

# CSI3K SERIES

DC / AC Sine Wave Inverters: 3000 VA



3U3.+3U4:..  
3U.(5.2").x.17".x.16".  
chassis.mount.

3.x.3U3:..  
6U.x19"x.16".  
rack.mount.

These photos show two of a range of package options available. Mechanical size depends on input/output configuration. Chassis mount and 19" rack mount versions available on most designs.

## General Specifications

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

## 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

## Description

The **CSI3K** is 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.

## Options ( may not be available on all combinations )

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

## Model No Example:

**CSI3K-4E-xxxx** ( 48VDC / 230VAC 50Hz )

CSI	Power	Input Vdc	Output	3U4 / 19in
CSI	3K	2 = 24V 3 = 36V 4 = 48V 7 = 72V 9 = 96V 108 = 108V 5 = 125V 6 = 250V	A = 115V/60Hz E = 230V/50Hz M = 115V/400Hz	Package

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.