RSI150-FT SERIES

DC / AC Sine Wave Inverters: 150 VA





Features

- Designed for Rail applications to EN 50155
- Sinusoidal output waveform
- 150VA output power
- Convection cooled No Fans
- Frequency options 50Hz / 60Hz / 400Hz
- Wide range of input options: 24 ~ 125VDC
- Optional output fail alarm on some models
- Low profile 57mm
- Rugged design for harsh environments
- Full electronic protection
- Non standard input voltage options

General Specifications

Input Voltage 24VDC, (15-34) 36VDC (22-51)

> 48VDC (28-67) 72VDC (43-101) 96VDC (58-135) 125VDC (66-154)

Input Protection Inrush current limiting

Internal safety fuse,

Reverse Polarity Protection

Input - Output: 3000vdc Isolation

Input - Chassis: 1500vdc

EMI EN50121-3-2 Conducted & Radiated

EN50155 (Surge) **Immunity** EN50121-3-2,

EN61000-4-2 (ESD), EN61000-4-3 (RF) EN61000-4-4 (Fast Transients) EN61000-4-6 (Conducted Immunity) EN50155 (Voltage Variations)

Output voltage 115VAC / 230VAC options

Output neutral connected to chassis internally.

Isolated / Floating output option.

Output Waveform Sinusoidal

Harmonic Less than 5% at 100% load.

Distortion

Output Freq.

50Hz, 60Hz, 400Hz options

Load Crest Factor Maximum 3% at 90% load

Output Power 150VA

Load: ±2% from 10% to 100% load step. Regulation

Line: ±1.0% over input range

Output Noise High Frequency ripple is better than

500mVrms (20MHz BW)

Current limiting with short circuit protection Protection

Self re-setting thermostat for thermal

protection

Output Over Output voltage is limited by internal supply Voltage Protection

Efficiency Input voltage / model dependent typically

80% at 100% load

Operating Temp -25°C to +50°C at rated load.

Other options on request

Convection / Conduction cooled Cooling

Shock & Vibration Designed to meet IEC61373 Cat 1 A & B

Humidity 5-95% non-condensing **MTBF** >150,000 hrs at 45°C

LED Indicator Optional

Connector Terminal block, other options on request

Dimensions 114 x 58 x 256mm (F2) / 1.2kg

Description

The RSI150 is rugged DC/AC inverter is designed for a variety of Rail applications and designed to meet EN50155.

It uses field proven, microprocessor controlled high frequency PWM technology to generate 150VA output power with pure sine wave output voltage.

It is a mature design with a track record in numerous Rail & Industrial 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.

Options (may not be available on all combinations)

Output Fail Alarm: voltage free relay contacts **Alarms**

Remote ON / OFF Remote Inhibit

Ruggedized Conformal coating and Ruggedization for use in

harsh environments.

Slow start up option for powering fans Slow Start

A variety of terminals / connectors available to suit Connector

special customer requirements

2U x 19in Rack Mount **Rack Mount**

Model No Example:

RSI150-4E-FT (48VDC / 230VAC 50Hz)

RSI	Power	Input Vdc	Output	Factory Allocated
		2 = 24V	A = 115V/60Hz	
RSI	150	3 = 36V	E = 230V/50Hz M = 115V/400Hz	
		4 = 48V		
		7 = 72V		
		9 = 96V		
		5 = 125V		

- Standard input / Output combinations are illustrated.
- Non standard combinations are available on request
- Final Part no will be allocated at time of order to reflect customer specifications and options.

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