

# IVS200 DC/AC Pure-Sinewave Inverter



## Benefits

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

## Applications

- Railway / Transportation
- Mining
- Oil Rigs
- Military Applications
- Marine / Automotive / RV
- Electric Utilities and Substations
- Telecom Power Plants
- Manufacturing Locations
- Steel Mills
- Industrial Controls
- OEM Applications

## DC/AC Inverters

### IVS200 Series Pure-Sinewave

#### Description

This rugged DC/AC inverter uses field proven, microprocessor controlled high frequency PWM technology to generate 200VA output power with pure sin 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.

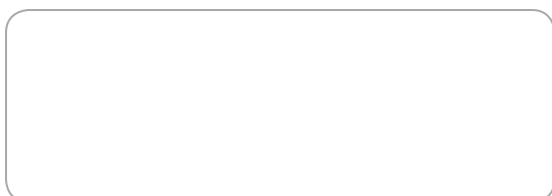
#### Features

- Input is filtered to EN 55022 Class A
- Very low input ripple current
- Compact size, light weight
- Sinusoidal wave shape
- 200VA of output power
- Full electronic protection
- Field-proven design topology

# Specifications ( Specifications Subject to Change Without Notice)

<b>Input Voltage</b>	24V, 36V, 48V, 125Vdc +/-15% are standard Consult factory for other inputs
<b>Input Protection</b>	Inrush current limiting Varistor Reverse polarity protection Internal safety fuse Lower voltage than the specified minimum input will not damage the unit
<b>Isolation</b>	Compliant to input and output voltages according to the corresponding standards
<b>Output Voltage</b>	115Vac/1.7A continuous at 60Hz or 400Hz; or 230Vac/0.86 continuous at 50Hz Isolated floating output optional Consult factory for other output requirements
<b>Output Wave Form</b>	Sinusoidal
<b>Total Harmonic Distortion</b>	Less than 5% at full load
<b>Efficiency</b>	Input voltage dependent Typically 80% at full load
<b>Line / Load Regulation</b>	Maximum $\pm 2\%$ from no load to full load
<b>Output Overload Protection</b>	Current limiting with short circuit protection
<b>EMI</b>	EN55022 Class A as a minimum
<b>Standards</b>	Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950
<b>Load Crest Factor</b>	Maximum 3.0 at 90% load
<b>Output Ripple Noise</b>	High frequency ripple is better than 500mVrms (20MHz BW)
<b>Operating Temperature Range</b>	0°C to +50°C for full specification without derating. Extended temperature ranges available
<b>Humidity</b>	5 - 95% non-condensing
<b>Temperature Drift</b>	0.05% per °C over operating temperature range
<b>Cooling</b>	Conduction to customer heatsink or chassis and natural convection
<b>Environmental Protection</b>	Basic ruggedizing Full ruggedizing and conformal coating as option
<b>Shock/Vibration</b>	IEC 61373 Cat 1 A & B
<b>Dimensions</b>	F3: 132 x 62 x 300 mm (H x W x L) including terminal block and flanges
<b>Connections</b>	Barrier type terminal block with 3/8" spacing
<b>Weight</b>	2 Kg
<b>MTBF</b>	130,000 hours at 45°C Demonstrated MTBF is significantly higher
<b>Indicators</b>	None
<b>Control Input</b>	None
<b>Alarm output</b>	Optional output fail alarm (Form C)
<b>RoHS Compliance</b>	Fully compliant
<b>Warranty</b>	2 years

Available from:



## RIPEnergy®

The power conversion company

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