

# Voltage converter 110V DC / 230V AC, 12 kVA / 9600 W, 19" 4U, RS485

Reference: AM6064  
EAN13: -  
HS code: 85044090



## Product attributes:

## Product features:

Input voltage: 110 V DC  
Output voltage: 230 V AC  
Output power: 9600 W  
Frequency: 50 Hz  
Waterproof grade: IP20

## Product description:

Industrial voltage converter designed for converting DC input voltage to 230 VAC AC output. The device is designed in a 19" 4U rack format and is suitable for applications where DC power is available and a pure sine AC output is required to power devices sensitive to voltage quality. The product is equipped with an RS485 communication interface, LCD indication and protective functions for operation in technical and industrial installations.

## Technical specifications

- Device type: DC/AC voltage converter
- Model series: IPS-DTA12000-1102-4U
- Rated input: 110 VDC
- Operating input voltage range: 90-145 VDC
- Starting voltage range: 94-142 VDC
- AC bypass input: 230 VAC
- Output voltage: 230 VAC
- Output frequency: 50 Hz
- Output voltage shape: pure sine wave
- Rated power: 12 kVA
- Rated active power: 9600 W
- Mounting: 19" rack, height 4U
- Communication interface: RS485
- Indication: LCD display
- Bypass switching time: 55 ms
- Output voltage accuracy: 220 V  $\pm$ 10 VAC
- Output frequency accuracy: 50 Hz  $\pm$ 0.1% or 60 Hz  $\pm$ 0.1%
- Power factor: 0.8
- Efficiency in inverter mode with resistive load: 85%
- Total harmonic distortion: less than 3% at linear load
- Dynamic response time: 5% for a step change in load from 100% to 100%
- Overload capacity: 100% to 120% for 601 s, 120% to 150% for 10 s
- Dielectric strength input-output: 1500 VAC for 1 minute
- Noise level at 1 m: less than 65 dB
- Operating ambient temperature: -20 °C to +50 °C
- Operating humidity: 0-90%, non-condensing
- Operating altitude: up to 2000 m
- Mechanical dimensions: 482 x 177 x 440 mm

## Functions and features

- Converts DC voltage to AC output with a pure sine wave
- Rack design for integration into 19" distribution cabinets and technical racks
- Built-in AC bypass input 230 VAC
- LCD display to display input and output voltage, frequency, output current, temperature, load percentage and other operating data
- RS485 communication interface for supervision or integration into a higher-level system
- Input undervoltage protection
- Input surge protection
- Output overload protection
- Short circuit protection
- Designed to power devices requiring stable AC voltage from a DC source

## Ideal for

- Industrial power systems with 110 V DC bus
- Technological cabinets and 19" rack installations
- Backup and transfer power systems
- Powering devices requiring pure sine wave
- Laboratory, test and technical operations requiring conversion of 110 VDC to 220 VAC

## Package contents

- Voltage converter in 19" 4U rack design

## Why choose this product?

- Combines 110 VDC input with 220 VAC output in one industrial device
- Provides a pure sine wave output suitable for a wide range of AC appliances and technologies
- Allows mounting in a standard 19" rack
- Includes RS485 for communication and LCD for local control of operating status
- It is equipped with protections important for operation in energy and industrial applications

## Installation and operating instructions

- Install in a compatible 19" rack or technical cabinet with sufficient cooling.
- Observe the correct input and output connections according to the terminal designations and voltage levels of the device.
- Operate the device only within the specified input voltage range and in appropriate climatic conditions.
- The connection of the RS485 communication line and power wires must be carried out professionally and with due regard to the power load of the device.
- Before commissioning, verify proper grounding and fuse protection of the entire assembly.

## Safety notice

- The device operates with dangerous DC and AC voltage. There is a risk of electric shock.
- Installation, connection and commissioning must be carried out by a qualified person with appropriate electrical expertise.
- Incorrect connection may cause damage to the device, short circuit, overheating or fire.
- Before any intervention, disconnect the device from the input and output power and verify that it is de-energized.
- Do not cover the ventilation openings and do not operate the device outside the specified temperature range.
- Do not install the device in an environment with moisture condensation, conductive dust, or without adequate protection against overload and short circuit.

