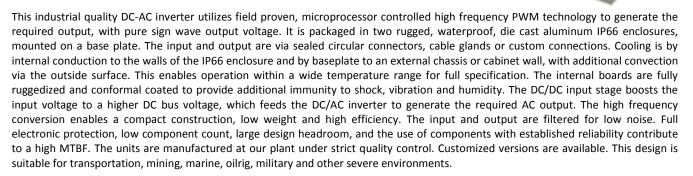
1kVA, IP66-Rated, Rugged, Industrial Quality DC-AC Sine Wave Inverter CSI 1K-125/230-2XD3 (IP66)

- Packaged in two waterproof IP66 enclosures
- Internal modules ruggedized and conformal coated
- Rugged, field-proven design
- Conduction/convection cooling
- Filtered input/output
- Full electronic protection



SPECIFICATIONS

Input Voltage

125Vdc nominal 105-145Vdc operating range Input Current: 12A max 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

1000Vdc input to chassis 2250Vdc input to output 1500Vdc output to chassis Isolated floating output

Standards

Designed to meet UL 458, EN60950-1 and corresponding international standards

EMI

EN 55022 Class A with margins

Output Voltage

230Vac/4.4Arms/50Hz 1000VA 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 5% from 10% load to full load

Load Crest Factor

2 at 90% load

Output Noise

High frequency ripple is less than 800mVrms (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

Operating Temperature

-25 to +50°C temperature for full specification Extended temperature range available on request.

Temperature Drift

0.05% per °C over operating temperature range

Cooling

Conduction to customer heat-sink or chassis and natural convection

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

130,000 hours at 45 °C Demonstrated MTBF is significantly higher

Indicators

None

Control Input

None

Alarm Output

Not installed Optional output Fail Alarm

Dimensions (L x W x H)

Two D3 chassis side by side on baseplate: 406 x 320 x 94mm (16 x 13.44 x 3.7") Baseplate: 16" x 14" Mounting holes are clear

Weight

10kg (22 lbs)

Connections

RoHS Compliance

Fully 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.

OEM of professional quality AC/DC power supplies and battery chargers, DC/DC converters, 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.



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