Model: CSI 10-24W/70E-F1T-T5855

COSD: XXXX

Summary Description: 10VA, Industrial Quality Sine Wave Inverter

24Vdc to 70Vac/50Hz

Customer Name: Thiele KG/Germany (KS)

Customer Part No.: Same as above

Product Description:

This rugged DCAC 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 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. Input and output are filtered for low noise. Cooling is 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: 18-30Vdc input range. 70Vac output voltage. 10VA output power. Conformal coating

SPECIFICATIONS

Input Voltage 24Vdc nominal

18-30Vdc operating range (requested) Input current: 0.8A max

Input Protection

Inrush current limiting Varistor Reverse polarity protection

Internal safety fuse Lower voltage than the specified minimum input will not damage the unit

Isolation

500Vdc input to chassis 1500Vdc input to output 1000Vdc output to chassis

Standards

Designed to meet EN 60950-1 and corresponding standards

EN55032 Class A with margins

Output Voltage

70Vac, 0.14Arms, 50Hz 10VA 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 90% load

Output Noise

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

Output Overload Protection

Current limiting with short circuit protection

Output Overvoltage Protection

90Vac by internal supply voltage limiting

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

By natural air convection and conduction via baseplate

Environmental Protection

Basic ruggedizing Conformal coating

Shock / Vibration

IEC 61373 Cat 1 A&B

Humidity

5 - 95% non-condensing

140,000 hours at 45°C

Indicators

None

Control Input

None

Alarm Output

None

Package / Dimensions (W x H x L)

112 x 51 x 201mm (4.4" x 2" x 7.9")

Mounting holes are clear

Weight

0.7kg (1.5 lb)

Connections

9-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

_ 70\	_ 70VA OUTPUT_						DC INPUT		
NOT USED	L ₁	L ₂	NOT USED	NOT USED	NOT USED	άνρ	+	_	
1	2	3	4	5	6	7	8	9	

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.

Origin	ated by	Date Oct 1, 2019
Updat TS	ed by	Drawing No./ Rev. SCD T5855A
Appro TS	ved by	ABSOPULSE ELECTRONICS LTD.



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