

# CSI500-FT SERIES

## DC / AC Sine Wave Inverters: 500 VA



### General Specifications

<b>Input Voltage</b>	24VDC, 36VDC, 48VDC, 125VDC, 250VDC <ul style="list-style-type: none"> <li>Other input voltage options on request</li> </ul>
<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 <ul style="list-style-type: none"> <li>Other options on request</li> </ul>
<b>EMI</b>	EN55011 Class A conducted
<b>Immunity</b>	EN 61000-4
<b>Output voltage</b>	115VAC / 230VAC options Isolated / Floating output Neutral can be connected to earth terminal if required.
<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 3% at 90% load
<b>Output Power</b>	500VA
<b>Regulation</b>	Load: ±2% from 10% to 100% load step. Line: ±1.0% over input range
<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>	Convection / Conduction cooled
<b>Shock &amp; Vibration</b>	Designed to meet IEC61373 Cat 1 A & B
<b>Humidity</b>	5-95% non-condensing
<b>MTBF</b>	>130,000 hrs at 45°C
<b>LED Indicator</b>	Optional
<b>Connector</b>	Terminal block, other options on request
<b>Dimensions</b>	254 x 67 x 361mm ( F21 )
<b>Weight</b>	4.2kg

### Features

- Sinusoidal output waveform
- 500VA 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 **CSI500** 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 )

<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
<b>Rack Mount</b>	2U x 19in Rack Mount

### Model No Example:

**CSI500-4E-FT** ( 48VDC / 230VAC 50Hz )

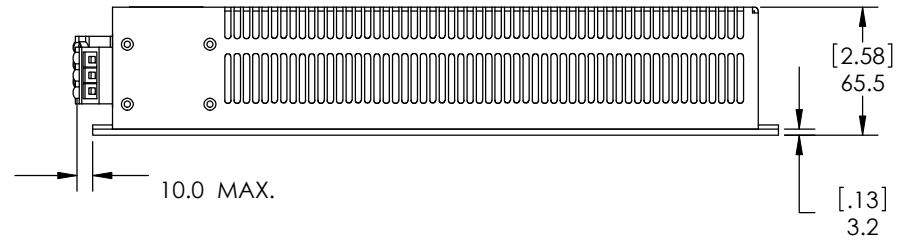
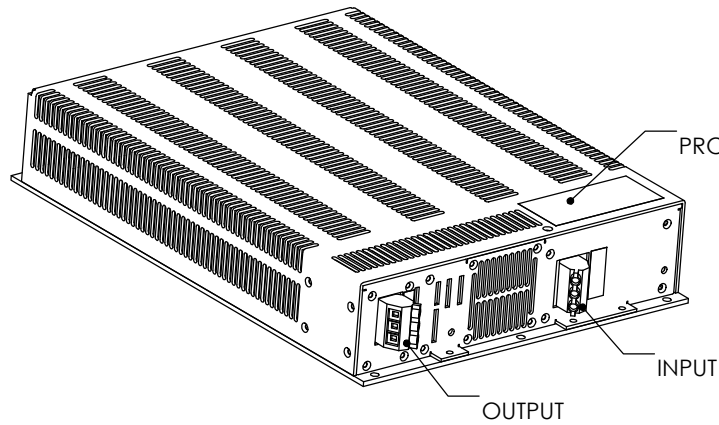
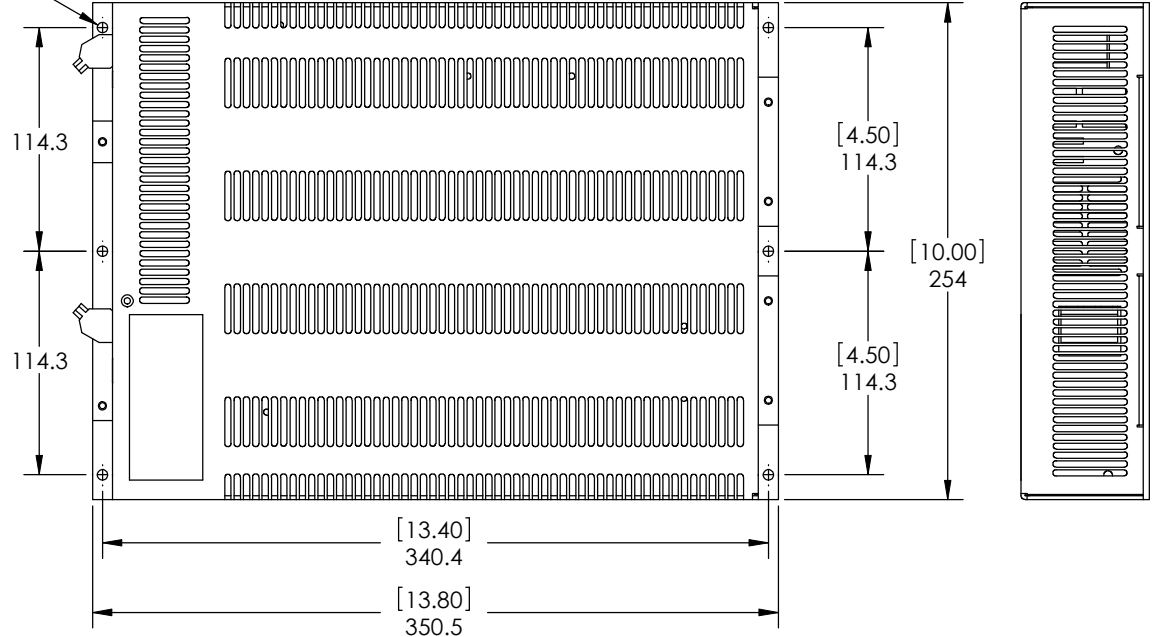
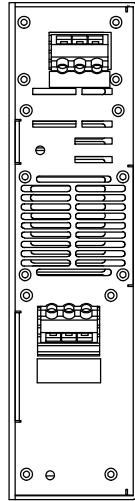
CSI	Power	Input Vdc	Output	FT
CSI	500	2 = 24V	A = 115V/60Hz	Std Package
		3 = 36V		
		4 = 48V	E = 230V/50Hz	
		7 = 72V	M = 115V/400Hz	
		9 = 96V		
		108 = 108V		
		5 = 125V		
		6 = 250V		

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.

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[.21]  
Ø5.3 MOUNTING HOLES 6 PLCS.



CHASSIS MATERIAL: ALUMINIUM 5052-H32

FINISH: CHEMICAL CONVERSION COATED  
AS PER MIL-C-5541E, CLASS 3 (CLEAR)

DIMENSIONS ARE IN MILLIMETERS  
(INCHES) TOLERANCES ON  
DECIMALS: XXX ± 0.2mm  
          XX ± 0.3mm

ANGLES: ± 2°  
FRACTIONS: ± 0.4mm  
UNLESS OTHERWISE STATED

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Title:	OUTLINE DRAWING
Part of:	F21 PACKAGE

