

CSI100 to CSI1000 Sine Wave Inverters







Selection of low-profile, conduction/convection cooled sine wave inverters CSI 100-XX-FT ...CSI 1000-XX-FT

Generic Specifications

Input Voltages	24Vdc, 36Vdc, 48Vdc, 72Vdc, 120Vdc and 270Vdc Other input options on request
Input Range	-15% to +20% of nominal Other options on request
Efficiency	Model dependent, typically 80%
Input Protection	Thermal fuse, inrush current limiting. Reverse polarity protection
Isolation	<i>For input >60V</i> Input – output : 2250Vdc Output – chassis: 1500Vdc <i>For input <60V</i> Input – output: 1500Vdc Input – chassis: 500Vdc
Safety	Designed to meet EN60950
Output Volts	115V and 230V standard. Other options on request
Output Frequency	50Hz, 60Hz & 400Hz standard. Other options on request
Output Power	100 ... 1000W depending on model
Line Regulation	±0.5% over input range
Load Regulation	±6.0% from 10% to 100% load. Better regulation on request
Protection	Current limiting with short circuit protection Self re-setting thermostat for thermal protection
EMI	EMI EN50122 Class A as a minimum
Load crest factor	Maximum 3 at full load
Harmonic Distortion	Less than 3% at 90% load
Operating temp.	0°C to +50°C. Extended temperature ranges available
Temperature Drift	0.05% per °C over operating temperature range
Output alarm	Optional – available upon request
MTBF	Min.180,000 hours at 45°C
Warranty	Twelve months subject to application within good engineering practice

Features

- Rugged design for harsh environments
- Conduction/convection cooling, no fans
- Highly filtered input/output
- Sinusoidal output waveform
- Full electronic protection
- Field-proven topology
- Railway quality versions for EN50155 are also available

Model	Output V/A	Dimensions	Outline of chassis
CSI 100-XX-FT	100	F1 package: 4.43" x 2" x 7.78"	
CSI 150-XX-FT	150	F2 package: 4.43" x 2.25" x 10"	
CSI 200-XX-FT	200	F3 package: 5.2"x 2.43" x 11.4"	
CSI 300-XX-FT	300	FX package: 6" x 2.63" x 13.82"	
CSI 500-XX-FT	500	F20 package: 10" x 2.58" x 13.8"	
CSI 1000-XX-FT	1000	F30 package: 19"x 2.64" x 13.97"	

Example of complete part number:

CSI 500-4E-FT (48Vdc input; 230Vac/50Hz output)

Enhancements to these general specifications and customizing can be accommodated upon request.
Designed to meet common approval requirements. Specifications subject to change.