



# ANALYTIC SYSTEMS

*Power Conversion Solutions*

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## Benefits

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

## 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-Sine Inverters

### IVS4000R Series Pure Sinewave Inverter

## 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.

## 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

# IVS4000R Series Pure Sinewave Inverters

## Specifications

<b>Input Voltage</b>	24V (21-29 VDC) / 48V (42-56VDC) / 125VDC (Operating range 100...150VDC) / 250VDC nominal (Operating range 220...275VDC) Other inputs available-please consult factory
<b>Input Protection</b>	Thermal fuse, Inrush current limiting, Reverse polarity protection
<b>Isolation</b>	<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
<b>Output Voltage</b>	115Vrms / 34A rms or 220VAC/ 18A (50 or 60Hz standard) with grounded neutral. Isolated floating output optional (Consult factory for other voltages and frequencies)
<b>Wave Form</b>	Sinusoidal
<b>Total Harmonic Distortion</b>	Less than 5% at full load
<b>Efficiency</b>	Min 82% at full load
<b>Line Regulation</b>	Maximum 0.5%
<b>Load Regulation</b>	Maximum $\pm 6\%$ from 10% load to full load ( $\pm 1\%$ option available)
<b>Output Noise</b>	High frequency ripple is better than 500mV rms (20MHz BW)
<b>Output Protection</b>	Current limiting with short circuit protection, thermal shutdown with automatic recovery in case of continuous overload or insufficient airflow
<b>EMI / RFI Suppression</b>	Meets requirements of EN55022, Class A conducted emissions as a minimum
<b>Output Over-voltage Protection</b>	By internal supply voltage limiting at 140VAC on output
<b>Output Over-load Protection:</b>	Hiccup at 6,000W
<b>Load Crest Factor</b>	Maximum 2.5 at 90% load
<b>Operating Temperature Range</b>	0° C to +50° C
<b>Humidity</b>	5 - 95% non-condensing
<b>Temperature Drift</b>	0.05% per ° C over operating temperature range
<b>Dimensions &amp; Weight</b>	6U x 19" rack-mount enclosure / Depth is 16" maximum / 53 pounds (24.1 kg)
<b>Connections</b>	Input: Compression-type terminal Output: Standard AC receptacle
<b>Safety</b>	Compliance to C22.2 No. 107.1 - 01 and UL 458

**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

Available From:



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Quality since 1976

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