

Transduction

DC/AC Input Mode with 0 mSec AC Transfer Switch

TR-1000VA-T-125VDC

TR-1000VA-T-125VDC Highly Reliable Industrial Inverter



Highly reliable inverter that provides either 120VAC / 60Hz or 220VAC / 50Hz output power from 100VDC or 125VDC battery source.

It can operate in DC input mode or AC input mode with 0 mSec AC transfer switch if the AC power is too low or disappears. LCD display panel provides for convenient setup and display of many parameters.

This is truly industrial inverter with many protection features provides reliable power for telecom and power utility clients. Its operation and performance are implemented by intelligent microprocessor controller. Furthermore, design has been optimized for the lowest EMI/RFI so that the inverter does not interfere with low level transmission of wireless equipment..

Soft start function and automatic recovery from low battery voltage makes it suitable for remote unattended operation in the field. Alarm condition activates by relay contacts or can be transmitted elsewhere via optional RS232/485 or Ethernet IP ports.

TR-1000VA-T-125VDC is readily available from stock. Warranty is 3 years.

Transduction

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TR-1000VA-T-125VDC

Specification

Model

- TR-1000VA-T-125VDC provides 120VAC or 220VAC output power from 110VDC or 125VDC, 50Hz or 60Hz

Rated Power

- 1000VA / 800W

AC Input

- Input System - single phase and ground
- Voltage Range of Bypass - 80VAC - 285VAC, 50 or 60Hz

DC Input

- Nominal Voltage - 125VDC
- Max. Current - 8.6A
- Voltage Range - 90 - 130V
- Input Low Voltage/Protection - 90V
- Input High Voltage/Protection - 130V

AC Output

- Output System - single phase and ground
- Output Voltage - 220VAC $\pm 3\%$ (inverter output)
- Output Frequency - 50Hz $\pm 1\%$
- Dynamic Voltage Transient Range - $< 5\%$
- Dynamic Transient Restore - $< 60\text{mS}$
- Waveform - Sine wave THD $< 3\%$ (linear load), sine wave THD $< 8\%$ (non-linear load)
- Output Power Factor - 0.8
- Input Current Peak Coefficient - 3:1
- Transfer Time - 0mS

Panel Indicator System

- LED screen + LCD indicator - show status of inverter and operation parameters

Optional Communication Port

- RS232/RS485 or Ethernet IP

Alarms

- AC/DC input under and over voltage, overload conditions and inverter problems

Protection

- AC input or output above or below the voltage range
- Overload, over temperature and short circuit protection

Isolation Resistance

- $> 2\text{M}\Omega$ (500VDC)

Electrical Isolation

- 2121VDC (AC input, output to ground, DC input to AC output, without flashover in one minute)

Cooling System

- Air cooling, temperature controlled push-pull fans

Operating Temperature

- $-10 \sim 50^\circ\text{C}$ ($14 \sim 122^\circ\text{F}$)

Storage Temperature

- $-40 \sim 65^\circ\text{C}$ ($-40 \sim 149^\circ\text{F}$)

Humidity

- Relative humidity 0 ~ 95%, non-condensing

Compliance: EMI/RFI meets specifications of FCC Class B, CE and Electrical Safety to CSA model code SPE-1000

Warranty: 3 years

Dimensions

- 3.267" (H) x 14.960" (D) x 17.244" (W) (83mm (H) x 380mm (D) x 438mm (W))

Weight

- 8.5kg (18.74lbs)

Ordering

- TR-1000VA-T-125VDC/120VAC-50Hz
- TR-1000VA-T-125VDC/120VAC-60Hz
- TR-1000VA-T-125VDC/220VAC-50Hz
- TR-1000VA-T-125VDC/220VAC-60Hz