

CSI1K-FT SERIES

DC / AC Sine Wave Inverters: 1000 VA



General Specifications

Input Voltage	24VDC, 36VDC, 48VDC, 120VDC, 250VDC <ul style="list-style-type: none"> Other input voltage options on request
Input Range	±15% of input, other options on request
Input Protection	Inrush current limiting Internal safety fuse, Reverse Polarity Protection
Isolation	For input > 60vdc : Input – Output: 2250vdc For input <60vdc: Input – Output: 1500vdc <ul style="list-style-type: none"> Other options on request
EMI	EN55011 Class A conducted
Immunity	EN 61000-4
Output voltage	115VAC / 230VAC options Output neutral connected to chassis internally. Isolated / Floating output option.
Output Waveform	Sinusoidal
Harmonic Distortion	Less than 5% at 100% load.
Output Freq.	50Hz, 60Hz, 400Hz options
Load Crest Factor	Maximum 3% at 90% load
Output Power	1000VA
Regulation	Load: ±2% from 10% to 100% load step. Line: ±1.0% over input range
Output Noise	High Frequency ripple is better than 500mVrms (20MHz BW)
Protection	Current limiting with short circuit protection Self re-setting thermostat for thermal protection
Output Over Voltage Protection	Output voltage is limited by internal supply voltage
Efficiency	Input voltage / model dependent typically 80% at 100% load
Operating Temp	0°C to +50°C at rated load. Other options on request
Cooling	By Conduction on base plate & Convection
Shock & Vibration	Designed to meet IEC61373 Cat 1 A & B
Humidity	5-95% non-condensing
MTBF	>130,000 hrs at 45°C
LED Indicator	Optional
Connector	Terminal block, other options on request
Dimensions	483 x 67 x 355mm (F31)
Weight	7kg

Features

- Sinusoidal output waveform
- 1000VA output power
- Convection cooled – No Fans
- Frequency options 50Hz / 60Hz / 400Hz
- Wide range of input options: 24 ~ 250VDC
- Optional output fail alarm on some models
- Low profile 67mm
- Rugged design for harsh environments
- Full electronic protection
- Non standard input voltage options
- **RSI** series (Rail Spec) -option

Description

The **CSI1K** is rugged DC/AC inverter uses field proven, microprocessor controlled high frequency PWM technology to generate 1000VA 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 baseplate to a heat sinking surface and by natural convection.

Options (may not be available on all combinations)

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

Model No Example:

CSI1K-4E-FT (48VDC / 230VAC 50Hz)

CSI	Power	Input Vdc	Output	FT
CSI	1K	2 = 24V	A = 115V/60Hz	Std 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.