

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 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.

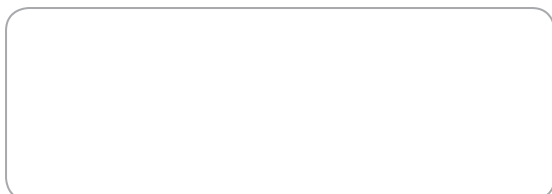
Features

- 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)

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

Available from:



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The power conversion company

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