Model: CSH2K-460E-3U4-U9578
COSD: XXXX
Summary Description: 2000VA, Industrial Quality Sine Wave Inverter 460Vdc to 230Vac/50Hz



Product Description:

This rugged, DC/AC sinewave inverter uses field proven, microprocessor controlled high frequency PWM technology to generate the required output power with pure sine wave output voltage. The unit is built with internal power modules. One FIB 2000 and two KHH2000 modules convert the input voltage to an internal DC bus voltage, which feeds an MSI 2300 AC 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.

SPECIFICATIONS

Input Voltage
460Vdc nominal
450-470Vdc operating range
Input Current: 5.3A max

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

Isolation
3400Vdc input to chassis
2250Vdc output to chassis

Standards
Designed to meet EN 62368-1

EMI
EN 55032 Class A with margins

Output Voltage
230Vac/8.7Arms continuous, 50Hz
Output is floating

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 Protection
Current limiting with short circuit protection
Thermal shutdown with automatic recovery in case of insufficient cooling

Efficiency
85% at full load

Operating Temperature Range
0º C to +50ºC for full specification

Temperature Drift
0.05% per ºC 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
95,0000 hours@ 45°C (Fans excluded)
Demonstrated MTBF is significantly higher

Indicators
Green OUTPUT ON LED on each internal DC/DC module visible through the rear perforation

Control Input
None

Alarm Output
None

Package / Dimensions (W x H x L)
3U4: 244 x 132 x 432mm
(9.6" x 5.2" x 17")
Chassis mount

Weight
10kg (22 lbs)

Connections
Input: Terminal block Phoenix FRONT
Output: Terminal block Phoenix FRONT

RoHS Compliance
Not required, but accepted

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

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