

DC/AC Wandler

CSI50-IEF1T

Technische Daten



Abbildung ähnlich



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Model: CSI 50-1EF1T-U5449

COSD: XXXX

Summary description: 50VA Industrial Quality Sine Wave Inverter
12Vdc to 230Vac, 50Hz

Customer Name: Thiele KG/Germany

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. The DC/DC input stage boosts input voltage to a higher DC voltage, which feeds the DC/AC inverter to generate the required AC output. High frequency conversion enables compact construction, low weight and high efficiency. The unit has full electronic protection. 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 a high MTBF. The unit is manufactured at our plant under strict quality control.

Special Features: Conformal coating

SPECIFICATIONS

Input Voltage

12Vdc nominal
10.5-15Vdc operating range
Input current: 6.5A max.

Input Protection

Reverse polarity by crowbar diode
Internal safety fuse
Lower voltage than the specified minimum input will not damage the unit

Isolation

500Vdc input to chassis
2250Vdc input to output
2250Vdc output to chassis

Standards

Designed to meet EN 62368-1 and corresponding standards

EMI

EN55032 Class A with margins

Output Voltage

230Vac / 0.21Arms, 50Hz
50VA continuous
Output is floating

Wave Form

Sinusoidal

Total Harmonic Distortion

Less than 5% at full load

Line/Load Regulation

± 3% from no load to full load

Load Crest Factor

2 at 70% load

Output Noise

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

Output Overload Protection

Current limiting with short circuit protection. Thermal shutdown with automatic recovery in case of insufficient cooling

Output Overvoltage Protection

270V by internal supply voltage limiting

Efficiency

78% at full load

Operating Temperature Range

0°C to +50°C baseplate temperature for full specifications

Temperature Drift

0.05% per °C over operating temperature range

Cooling

By conduction via baseplate and natural air convection

Environmental Protection

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

Green OUTPUT ON LED visible through the cooling slots

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")

Mounting holes are clear

Weight

0.8kg (1.8 lb)

Connections

9-pole barrier type terminal block with 3/8" spacing

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice

Terminal Block Pin-out

AC OUTPUT			DC INPUT					
NOT USED	L1	L2	NOT USED	NOT USED	NOT USED	GND	+	-
1	2	3	4	5	6	7	8	9



USV-Anlagen

Minimieren Sie Ausfallrisiken mit zuverlässigen USV-Systemen.

#VERSORGTBESSER

Stromversorgungen

Versorgen Sie Ihre Verbaucher mit der exakt passenden Spannung.

#WECHSELTBESSER

Netzersatzanlagen

Ihre sichere Stromversorgung bei Blackout mit Notstromsystemen.

#ERSETZTBESSER

Energiespeicherung

Schalten und trennen Sie Ihre Lasten stabil und sicher.

#SPEICHERTBESSER

Schaltung & Schutz

Schalten und trennen Sie Ihre Lasten stabil und sicher.

#SCHALTETBESSER

Prüftechnik

Simulieren, analysieren und prüfen Sie mit verlässlichen Komponenten.

#TESTETBESSER

Service & Support

Darauf können Sie sich immer zu 100% verlassen: THIELE KG

#HANDELTBESSER

Custom Design

Bringen Sie Ihr Projekt weiter voran - mit maßgeschneiderten Lösungen.

#PASSTBESSER



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