

Model: CSH 750-5E-F6WT-T4317

COSD: XXXX

Summary Description: 750VA Industrial Quality Sine Wave Inverter
560Vdc to 230Vac/50Hz

Customer Name: Thiele KG/Germany (KS)

Customer Part Number: Same as above



Product description:

This rugged, DC/AC inverter system uses field proven, microprocessor controlled high frequency PWM technology to generate the required output power with pure sine wave output voltage. The inverter is built with internal power modules. A CDC 500 module converts the input voltage to an internal DC voltage, which feeds the MSI 2300 output module. The built-in fans provide sufficient airflow for operation without de-rating to the specified temperature. The 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. The use of components with established reliability results in high MTBF. The unit is manufactured at our plant under strict quality control.

Special Features: 476-644Vdc input range. Conformal coating.

SPECIFICATIONS

Input Voltage

560Vdc nominal
476-644Vdc operating range (required)
Input current: 1.9A max

Input Protection

Inrush current limiting
Varistors
Reverse polarity protection
Internal safety fuse
Lower voltage than the specified minimum will not damage the unit

Isolation

1700Vdc input to chassis & output
Output neutral is connected to the chassis internally

Standards

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

EMI

EN55032 Class A with margins

Output Voltage

230Vac/50Hz, 3.2Arms
750VA continuous
Output neutral is connected to the chassis internally

Output Wave Form

Sinusoidal

Total Harmonic Distortion

Less than 5% at full load

Line/Load Regulation

±5% from 10% load to full load.

Load Crest Factor

2 at 90% load

Output Noise

High frequency ripple is less than 500mVrms (20MHz BW)

Output Overload Protection

Current limiting with short circuit protection.
Thermal shutdown with automatic recovery in case of continuous overload or insufficient airflow

Output Overvoltage Protection

By internal supply voltage limiting at 270Vac

Efficiency

83% at full load

Operating Temperature Range

0°C to +50°C for full specifications

Temperature Drift

0.05% per °C over operating temperature range

Cooling

By built-in high quality fans

Environmental Protection

Basic ruggedizing
Conformal coating

Shock/Vibration

IEC61373 Cat 1 A&B

Humidity

5 – 95% non-condensing

MTBF

120,000 hours at 45°C
(Fans excluded)

Indicators

Green OUTPUT ON LED installed visible through the cooling slots

Control Input

None

Alarm Output

Not installed

Package/Dimensions (WxHxL)

F6W: 254 x 65 x 356mm
(10" x 2.6" x 14")
Mounting holes are clear.

Weight

3.4kg (7.5 lbs)

Connections


Input: Terminal block
Output: Terminal block

RoHS Compliance

Compliant

Warranty

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

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