC) / 250VDC nominal (Operating range 220...275VDC) Other inputs available-please consult factory

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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8128 River Way, Delta B.C. V4G 1K5 Canada T. 604.946.9981 F. 604.946.9983 TF. 1.800.668.3884 (US/CANADA)

www.analyticssystem.com