



ANALYTIC SYSTEMS

Power Conversion Solutions

DC/AC Pure Sinewave
Inverters

Model
IVS200



Description

This rugged DC/AC inverter uses field proven, microprocessor controlled high frequency PWM technology to generate 200VA output power with pure sine wave output voltage. It is a mature design with a track record in numerous applications. The DC/DC input stage boosts the input voltage to a higher DC voltage, which feeds the DC/AC inverter to generate the required AC output. The use of high frequency conversion enables a compact construction, low weight and high efficiency. The unit has full electronic protection. The input and output are filtered for low noise. Cooling is via baseplate to a heatsinking surface and by natural convection. The use of components with established reliability results in high MTBF. The unit is manufactured at our plant under strict quality control.

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 A
- ◆ Very low 60Hz input ripple current
- ◆ Compact size
- ◆ Modular design, light weight
- ◆ Sinusoidal wave shape
- ◆ Multiple input and output voltages available
- ◆ 200VA 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 IVS200

Input Voltage	24V, 36V, 48V, 125VDC, +/-15% are standard Other inputs available, please consult factory
Input Protection	Thermal fuse, Inrush current limiting, Reverse polarity protection, Varistors, Lower voltage than specified input min. will not damage unit
Isolation	Input to chassis 500VDC for <60V input / 1500 VDC for > 60V input Input to output 2250VDC / Output to chassis 2250VDC
Output Voltage	115VAC / 60Hz or 400Hz @ 1.7A continuous or 230VAC/50Hz @ 0.86 continuous with isolated floating output optional
Wave Form	Sinusoidal
Total Harmonic Distortion	Less than 5% at full load
Efficiency	Input voltage dependent . 80% at full load
Line Regulation	± 0.5% max.
Load Regulation	Max. ± 3% from no load to full load
Output Protection	Current limiting with short circuit protection; Thermal shutdown with automatic recovery in case of continuous overload or insufficient cooling
Output Overvoltage Protection	140/280 V by internal supply voltage limiting
EMI	Meets EN 55022 Class A as a minimum
Load Crest Factor	Maximum 3.0 at 90% load
Output Noise	High frequency ripple is better than 500m Vrms (20MHzBW)
Operating Temperature Range	0° C to +50° C. Extended temperature ranges available
Humidity	5 - 95% non-condensing
Temperature Drift	0.05% per °C over operating temperature range
Cooling	Conduction/convection (no fan)
Environmental Protection	Basic ruggedizing
Dimensions	5.2" x 2.5" x 11.4" (W x H x L) including terminal block and flanges
Connections	12-pole barrier-type terminal block with 3/8" spacing
Weight	4.4 lbs (2Kg)
Safety	Compliance to C22.2 No. 107.1 - 01 and UL 458 and EN60950
Options	Output Fail Alarm (Form C) Remote Inhibit: By closing external contacts on 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



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