

Model: CSI 750-2E-3U3-U3181
COSD: XXXX
Summary Description: 750VA Industrial Quality Sine Wave Inverter
 24Vdc to 230Vac/50Hz
Customer Name: Thiele KG/Germany
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. Two CDC1000 modules 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: 18-30Vdc input range. Conformal coating

SPECIFICATIONS

Input Voltage

24Vdc nominal
 18-30Vdc operating range
 Input current 50A 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

1500Vdc 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 62368-1

EMI

EN55032 Class A with margins

Output Voltage

230Vac/50Hz/3.2Arms 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

80% 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 fan

Environmental Protection

Basic ruggedizing
 Conformal coating

Shock/Vibration

IEC61373 Cat 1 A&B

Humidity

5 – 95% non-condensing

MTBF

130,000 hours at 45°C
 (Fan excluded)

Indicators

Green OUTPUT ON LED installed visible through the cooling slots

Control Input

None

Alarm Output

Not installed

Package/Dimensions (WxHxL)

3U3: 187 x 132 x 407mm
 (7.4" x 5.2" x 16")

Mounting holes are clear

Weight

6kg (13lbs)

Connections


Input: Threaded stud M6
 Output: Terminal block

RoHS compliance

Compliant

Warranty

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

Originated by TS/kv	Date Dec 15, 2021
Updated by TS	Drawing No./ Rev. SCD U3181A
Approved by TS	

This document is the property of Absopulse Electronics Ltd. Its contents are proprietary and may neither be copied, reproduced, nor its contents disclosed to others without prior written agreement from Absopulse Electronics Ltd.