Source Control Document.

Model: **CTP 9K-750/3P480-3X3U4/3U7/19-S5344**
COSD: **9N52-1 (9N52-2, 9N52-3, 9N52-4, 9N52-5, 9N52-6)**
Summary description: **9kVA Industrial Quality 3-Phase Inverter 750Vdc to 480V (L-L), 3-phase, 60Hz**
Customer Name: **GE Energy Storage/GEMx Technologies/USA**
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. It is constructed with three 3U4 modules and a 3U7 module. The three 3U4 modules convert the input voltage to an internal DC voltage, which feeds the 3U7 AC output module. Each interconnection between modules is made with a single pair of wires. All modules are built with internal power cards. The complete system has three FID 2000 cards, nine KHH2000 cards, and six MSI 2300 output cards. 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: 480V (L-L) output, Conformal coating, 19" rack mount,

SPECIFICATIONS

Input Voltage
750Vdc nominal
600-850Vdc operating range
Input Current: 19A max total
(6.25A per input module)

Input Protection
Inrush current limiting
Varistor
Internal safety fuses
Lower voltage than the specified minimum input will not damage unit the unit

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

Standards
Designed to meet
C22.2 No. 107.1 – 01,
UL 458 and EN 60950-1, EN50155 and corresponding standards

EMI
EN55022 Class A

Output Voltage
480V, 3-phase (L-L) / 6.2Arms per phase continuous, 60Hz. The output is floating. The centre point (output neutrals) is connected to chassis internally

Output Wave Form
Sinusoidal

Total Harmonic Distortion
Less than 5% at full load

Line / Load Regulation
±6% combined from 10% to full 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
By internal supply voltage limiting at 520Vac (L-L) on each output phase

Efficiency
Typically 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

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
70,000 hours at 45°C
(Fans not included)

Indicators
None

Control Input
None

Alarm Output
Not installed

Dimensions
9U x 19" x 16" (H x W x D) total size, including one 3U7 size module case and three 3U4 size module cases
19" rackmount version

Weight
Approx. 39kg (86 lbs)

Connections
Inputs: Terminal block on each module
Output: Terminal block
Interconnections: Terminal block

RoHS Compliance
Not required but accepted

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

Originated by	Date
NH/st	October 8, 2015
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Approved by	ABSOPULSE ELECTRONICS LTD.
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