

# CSI2K5 SERIES

DC / AC Sine Wave Inverters: 2500 VA



3U7: ..  
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.

## Features

- ◆ Sinusoidal output waveform
- ◆ 2500VA 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

## 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>	2500VA
<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 block- 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
<b>Weight</b>	15-25kg

## Description

The **CSI2K5** is rugged DC/AC inverter uses field proven, microprocessor controlled high frequency PWM technology to generate 2500VA output power with pure sine 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:

**CSI2K5-4E-xxxx** ( 48VDC / 230VAC 50Hz )

CSI	Power	Input Vdc	Output	3U4 / 19in
CSI	2K5	2 = 24V	A = 115V/60Hz	Package
		3 = 36V	E = 230V/50Hz	
		4 = 48V	M = 115V/400Hz	
		7 = 72V		
		9 = 96V		
		108 = 108V		
		5 = 125V		
		6 = 250V		

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.