



ANALYTIC SYSTEMS

Power Conversion Solutions

DC/AC Pure Sine
Inverters

Model
IVS1500



Description

The IVS1500 Series is a compact 1500VA DC/AC inverter that uses established design techniques to ensure high reliability.

Suitable for a wide range of applications, the IVS1500 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.

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
- ◆ Modular design, light weight
- ◆ Sinusoidal wave shape
- ◆ Multiple input and output voltages available
- ◆ 1500VA 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

IVS1500

Input Voltage	24V, 36V, 48V, 125V, 270VDC +/-20% 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, 1500VDC for > 60V input Input to output 2250VDC, Output to chassis 2250VDC
Output Voltage	115VAC / 13A or 230VAC / 6.5A continuous at 50, 60, or 400 Hz 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 78% at full load
Line Regulation	Maximum 0.5%
Load Regulation	Maximum $\pm 6\%$ from 10% load to full load. $\pm 1\%$ 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 B
Load Crest Factor	Maximum 3.0 at 90% load
Operating Temperature Range	0° C to +50° C Extended range available (Consult factory)
Humidity	5 - 95% non-condensing
Temperature Drift	0.05% per °C over operating temperature range
Dimensions	5.3" X 13.8" x 16.75" (H x L x W) enclosed case
Connections	Input: Compression-type terminal Output: Standard AC receptacle
Weight	25 pounds (11.35 Kg)
Safety	Compliance to C22.2 No. 107.1 - 01 and UL 458
Options	Output Fail Alarm (Form C) Remote Inhibit: By connecting DC voltage (as specified) to 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