Model: FTS 550R-3P480/A-F7WT-U1546

COSD: XXXX

Summary description: 550VA Railway Quality Sine Wave Inverter System

480Vac, 3-phase to 115Vac/60Hz

Thiele KG/Germany **Customer Name: Customer Part Number: Same as above** 

## **Product description:**

This rugged, industrial quality sine wave inverter utilizes field-proven FCA500 technology to generate the required output power. Cooling is by high quality built-in fans with which draw air into the unit, and by conduction via the baseplate. All heat generating components are installed on aluminum heatsink blocks which are thermally connected to the base plate. This also provides exceptional mechanical ruggedness. Conformal coating provides protection against humidity and airborne contaminants. Full electronic protection, low component count, large design headrooms and the exclusive use of components with established reliability contribute to a high MTBF. The unit is manufactured at our plant under strict quality control.

Special Features: Conformal coating. Fan cooling



480Vac, 3-phase, 47-63Hz 410-550 Vac operating range

Input current: 2.8 Arms max per phase

## **Input Protection**

Inrush current limiting Varistors Internal safety fuses Lower voltage than specified minimum input will not damage unit

700Vdc input to chassis 4300Vdc input to output Output neutral is connected to the chassis

## Standards

Designed to meet C22.2 No. 107.1 – 01. UL 458, UL 508, EN 60950-1,EN50155

## **Immunity**

Thiele KG • Vorderer Weinberg 26 • D-71522 Backnang • Tel.: +49 (0)7191 3560-0 • Fax.: +49 (0)7191 3560-19 • info @thiele-kg.de • www.thiele-kg.de

Meets criteria as requested in EN50155 and EN50121-3-2

according to the following standards:

EN 61000-4-2 (ESD)

EN 61000-4-3 (RF Immunity)

EN 61000-4-4 (Fast Transients)

EN 50155 (Surge)

EN 61000-4-6 (Conducted Immunity) EN 50155 (Voltage Variations)

# **EMI**

EN50121-3-2

## **Output Voltage**

115Vac/4.7Arms continuous, 60Hz Output neutral is internally connected to chassis

## **SPECIFICATIONS**

#### Wave Form

Sinusoidal

# **Total Harmonic Distortion**

Less than 5% at full load

## Line/Load Regulation

±6% 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 Overload Protection**

Current limiting with short circuit

Thermal shutdown with automatic recovery in case of insufficient cooling

## **Output Overvoltage Protection**

140V by internal supply voltage limiting

## **Efficiency**

80% at full load

# **Operating Temperature Range**

-25 °C to +55 °C.

# **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

IEC 61373 Cat 1 A&B

# Humidity

5 – 95% non-condensing

110,000 hours at 45°C (Fans excluded)

### Indicators

None

# **Control Input**

None

# Alarm Output

None

# Package/Dimensions (WxHxL)

F7W: 280 x 66 x 361mm (11" x 2.6" x 14.2") Mounting holes are clear

## Weight

Approx. 4.5kg (10 lbs)

# Connections

Input: 6-pole terminal block, 3/8" spacing Output: 12-pole terminal block, 3/8" spacing

# **RoHS Compliance**

Compliant

# Warrantv

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

Drawn by TS/Ip	Date Feb 28, 2022
Checked by TS	Drawing No./ Rev. SCD U1546A
Approved by TS	ÄBSOPULSE ELECTRONICS LTD.

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

