

IVS1000-F Series DC/AC Pure-Sinewave Inverter



Benefits

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

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 Inverters

IVS1000-F Series Pure-Sinewave

Description

IVS1000-F Series rugged, compact DC/AC Inverter uses field proven topology to generate 1000W output power.

It is a mature design with a track record in hundreds of 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.

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

The unit requires conduction cooling to customer chassis, cabinet or heatsink.

Perforations on the case assist cooling by air convection.

This chassis-mount design is optimized for low component count and high efficiency. The use of components with established reliability results in a high demonstrated MTBF.

IVS1000-F is manufactured at our plant under strict quality control.

Versions meeting EN 50155 railway specifications and customized versions are also available.

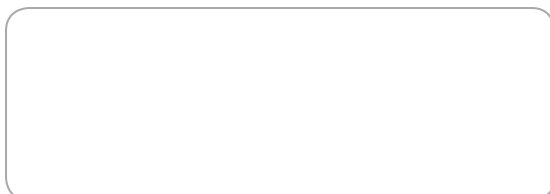
Features

- Rugged construction
- Conduction/convection cooling
- Sinusoidal output voltage
- Filtered input
- Full electronic protection
- Field-proven design topology

Specifications (Specifications Subject to Change Without Notice)

Input Voltage	24VDC, 36VDC, 48VDC, 125VDC, 250VDC +/-15% are standard Other inputs available, please consult factory
Input Protection	Inrush current limiting Varistors Reverse polarity protection Internal safety fuse Lower voltage than the specified minimum input will not damage the unit
Isolation	500Vdc input to chassis for input voltages up to 48Vdc 1700Vdc input to chassis for input voltage 125Vdc 2250Vdc input to chassis for input voltage 250Vdc 2250Vdc input to output Output neutral is connected to the chassis, internally Floating output as option
Output Voltage	115VAC / 60Hz or 400Hz / 8.7A or 230VAC / 50Hz / 4.34A Output neutral is connected to the chassis internally. Isolated floating output optional Consult factory for other output requirements
Wave Form	Sinusoidal
Total Harmonic Distortion	Less than 5% at full load
Efficiency	Input voltage dependent Typically 80% at full load
Line Regulation	Maximum 0.5%
Load Regulation	Maximum \pm 6% from no load to full load (\pm 2% option available)
Output Protection	Current limiting with short circuit protection, thermal shutdown with automatic recovery in case of continuous overload or insufficient cooling
Output Overvoltage Protection	140/280V by internal supply voltage limiting
EMI	Meets EN 55022 Class A as a minimum
Load Crest Factor	Maximum 3.0 at 90% load
Efficiency	Depends on input and output voltage combination. Typically 76% at full load
MTBF	Min. 140,000 hours at 45°C. Demonstrated MTBF is significantly higher
Operating Temperature Range	-20° C to +50° C cold-plate temperature
Humidity	5 - 95% non-condensing
Temperature Drift	0.05% per °C over operating temperature range
Cooling	By conduction/convection
Environmental Protection	Basic ruggedizing
Dimensions	67 x 483 x 355 mm (H x W x L) including terminal blocks and flanges. Mounting holes are clear.
Connections	Input: Compression-type terminal Output: Compression-type terminal
Weight	7 Kg
Safety	Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950
Indicators	None
Control Input	None, remote shutdown as option
Alarm output	None, 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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