

# CSI150-FT SERIES

DC / AC Sine Wave Inverters: 150 VA



## Features

- Sinusoidal output waveform
- 150VA output power
- Convection cooled – No Fans
- Frequency options 50Hz / 60Hz / 400Hz
- Wide range of input options: 24 ~ 125VDC
- Optional output fail alarm on some models
- Low profile 57mm
- Rugged design for harsh environments
- Full electronic protection
- Non standard input voltage options
- **RSI Series ( Rail Spec ) - Option**

## General Specifications

<b>Input Voltage</b>	24VDC, 36VDC, 48VDC, 125VDC
<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
<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 3% at 90% load
<b>Output Power</b>	150VA
<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>	114 x 58 x 256mm ( F2 )
<b>Weight</b>	1.2kg

## Description

The **CSI150** is rugged DC/AC inverter uses field proven, microprocessor controlled high frequency PWM technology to generate 150VA 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:

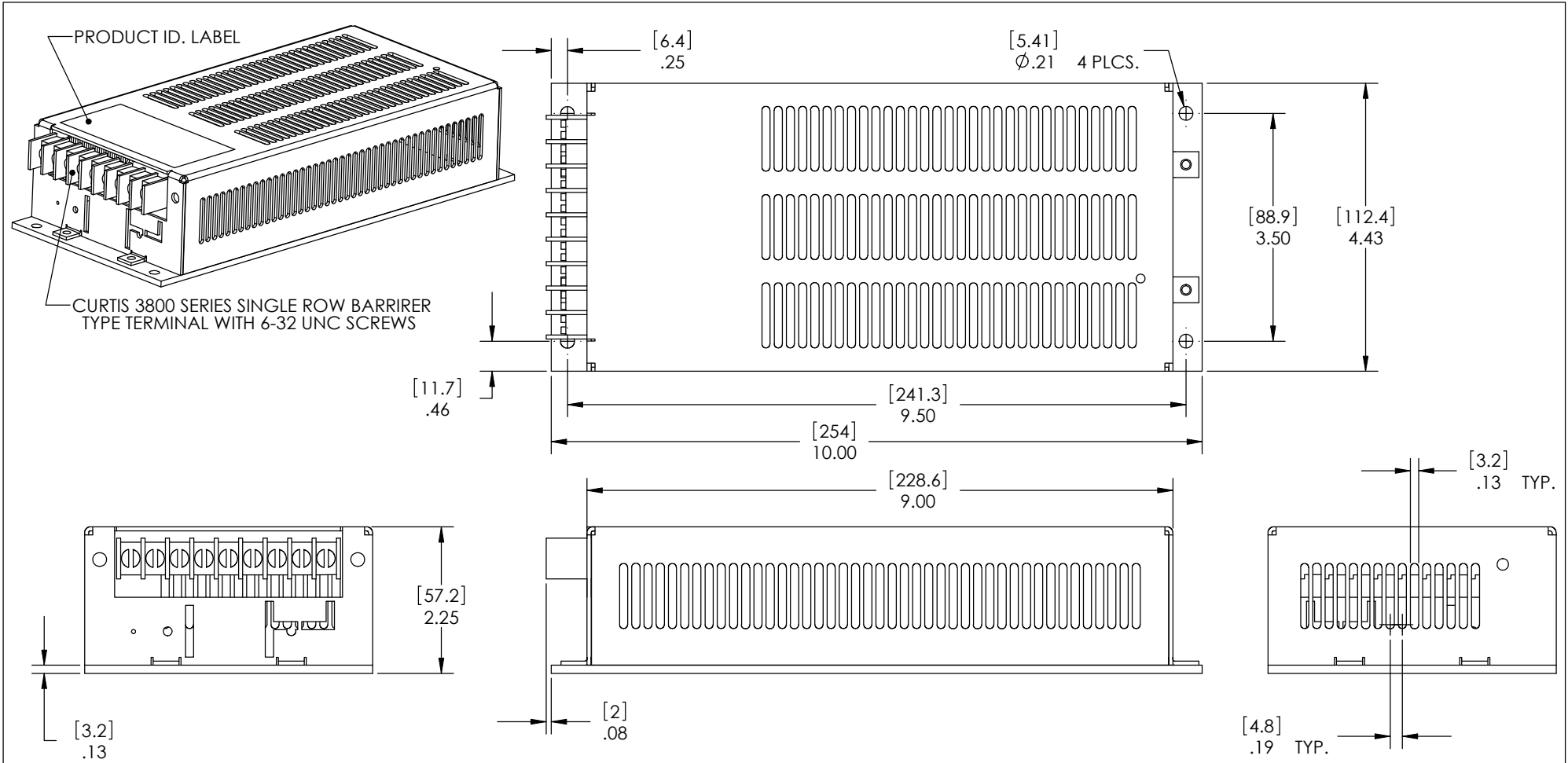
**CSI150-4E-FT** ( 48VDC / 230VAC 50Hz )

CSI	Power	Input Vdc	Output	FT
CSI	150	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		

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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DIMENSIONS ARE IN INCHES  
(mm) TOLERANCES ON  
DECIMALS: XXX ± 0.008"  
          XX ± 0.012"  
ANGLES: ± 2°  
FRACTIONS: ± 1/64"  
UNLESS OTHERWISE STATED

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Title: OUTLINE DRAWING

Part of: F2 PACKAGE

