500VA, Low Profile, Sine Wave Inverter for Railway Applications
RSI 500–XX–FT Series

- Input is filtered to EN 55022 Class B
- Low profile, compact size
- Sinusoidal wave shape
- 500VA output power
- Conduction/convection cooled - no fan
- Full electronic protection
- Field-proven design topology

The RSI 500-XX-FT Series low profile, DC/AC inverter utilizes microprocessor controlled high frequency PWM technology to deliver 500VA sine wave power. It is ruggedized and conformal coated to ensure reliability in railway applications. This inverter is conduction/ convection cooled and rated for operation over a 0°C to 50°C ambient temperature range. A -40°C to +65°C temperature range is available as an option. The RSI 500-XX-FT features full electronic protection, high efficiency and filtering to meet EN55022 Class B EMI requirements.

SPECIFICATIONS

Input Voltage
110Vdc (77 – 154Vdc)
Consult factory for other inputs

Input Protection
Thermal fuse
Inrush current limiting
Reverse polarity protection

Isolation
Input to chassis: 1500Vdc
Input to output: 3000Vdc
Output to chassis: 2250Vdc

Designed to meet
C22.2 No. 107.1 - 01,
UL 458 , EN60950
and EN50155

Immunity
Meets EN50155 and
EN50121-3-2

EMI
EN 55022 Class B

Output Voltage
115VAC/4.4A continuous at 60Hz or 400Hz; or
230VAC/2.2A continuous at 50Hz, with grounded neutral.
Isolated floating output optional
Consult factory for other outputs

Wave Form:
Sinusoidal

Total Harmonic Distortion
Less than 5% at full load

Line Regulation
Maximum 0.5%

Load Regulation
Maximum ± 6% from no load to full load. A 2% load regulation option is available.

Output Protection
Current limiting with short circuit protection
Thermal shutdown with automatic recovery in case of insufficient cooling

Efficiency
Min 78% at full load

Load Crest Factor
Maximum 3.0 at 90% load

Operating Temperature Range
0^{o}C to +50°C. Wider temperature range as option.

Temperature Drift
0.05% per °C over operating temperature range

Humidity
5 - 95% non-condensing

Cooling
Conduction/ convection

Environmental Protection
Ruggedized, conformal coated

Dimensions
10” x 2.58” x 13.8” enclosed case (W x H x D)

Connections
Input & output:
Compression-type terminal

Weight
9lb, 4.2kg

Warranty: Twelve months subject to application within good engineering practice
Enhancements to these general specifications can be accommodated upon request
Specifications are subject to change

Designer and manufacturer of quality converters, inverters, UPS systems, complete rack mount systems and DC-input fluorescent lamp inverters since 1982. Custom or standard.
Absopulse is a BABT-approved Facility

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