COSD: XXXX

**Summary description:** 750VA, Industrial Quality Sine Wave Inverter

220Vdc to 230Vac/50Hz

**Customer Name:** Thiele KG/Germany (KS)

**Customer Part Number: Same as above** 

Model: CSI 750F-6E-F6WTA-T3717

## **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 concept with a track record in numerous applications. The DC/DC input stage boosts the input voltage to a higher DC bus 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 by built-in high quality fans and also via baseplate to a heatsinking surface. The use of components with established reliability results in high MTBF. The unit is manufactured at our plant under strict quality control.

Special Features: Conformal coating. Output fail alarm



Input Voltage 220Vdc nominal 187-253Vdc operating range

Input Current: 4.3A max

**Input Protection** 

Inrush current limiting Varistor

Reverse polarity protection

Internal safety fuse

Lower voltage than the specified minimum will not damage the unit

**Isolation** 

1500Vdc input to chassis 3000Vdc input to output 2250Vdc output to chassis

Output neutral is internally connected to

chassis

Standards

Designed to meet C22.2 No. 107.1 - 01. UL 458 and EN 60950-1

EN 55022 Class A with margins

**Output Voltage** 

230Vac/3.2Arms continuous, 50Hz Output neutral is internally connected to chassis

**Output Wave Form** 

Sinusoidal

**Terminal Block Pin-out** 

230VAC OUTPUT GND L2 NOT NOT NOT NOT USED USED ÷ F/O сом

**Total Harmonic Distortion** Less than 5% at full load

Line/Load Regulation

±5% from no load to full load

**Load Crest Factor** 

2 at 90% load

**Output Protection** 

Current limiting with short circuit protection

Thermal shutdown with automatic recovery in case of insufficient cooling

Efficiency

84% at full load

**Operating Temperature Range** 

0°C to +50°C for full specification

**Temperature Drift** 

0.05% per °C over operating temperature range

Cooling

By built-in high quality fans and also conduction via base plate to customer

heatsink or chassis

**Environmental Protection** 

Basic ruggedizing Conformal coating

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5 - 95% non-condensing

Indicators

Green OUTPUT ON LED installed visible

through the cooling slots

**Control Input** 

None

**Alarm Output** 

Output Fail alarm Form C contacts

Package/Dimensions (WxHxL)

254 x 65 x 359mm (10" x 2.6" x 13.75")

Mounting holes are clear

Weight

Approx. 4kg (9 lbs)

Connections

Input: 6-pole terminal block, 3/8" spacing

Output: 12-pole terminal block,

3/8" spacing

**RoHS Compliance** 

Compliant

Warranty

Two years subject to application within good engineering practice Contamination related failures and shipping cost excluded



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