

Model: CSI 200-2EF3TA-T3633
COSD: XXXX
Summary Description: 200VA Industrial Quality Sine Wave Inverter
 24Vdc 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.

Special Features: Conformal coating, Output fail alarm

SPECIFICATIONS

Input Voltage

24Vdc nominal
 21-29Vdc operating range
 Input current: 12A 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

1000Vdc input to chassis
 2250Vdc input to output
 1500Vdc output to chassis

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/0.87Arms/50Hz
 Output is floating

Wave Form

Sinusoidal

Total Harmonic Distortion

Less than 5% at full load

Line/Load Regulation

± 2% from no load to full load

Load Crest Factor

2 at 90% load

Output Noise

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

Output 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
 280Vac

Efficiency

80% at full load

Operating Temperature Range

0°C to +50°C

Temperature Drift

0.05% per °C over operating temperature range

Cooling

Conduction/convection cooled

Environmental Protection

Basic ruggedizing
 Conformal coating

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5 – 95% non-condensing

MTBF

130,000 hours at 45°C

Indicators

Green OUTPUT ON LED visible through the cooling slots

Control Input

None

Alarm Output

Output Fail alarm
 Form C contacts

Package/Dimensions (W x H x L)

F3: 132 x 62 x 290 mm
 (5.2" x 2.5" x 11.4")
 Mounting holes are clear

Weight

1.2 kg (2.6 lb)

Connections

12-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

Terminal Block Pin-out

230VAC OUTPUT					ALARM			24VDC INPUT			
NOT USED	L1	L2	NOT USED	GND	F/O	COM	F/C	-	-	+	+
1	2	3	4	5	6	7	8	9	10	11	12