



ANALYTIC SYSTEMS

Power Conversion Solutions

DC/AC Pure Sinewave
Inverters

Model
IVS100



Description

The IVS100 Series is a compact 100VA DC/AC inverter that utilizes the same established conversion topologies as Analytic Systems' higher power inverters.

The DC/DC input stage boosts the input voltage to a higher DC voltage, which feeds the DC/AC converter to generate the required AC output. This use of high frequency transformers ensures a lightweight design.

Suitable for a wide range of applications, the IVS100 features full electronic protection, high efficiency and low output noise.

Benefits

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

Design Features

- ◆ Input is filtered to EN 55022 Class B
- ◆ Compact size
- ◆ Modular design, light weight
- ◆ Sinusoidal wave shape
- ◆ Multiple input and output voltages available
- ◆ 100VA of output power
- ◆ Full electronic protection
- ◆ Field-proven design topology
- ◆ Plug-in or stand-alone package

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 IVS100

Input Voltage	24V, 36V, 48V, 125VDC +/-20% are standard Other inputs available, please consult factory
Input Protection	Thermal fuse, Inrush current limiting, Reverse polarity protection
Isolation	Input to chassis 500VDC Input to output 2250VDC Output to chassis 2250VDC
Output Voltage	115VAC/60Hz @0.87A continuous 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	± 0.5% max.
Load Regulation	Max. ± 6% from 10% load to full load (± 1% option available)
Output Protection	Current limiting with short circuit protection
EMI	Meets EN 55022 Class B
Load Crest Factor	Maximum 3.0 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	Plug-in: 3U x 160mm x 10HP (2") Stand alone: 4.2" x 7.8" x 2.0"
Connections	Plug-in module: H15 Stand-alone: screw-type terminal block for input and output Consult factory for other connectors
Weight	2.0 lb (0.9kg)
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



ANALYTIC SYSTEMS
Power Conversion Solutions

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.analyticssystems.com