CSI3K SERIES

DC / AC Sine Wave Inverters: 3000 VA

Description

The CSI3K is a rugged DC/AC inverter uses field proven, microprocessor controlled high frequency PWM technology to generate 3000VA output power with pure sign wave output voltage. It is a mature design with a track record in numerous 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 on board fans.

Features

- Sinusoidal output waveform
- 3000VA output power
- Frequency options 50Hz / 60Hz / 400Hz
- Wide range of input options: 24 ~ 250VDC
- Optional output fail alarm on some models
- Rugged design for harsh environments
- Full electronic protection
- Non standard input voltage options
- Various mechanical solutions

Options

- Alarms: Output Fail Alarm: voltage free relay contacts
- Remote Inhibit: Remote ON / OFF
- Ruggedized: Conformal coating and Ruggedization for use in harsh environments
- Slow Start: Slow start up option for powering fans
- Connector: A variety of terminals / connectors available to suit special customer requirements

General Specifications

- Input Voltage: 24VDC, 36VDC, 48VDC, 120VDC, 250VDC
- Input Range: ±-15% of input, other options on request
- Input Protection: Inrush current limiting
- Isolation: For input > 60vdc: Input – Output: 2250vdc For input <60vdc: Input – Output: 1500vdc
- EMI: EN55011 Class A conducted
- Immunity: EN 61000-4
- Output Voltage: 115VAC / 230VAC options
- Output Waveform: Sinusoidal
- Harmonic Distortion: Less than 5% at 100% load.
- Output Freq.: 50Hz, 60Hz, 400Hz options
- Load Crest Factor: Maximum 2.5% at 90% load
- Output Power: 3000VA
- Regulation: Line / Load: ±6% from 10% to 100% load step.
- Output Noise: High Frequency ripple is better than 500mVrms (20MHz BW)
- Protection: Current limiting with short circuit protection
- Output Voltage Protection: Output voltage is limited by internal supply voltage
- Efficiency: Input voltage /model dependent typically 80% at 100% load
- Operating Temp: 0ºC to +50ºC at rated load. Other options on request
- Cooling: On Board Fans
- Shock & Vibration: Basic ruggedizing
- Humidity: 5-95% non-condensing
- MTBF: >95,000 hrs at 45ºC
- LED Indicator: Optional
- Connector: Input: Terminal block or threaded studs
- Dimensions: Package size varies from 3U x 17” x 16” to a 6U x 19” x 16” modular configuration, depending on input/output combination required.
- Weight: 15-25kg

Model No Example:

CSi3K-4E-xxxx (48VDC / 230VAC 50Hz )

<table>
<thead>
<tr>
<th>CSI</th>
<th>Power</th>
<th>Input Vdc</th>
<th>Output</th>
<th>3U4 / 19in</th>
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<tbody>
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<td>3K</td>
<td>2 = 24V</td>
<td>A = 115V/60Hz</td>
<td>Package</td>
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<td>3 = 36V</td>
<td>E = 230V/50Hz</td>
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<td>6 = 250V</td>
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</table>

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

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