

SolarTech Power Solutions

300w12v to 220 inverter



Overview

This 300W pure sine wave DC to AC inverter converts 12V/24V DC power to 220V AC power, suitable for lead-acid or lithium battery systems, ideal for off-grid applications, with CE certification and 1-year warranty. What is a 300W 12V inverter?

A 300W inverter for 12V is a device that converts 12-volt DC power to 110-220 volt AC power. It is commonly used to power home appliances like refrigerators, rice cookers, and air conditioners. This inverter comes with multi-protections against low voltage, high voltage, over load, overheating, short circuit, and reverse connection.

What is a 12V to 110V inverter?

A 12V to 110V inverter is a device that converts 12-volt DC power to 110-volt AC power. It comes with a USB port and a built-in cooling fan to protect your device from damage. These inverters are commonly used to power home appliances like refrigerators, rice cookers, and air conditioners.

How does a 12V to 220V inverter work?

This 12V to 220V inverter works by using a 555 timer configured to 50Hz in astable multivibrator mode to generate square waves. These waves are then carried to the transformer, which steps up the voltage levels. The gain of the inverter depends upon the properties of the transformer, and the transformer's current rating must be greater than 2A.

What does the 300w inverter protect against?

300w inverter 12v has multi-protections against low voltage, high voltage, over load, overheating, short circuit, and reverse connection. The 12V power inverter output frequency with remote control is $50\text{Hz} \pm 0.5\text{Hz}$ or $60\text{Hz} \pm 0.5\text{Hz}$. Affordable power inverter price, easy to use and install.

How much power does an inverter consume?

In general, the efficiency of inverters is more than 80%-90%. This means that if the input power is 300W, the output power will be around 240W-270W. Therefore, the inverter consumes nearly 30W-60W of power.

How to select a power inverter?

When choosing a power inverter, consider the following: Adopt good conductive material, high-frequency correction wave output power up to 90%, and more stable output. Also, ensure it has a good impact capacity, up to the effect of an industrial frequency machine, and can be used for vehicle power supply, cell phone charging, and outdoor electricity.

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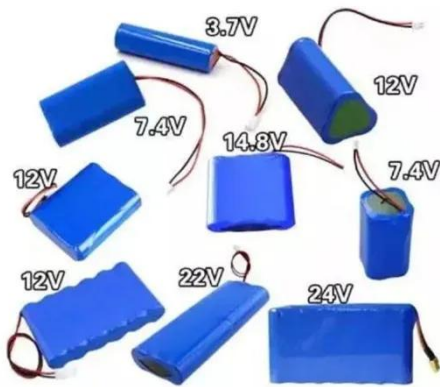
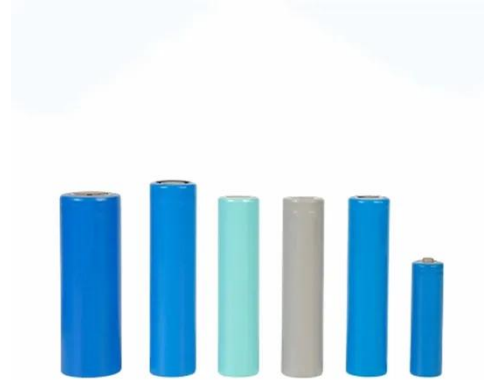
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