

Model: CTP 6K-680W/E3P-4X3U3-U1579
COSD: 40U0-1 (40U0-2; 40U0-2A; 40U0-2B; 40U0-3; 40U0-3A)
Summary description: 6kVA Sine Wave Inverter System
 680Vdc to 400 Vac (L-L), 3-phase/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 four modules each in 3U3 enclosure. These modules have internal power cards; three FIB 2000 modules, and 6 KHH 2000 which feeds the three MSI 2300 output modules. Built-in fans provide sufficient airflow for operation without de-rating to the specified temperature. 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. 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, CE Mark, CE DoC, CofC

SPECIFICATIONS

Input Voltage
 680Vdc nominal
 476-884Vdc operating range
 Input current 15A max

Input Protection
 Inrush current limiting
 Varistors
 Reverse polarity protection
 Internal safety fuse
 Lower voltage than specified minimum input will not damage unit

Isolation
 3000Vdc input to chassis
 2250Vdc output to chassis
 Output neutral is connected to the chassis internally

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

EMI
 EN55032 Class A with margins

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 protection.
 Thermal shutdown with automatic recovery in case of insufficient cooling

Output Overvoltage Protection
 440V by internal supply voltage limiting

Efficiency
 88% at full load

Operating Temperature Range
 0°C to +50°C

Temperature Drift
 0.05% per °C over operating temperature range

Humidity
 5 – 95% non-condensing

MTBF
 95,000 hours at 45°C

Indicators
 Green OUTPUT ON LED on each internal power card visible through the cooling slots

Control Input
 None

Alarm Output
 Not installed

Package Dimensions (WxHxL)
 Four 3U3 cases, each with sizes:
 187 x 132 x 407mm
 (7.4" x 5.2" x 16")
 Chassis mount

Weight
 Total approximately 28kg (61lbs)

Output Voltage
 400Vac, 3-phase(L-L)
 8.6 Arms per phase, 50Hz
 Output neutral is internally connected to chassis

Wave Form
 Sinusoidal

Total Harmonic Distortion
 Less than 5% at full load

Cooling
 By built-in high-quality fans

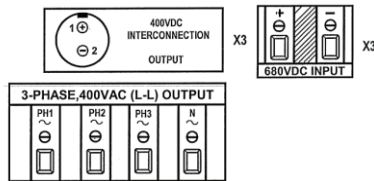
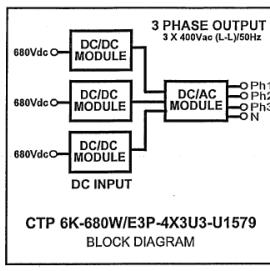
Environmental Protection
 Basic ruggedizing
 Conformal coating


Shock/Vibration
 IEC 61373 Cat 1 A&B

Connections
 Input: 2 pole terminal block Phoenix HV assembly on each input model
 Output: 4 pole terminal block Phoenix FRONT type
 Interconnections: Cable with connector.

RoHS Compliance
 Compliant

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



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