

# IVSrail200-2EFTE 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

### IVSrail200 Series Pure-Sinewave

#### Description

This rugged DC/AC inverter uses a microprocessor controlled field proven topology to generate the required output power.

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 ensures a compact construction and low weight.

It features full electronic protection, high efficiency and low output noise.

Cooling is via baseplate to a heatsinking surface and by natural convection.

The use of components with established reliability results in a high MTBF.

The unit is manufactured at our plant under strict quality control.

Special Features: Railway application, control signal

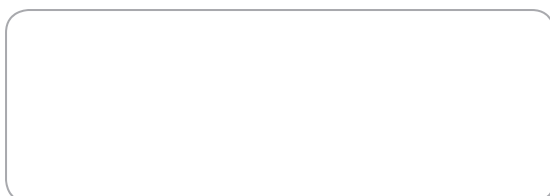
#### Features

- Input is filtered to EN 55022 Class A
- Very low input ripple current
- Compact size, light weight
- Sinusoidal wave shape
- 150VA of output power
- Full electronic protection
- Field-proven design topology

# Specifications ( Specifications Subject to Change Without Notice)

<b>Input Voltage</b>	24Vdc nominal Operating range 19-31V (as requested) Input Current: 10A max.
<b>Input Protection</b>	Inrush current limiting Reverse polarity protection Internal safety fuse Lower voltage than the specified minimum input will not damage the unit
<b>Isolation</b>	1000VDC Input to chassis 1000VDC Input to output 2250VDC output to chassis
<b>Output Voltage</b>	230VAC / 50Hz / 0.65A Output is floating
<b>Wave Form</b>	Sinusoidal
<b>Total Harmonic Distortion</b>	Less than 5% at full load
<b>Efficiency</b>	78% at full load
<b>Load Regulation</b>	Maximum $\pm 2\%$ from 10% load to full load
<b>Output Overload Protection</b>	Current limiting with short circuit protection, thermal shutdown in case of insufficient cooling
<b>EMI</b>	EN55022 Class A with margins
<b>Immunity</b>	Meets criteria as requested in EN50155 and EN50121-3-2 according to the following standards: EN 61000-4-2 (ESD) EN 61000-4-3 (RF Immunity) EN 61000-4-4 (Fast Transients) EN 50155 (Surge) EN 61000-4-6 (Conducted Immunity) EN 50155 (Voltage Variations)
<b>Load Crest Factor</b>	Maximum 3.0 at 90% load
<b>Output Ripple Noise</b>	Better than 800mVrms (20MHz BW)
<b>Operating Temperature Range</b>	-10 to +50°C cold-plate temperature (as requested)
<b>Humidity</b>	5 - 95% non-condensing
<b>Temperature Drift</b>	0.05% per °C over operating temperature range
<b>Cooling</b>	Conduction / convection
<b>Environmental Protection</b>	Ruggedizing, Conformal coating
<b>Shock/Vibration</b>	IEC 61373 Cat 1 A & B
<b>Dimensions</b>	132 x 62 x 300 mm (H x W x L) Mounting holes are clear
<b>Connections</b>	Barrier type terminal block with 3/8" spacing
<b>Weight</b>	2.2 Kg
<b>MTBF</b>	150,000 hours at 45°C
<b>Indicators</b>	None
<b>Control Input</b>	Signal 24VDC -> Inverter ON, Signal 0VDC -> Inverter OFF
<b>Alarm output</b>	None
<b>RoHS Compliance</b>	Fully compliant
<b>Warranty</b>	2 years

Available from:



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The power conversion company

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