

CSI500 - FX SERIES

DC / AC Sine Wave Inverters: 500 VA



General Specifications

Input Voltage	125VDC (105~145) • Other input voltage options on request
Input Protection	Inrush current limiting Internal safety fuse, Reverse Polarity Protection
Isolation	1700vdc input – chassis 1700vdc input - output
EMI	EN55022 Class A conducted
Immunity	EN 61000-4
Output voltage	230VAC Output neutral is connected to chassis. Link / Jumper can be removed if floating output is required
Output Waveform	Sinusoidal
Harmonic Distortion	Less than 5% at 100% load.
Output Freq.	50Hz, 60Hz, 400Hz options
Load Crest Factor	2 at 90% load
Output Power	500VA
Regulation	Line /Load: $\pm 3\%$ from 10% to 100% load step.
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	80% at 100% load
Operating Temp	0°C to +50°C at rated load. Other options on request
Cooling	Convection / Conduction cooled
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
Control Input	Remote shutdown - option
Connector	12 pole terminal block, other options on request
Dimensions	357 x 153 x 67mm (FX)
Weight	2.2kg

Features

- 125VDC Input
- Sinusoidal output waveform
- 500VA output power
- Convection cooled – No Fans
- Frequency options 50Hz / 60Hz / 400Hz
- Optional output fail alarm on some models
- Low profile 67mm
- Rugged design for harsh environments
- Full electronic protection
- **RSI** series (Rail Spec) -option

Description

The **CSI500FX** is rugged DC/AC inverter uses field proven, microprocessor controlled high frequency PWM technology to generate 500VA 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 heatsinking 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 harsh environments.
Slow Start	Slow start up option for powering fans
Connector	A variety of terminals / connectors available to special customer requirements
Rack Mount	2U x 19in Rack Mount

Model No Example:

CSI500-5E-FX (125VDC / 230VAC 50Hz)

CSI	Power	Input Vdc	Output	FX
CSI	500	5 = 125V	A = 115V/60Hz E = 230V/50Hz M = 115V/400Hz	Std Package

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