CTP3K SERIES

DC / AC 3 Phase Sine Wave Inverters: 3000 VA





6U x 19" chassis (4 x 3U3)

General Specifications

Input Voltage 24VDC, 36VDC, 48VDC, 120VDC, 250VDC

Other input voltage options on request

Input Range ±-15% of input, other options on request

Input Protection Inrush current limiting

Internal safety fuse, Reverse Polarity Protection

Isolation For input > 60vdc : Input – Output: 2250vdc

For input <60vdc: Input – Output: 1500vdc

Other options on request

EMI EN55011 Class A conducted

Immunity EN 61000-4 **Output voltage** See table:

All neutrals are internally connected to chassis

(GND) in "Y" configuration.

(Phase-to-neutral voltages can also be used:

115Vrms, 220Vrms or 240Vrms)

Output Waveform Sinusoidal

Harmonic Distortion

Less than 5% at 100% load.

Output Freq. 50Hz, 60Hz, 400Hz options
Load Crest Factor Maximum 2.5% at 90% load

Output Power 3000VA

Regulation Line / Load: ±6% from 10% to 100% load step.

±2% option.

Output Noise High Frequency ripple is better than

500mVrms (20MHz BW)

Protection Current limiting with s hort circuit protection

Self re-setting thermostat for thermal

protection

Output Over

Efficiency

Dimensions

Output voltage is limited by internal supply

Voltage Protection voltage

Input voltage / model dependent typically

80% at 100% load

Operating Temp 0°C to +50°C at rated load.

Other options on request

CoolingOn Board FansShock & VibrationBasic ruggedizingHumidity5-95% non-condensingMTBF>95,000 hrs at 45℃

LED Indicator Optional

Connector Input: Terminal block or threaded

studs depending on input voltage

Output: Terminal block

Interconnections: Terminal blocks

Size varies from 3U \times 19" to 6U \times 19" depending on input/output combination

Weight 15-30kg (model dependent)

Features

- ♦ 3 phase output
- Sinusoidal output waveform
- ♦ 3000VA output power
- Frequency options 50Hz / 60Hz / 400Hz
- ♦ Wide range of input options: 24 ~ 250VDC
- Optional output fail alarm on some models
- Rugged design for harsh environments
- Full electronic protection
- Non standard input voltage options

Description

The **CTP 3K** Series is a rugged modular DC/AC inverter system that uses a microprocessor controlled, field-prov en technology to deliver 3-Phase, 3000VA continuous output power.

It is a mature design with a track record in numerous applications. The standard 3-phase outputs are 208Vrms, 380Vrms or 400Vrms (L-L).

Phase-to-neutral voltages can also be used: 115Vrms, 220Vrms or 240Vrms. All output neutrals are internally connected to chassis (GND) in "Y" configuration. The number of modules depends on the input/output combination.

The unit in the photograph is a typica I example of one configuration. Input modules convert the input volt age to an internal DC voltage, which feeds the DC/AC output module.

The high frequency conversion enables a compact construction, low weight and high efficiency. The unit has fullelectronic protection. The input and output are filtered for low noise. The use of components with established reliability results in high MTBF. Cooling is by built-in fans, which draw air into the unit.

Options (may not be available on all combinations)

Alarms Output Fail Alarm: voltage free relay contacts

Remote Inhibit Remote ON / OFF

Ruggedized Conformal coating and Ruggedization for use

in harsh environments.

Slow Start Slow start up option for powering fans

Connector A variety of terminals / connectors available to

suit special customer requirements

Model No Example:

CTP3K-4E-xxxx (48VDC/230VAC/415VAC 50Hz

СТР	Power	Input Vdc	Output	Factory Allocated
СТР	3К	2 = 24V 3 = 36V 4 = 48V 7 = 72V 9 = 96V 108 = 108V 5 = 125V 6 = 250V	A = 115V / 208V 60H E = 230V / 415V 50H M = 115V / 208V 400	Hz

- 1. Standard input / Output combinations are illustrated.
- 2. Non standard combinations are available on request
- Final Part no will be allocated at time of order to reflect customer specifications and options.

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