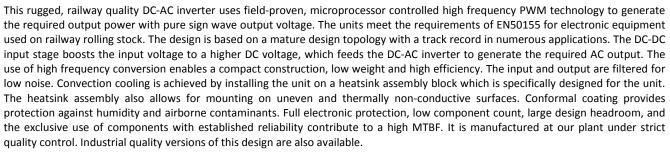
1000VA Railway Quality DC-AC Sine Wave Inverters with Convection Cooling by Heatsink Assembly Fins for Railway and other Heavy-Duty Applications

RSI 1K-HSA-F31 Series

- Sinusoidal wave shape
- Field-proven rugged design
- For train and mobile applications
- Meets requirements of EN50155
- Convection cooling via heatsink assembly
- Full electronic protection



SPECIFICATIONS

Input Voltage

36Vdc (25 - 51V) 48Vdc (33 - 67V)

72Vdc (50 - 101V)

96Vdc (67 - 135V)

110Vdc (77 - 154V)

24Vdc (17 - 34V) with derating to 750VA

Consult factory for other input voltages and ranges

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

1500Vdc input to chassis/output Output neutral is connected to the chassis internally.

Standards

Designed to meet C22.2 No. 107.1 - 01, UL 458, EN60950-1 and EN50155

Immunity

Meets criteria of EN50155 and EN50121-3-2 including EN 61000-4-2 (ESD) EN61000-4-3 (RF Immunity) EN61000-4-4 (Fast transients) EN50155 (Surge) EN61000-4-6 (Conducted Imm.)

EN50155 (Voltage Variations)

EMI

EN50121-3-2

Output Voltage

. 115Vac/8.7Arms continuous at 60Hz or 400Hz; or 230Vac/4.3Arms continuous at 50Hz

Output neutral is connected to the chassis internally. Isolated floating output available

Output Wave Form

Sinusoidal

on request

Total Harmonic Distortion

Less than 5% at full load

Line/Load Regulation

 \pm 6% from no load to full load \pm 2% load regulation option is available.

Load Crest Factor

2.0 at 90% load

Output Noise

High frequency ripple is less than 500mVrms (20MHz BW)

Output Overload Protection

Current limiting with short circuit protection

Thermal shutdown with automatic recovery in case of insufficient

Output Overvoltage Protection

140Vac (for 115Vac output) or 280Vac (for 230Vac output) by internal supply voltage limiting

Efficiency

Input voltage dependent Typically 80% at full load

Operating Temperature

-25°C to +55°C ambient temperature range for full specification without derating. Consult factory for extended temperature range

Temperature Drift

0.05% per °C over operating temperature range

Natural air convection

Environmental Protection

Ruggedizing Conformal coating

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5 - 95% non-condensing

120,000 hours at 45 °C Demonstrated MTBF is significantly higher

Indicators

None

Control Input

None

Optional remote shut down

Alarm Output

None installed Optional Output Fail Alarm (Form C)

Dimensions (W x H x L)

F31 enclosure installed on HSA F31 heatsink assembly Overall dimensions: 572 x 150 x 356 mm 22.5" x 5.9" x 14" Mounting holes are clear

9kg (19.8 lbs)

Connections

Input: Suitable terminals for input current

Output: 3-pole terminal block with 13mm spacing

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice

ABSOPULSE power supplies are designed and built to customer requirements. The specifications on this data sheet are generic guidelines only and are subject to change.

OEM of industrial and railway quality DC-DC converters, AC-DC power supplies and battery chargers, DC-AC sine-wave inverters, phase and frequency converters, DC-output UPS systems and complete power systems in 19" and 23" racks since 1982. Custom or standard. ABSOPULSE is a BABT-approved Facility.



110 Walgreen Road, Ottawa. Ontario. KOA 1LO. CANADA Tel: +1-613-836-3511 | Fax: +1-613-836-7488 https://absopulse.com/contact | https://www.absopulse.com