

DC/AC Wandler

CTP5K-300-A3P-3U7-19A-U5247A

Technische Daten



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Model: CTP 5K-300/A3P-3U7/19A-U5247

COSD: XXXX

Summary Description: 5000VA Industrial Quality Sine Wave Inverter
300Vdc to 230Vac (L-L), 50Hz, 3-Phase

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. Three CDC 500 modules convert the input voltage to an internal DC voltage, which feeds the three MSI 2300 output modules. 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: Conformal coating, 19" rackmount, Alarm

SPECIFICATIONS

Input Voltage

300Vdc nominal
270-330Vdc operating range
Input current: 22A max

Input Protection

Inrush current limiting
Reverse polarity protection
Internal safety fuse
Lower voltage than the specified minimum input will not damage the unit.

Isolation

2250Vdc 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

EN55022 Class A with margins

Output Voltage

3-phase 230Vac (L-L), 50Hz
12.6Arms per phase continuous
All neutrals are internally connected to chassis in "Y" configuration

Output 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 better than 500mVrms (20MHz BW)

Output Overload Protection

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

Output Overvoltage Protection

440Vac by internal supply voltage limiting

Efficiency

80% at full load

Operating Temperature Range

0 C to +50 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

MTBF

85,000 hours at 45 C
(Fans excluded)

Indicators

Green OUTPUT ON LED on each DC/DC internal module visible through the cooling slots

Control Input

None

Alarm Output

Output Fail Alarm
Form C contacts

Package Dimensions (WxHxL)

3U7: 132 x 483 x 407mm
(5.2" x 19" x 16")
Chassis mount

Weight

Approx. 11kg (24 lbs)

Connections

Input: Terminal block
Output: Terminal block

RoHS Compliance

Compliant

Warranty

Twelve months subject to application within good engineering practice
Contamination related failures and shipping cost excluded



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.

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Energiespeicherung

Schalten und trennen Sie Ihre Lasten stabil und sicher.

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Schaltung & Schutz

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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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