Model: CSI 50-6E-F1T-T6398

COSD: XXXX

Summary description: 50VA Industrial Quality Sine Wave Inverter

220Vdc to 230Vac, 50Hz

Customer Name: Thiele KG/Germany (KS)

Customer Part Number: Same as above

Product description:

This rugged DC/AC inverter uses field proven, microprocessor controlled high frequency PWM technology to generate the required 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. The use of components with established reliability results in high MTBF. The unit is manufactured at our plant under strict quality control.

SPECIFICATIONS

Line/Load Regulation

Load Crest Factor

2 at 90% load

Output Noise

protection.

limiting

Efficiency

80% at full load

Temperature Drift

temperature range

Convection/conduction

Cooling

±3% from no load to full load

High frequency ripple is better

than 500mVrms (20MHz BW)

Output Overload Protection

Current limiting with short circuit

Output Overvoltage Protection

270V by internal supply voltage

Operating Temperature Range

0.05% per °C over operating

0°C to +50°C for full specifications

Special Features: 180-250Vdc input, conformal coating. Actual load 40VA max.



220Vdc nominal 180-250Vdc operating range Input current: 0.35A max

Input Protection

Inrush current limiting Reverse polarity protection Varistor

v aristor

Internal safety fuse

Lower voltage than the specified minimum input will not damage the unit

Isolation

2250Vdc input to chassis 2800Vdc input to output 2250Vdc output to chassis

Standards

Designed to meet EN 60950-1 and corresponding standards

EMI

EN55032 Class A with margins

Output Voltage

230Vac / 0.2Arms, 50Hz 50VA continuous Output is floating

Wave Form

Sinusoidal

Total Harmonic Distortion

Less than 5% at full load

230VAC OUTPUT						220VDC INPUT		
NOT USED	L1	L2	NOT USED	NOT USED	NOT USED	÷	+	_
1	2	3	4	5	6	7	8	9

Terminal Block Pin-Out

Environmental Protection

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Basic ruggedizing Conformal coating

Shock / Vibration IEC 61373 Cat 1 A&B

Humidity

5 – 95% non-condensing

MTBF

140,000 hours at 45°C

Indicators

None

Control Input

None

Alarm Output

None

Package Dimensions (W x H x L)

F1: 112 x 51 x 201mm (4.4" x 2" x 7.9") The mounting holes are clear

Weight

0.8kg (1.8 lb)

Connections

9-pole barrier type terminal block with 3/8" spacing. Snap-on cover included

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice

Originated by TS/kv	Date Dec 9, 2019
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Approved by TS	ABSOPULSE ELECTRONICS LTD.

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