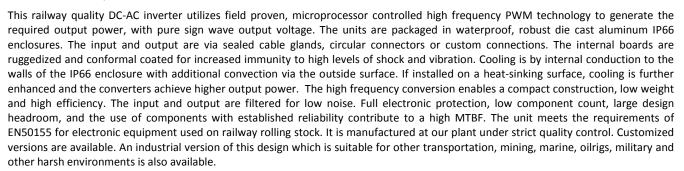
300VA, IP66-Rated, Rugged, Railway Quality DC-AC Sine Wave Inverter RSI 300-D3 Series (IP66)

- Packaged in waterproof IP66 enclosure
- EN50155 input ranges
- For train and mobile applications
- Internal module ruggedized and conformal coated
- Rugged, field-proven design
- Full electronic protection



SPECIFICATIONS

Input Voltage

24Vdc (17-34V) 48Vdc (33 – 67V) 72Vdc (50 – 101V) 96Vdc (67 – 135V) 110Vdc (77 – 154V) 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 3000Vdc input to output 1500 output to chassis

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 @60Hz or 400Hz/2.6Arms continuous; or 230Vac @ 50Hz/1.3Arms continuous Isolated floating output Consult factory for other output requirements

Output Wave Form

Sinusoidal

Total Harmonic Distortion

Less than 5% at full load

Line/Load Regulation

 \pm 3% from no load to full load.

Load Crest Factor

2 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 cooling

Output Overvoltage Protection

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

Efficiency

Typically 80% at full load Dependent on input/output combination

Operating Temperature

-25 to +55°C temperature for full specification Contact factory for extended temperature range

Temperature Drift

0.05% per °C over operating temperature range

Cooling

Conduction to customer heat-sink or chassis and by additional natural convection via the surface of the IP66 enclosure

Environmental Protection

IP66 enclosure Internal module: Ruggedized and conformal coated Potting of the internal module is also available

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5-100% condensing

MTBF

140,000 hours at 45 °C Demonstrated MTBF is significantly higher

Indicators

None

Control Input

None

Alarm Output

Not installed Optional output Fail Alarm

Package/Dimensions (L x W x H)

D3 with baseplate: 406 x 160 x 90 mm (16.1" x 6.3" x 3.5") Without baseplate: 360 x 160 x 90 mm 14.1" x 6.3" x 3.5"

Weight

4.6 kg (10 lb)

Connections

Internal barrier-type terminal block accessible via sealed cable glands. Optional connectors instead of cable glands

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice

The specifications on this data sheet are generic and are subject to change. Enhancements to these specifications can be provided upon request.

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