Model:CTP5K-750/3P480-3U7-S5037COSD:8N13-1 (8N13-2, 8N13-3, 8N13-4)Summary Description:5000VA Industrial Quality, Sine Wave Inverter
750Vdc to 480Vac (L-L), 3-Phase, 60HzCustomer Name:GE Energy Storage/USACustomer Part Number:Same as above



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; an FIB 2000 and three KHH 2000 modules convert the input voltage to an internal DC bus 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: 750Vdc input, 3-phase output with neutral, conformal coating, ruggedizing.

SPECIFICATIONS

Input Voltage 750Vdc nominal 550-850Vdc operating range Input current: 11.5A max

Input Protection

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

Isolation

3000Vdc input to chassis/output Output neutral is connected to the chassis, internally

Standards

Designed to meet C22.2 No. 107.1 – 01. UL 458, EN60950-1

EMI EN55022 Class A with margins

Output Voltage

3-phase 480Vrms (L-L), 60Hz 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 10% load to full load

Load Crest Factor Maximum 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 520Vac 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 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 None

Control Input None

Alarm Output Not installed

Package Dimensions (WxHxL) 3U7: 432 x 132 x 407mm (17" x 5.2" x 16") Chassis mount version

Weight 13.6kg (30lbs)

Connections

Input: 2-pole Phoenix connector 4V-7.62 Output: 5-pole terminal block with 1/2" spacing

RoHS Compliance Full compliance

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

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