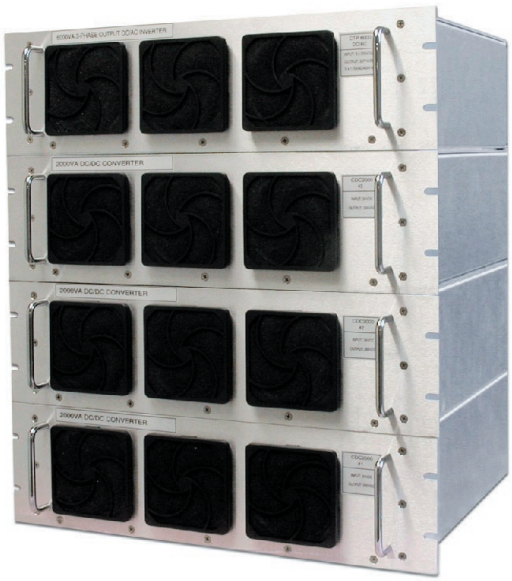
RCTP6000R Series 3-Phase Inverter



Benefits

- Quiet operation
- Power sensitive electronics without interference
- Rugged & Reliable
- Ensure years of safe and trouble free operation

Applications

- Marine / Automotive / RV
- Electric Utilities and Substations
- Telecom Power Plants
- Manufacturing Locations
- Steel Mills
- Military Applications (COTS)
- Industrial Controls
- OEM Applications
- Solar / Alternative Power Systems
- Fuel Cells

Sinewave Inverter

RCTP6000R Series

Description

The RCTP6000 Series Inverter provides 3-phase, sine-wave voltage from 24V, 48V, 125V or 250VDC inputs. The standard unit delivers 3-phase outputs of 208rms, 380Vrms or 415Vrms (PH-PH) continuous at 50, 60, or 400Hz.
The floating outputs are isolated from each other and can be connected in a 'Y' configuration or left as three individual outputs. In 'Y' configuration, the centre point (neutral) can be grounded.
Suitable for a wide range of applications, the RCTP6000 Series features full electronic protection, high efficiency and low output noise.
The built-in fan provides sufficient airflow for operation without de-rating up to 50°C ambient temperature.

Extended operating temperature (-40°C) is available.

Features

- Input is filtered to EN 55022 Class B
- Sinusoidal wave shape
- Isolated, floating output
- 6000VA of output power
- Full electronic protection
- High reliability
- Telecom quality
- Field-proven design topology

Specifications *(Specifications Subject to Change Without Notice)*

Electrical (Input)

Input Voltage VDC	24V, 48V, 125V, 250VDC standard. Consult factory for other inputs
Input Protection	Thermal fuse, Inrush current limiting

Electrical (Output)

Output	208Vrms/ 3-phase continuous or 380Vrms/3-phase continuous or 415Vrms/3-phase continuous at 50, 60, or 400Hz The centre point (neutral) is floating - it can be grounded. Consult factory for other voltages and frequencies
Output Protection	Current limiting with short circuit protection. Thermal shutdown with automatic recovery in case of insufficient airflow
Wave Form	Sinusoidal

Indications & Electrical

Total Harmonic Distortion	Less than 5% at full load
Efficiency	Min 78% at full load
Line Regulation	Maximum 0.5%
Load Regulation	Maximum ± 6% from 10% load to full load
Load Crest Factor	Maximum 3.0 at 90% load
Frequency Stability	± 0.1%
Operating Temperature Range	0° - 50°C, Derating Linearly 2.5% per °C from 50°C Extended range available (Consult factory)
Humidity	5 - 95% non-condensing
Temperature Drift (for output voltage level)	0.05% per °C over operating temperature range
EMI	EN 55022 Class B for versions where input current <70A. Class B filtering is an option where input current >70A.

Mechanical Specifications

Depth	38.1 cm
Width	19“
Height	12U
Weight	90 lb / 40 kg
Connections	Input/output: terminal block
Warranty	2 years
Safety	Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950

Available from:

RIPEnergy®
The power conversion company

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