

Voltage converter 48V / 230V AC, 10 kVA / 8000 W, 19" 4U, RS485

Reference: AM4938
EAN13: -
HS code: 85044090



Product attributes:

Product features:

Input voltage: 48 V DC
Output voltage: 230 V AC
Output power: 8000 W
Frequency: 50 Hz
Waterproof grade: IP20

Product description:

The voltage converter is used to convert 48 V DC to 220-240 V AC. The 19" 4U rack version is intended for installation in switchboards, technology cabinets, and backup or energy systems where a centralized power converter with an RS485 communication interface is required.

Technical specifications

- Model: IPS-DTA10000-482-4U
- Device type: DC/AC voltage converter
- Input voltage: 48V DC
- Operating input voltage range: 40-58.8 VDC
- Starting voltage range: 42-57 VDC
- AC bypass input: 230 VAC
- Output voltage: 230 VAC
- Output frequency: 50 Hz
- Output voltage shape: pure sine wave
- Rated power: 10 kVA
- Active power: 8000 W
- Design: 19" rack
- Height: 4U
- Communication interface: RS485
- Bypass switching time: up to 5 ms
- Insulation strength between input and output: 1500 VAC for 1 minute
- Noise level at a distance of 1 m: up to 65 dB
- Operating temperature: -20°C to +50°C
- Operating humidity: 0-90%, non-condensing
- Maximum operating altitude: 2000 m
- Efficiency in inverter mode at 80% resistive load: at least 85%
- Protection functions: input undervoltage and overvoltage protection, output overload and short circuit protection
- Overload capacity: 100-120% for 60 s
- Overload capacity: 121-150% for 10 s

Functions and features

- Converts 48V DC voltage to AC mains voltage to power connected devices.
- The 19" rack design allows installation in standardized cabinets and distribution boards.
- The output with a pure sine wave is designed to power devices sensitive to the quality of the supply voltage.
- The integrated RS485 interface allows connection to a higher-level monitoring or control system.
- By-pass with a short switching time supports operation in applications where power continuity is important.
- The design is intended for power applications with a 48 V DC power bus.

Ideal for

- Backup power systems with 48 V battery blocks.
- Telecommunications and data installations in 19" rack.
- Industrial and technological switchboards.
- Power systems requiring conversion from 48 V DC to 220-240 V AC.
- Central power supply for devices in rack assemblies.

Package contents

- 48 V DC / 220-240 V AC voltage converter in 19" 4U design

Why choose this product?

- It combines 10 kVA / 8000 W power with a 19" rack design.
- Supports communication via RS485 for integration into technical systems.
- The stated pure sine wave output is suitable for a wide range of AC loads.
- The listed protection functions address overvoltage, undervoltage, overload and short circuit.
- Operating parameters include an industrially applicable range of temperatures and humidity without condensation.

Installation and operating instructions

- Installation must be carried out in a 19" rack or other structure with adequate load capacity and ensured heat dissipation.
- It is necessary to observe the correct polarity and dimensioning of the 48 V DC supply.
- The AC connection must comply with local electrical regulations.
- Connect the RS485 communication interface only with compatible devices and suitably routed cabling.
- Operate the device in an environment free from moisture condensation and within the prescribed temperature range.

Safety notice

- The device operates with dangerous input and output voltages. There is a risk of electric shock, short circuit and damage to connected devices.
- Installation, connection and commissioning must be carried out by a person with appropriate electrical qualifications.
- Before any intervention, disconnect the DC and AC power supply and verify that there is no voltage.
- Incorrect polarity connection on the DC input or incorrect connection of the AC output may result in damage to the device.
- Do not cover the ventilation holes and do not install the device in an area without sufficient cooling.
- Do not operate the device in an environment with condensing humidity, water or conductive dust.

