

Model: CSI 1K-6E-3U2-T3617

COSD: XXXX

Summary Description: 1000VA Industrial Quality, Sinewave Inverter
216Vdc 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 two internal power modules. A CDC 1200 module converts the input voltage to an internal DC voltage, which feeds the MSI 2300 output module. The built-in fan provides 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 have extra stage of filters for very low noise level. The use of components with established reliability results in high MTBF. The unit is manufactured at our plant under strict quality control.

Special Features: 216Vdc input (172-260Vdc), Conformal coating.

SPECIFICATIONS

Input Voltage

216Vdc nominal
172-260Vdc operating range (requested)
Input Current: 6.2A max.

Input Protection

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

Isolation

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

Standards

Designed to meet EN 60950-1 and corresponding standards

EMI

EN 55032 Class A with margins

Output Voltage

230Vac/4.3Arms continuous, 50Hz
Output neutral is internally connected to chassis

Output Wave Form

Sinusoidal

Total Harmonic Distortion

Less than 5% at full load

Line / Load Regulation

±6% combined from zero load to full load

Load Crest Factor

2 at 90% load

Output Noise

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 output

Efficiency

85% at full load

Operating Temperature Range

0°C to +50°C

Temperature Drift

0.05% per °C over operating temperature range

Cooling

By built-in high quality fan

Environmental Protection

Basic ruggedizing
Conformal coating

Shock / Vibration

IEC 61373 Cat 1 A&B

Humidity

5 – 95% non-condensing

MTBF

120,000 hours @ 45°C
(Fan not included)

Indicators

None

Control Input

None

Alarm Output

Not installed

Package/Dimensions (W x H x L)

3U2: 132 x 132 x 407mm
(5.2" x 5.2" x 16")
Mounting brackets included

Weight

5.2kg (11.5 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