

## SolarInnovate Energy Solutions

# The inverter outputs high voltage



## Overview

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What is the output voltage of a solar inverter kit?

The kit has a nominal input of 400 V DC and its output is 600W, which can be fed to the grid. The following information is discussed in this document: All trademarks are the property of their respective owners. The inverter has been widely used in many fields, such as the motor control, the UPS, and the solar inverter systems.

What is a current type inverter for a solar system?

For example, the inverter in the UPS system is a typical voltage type inverter. The other type is the current type, which outputs the AC current in a specified power factor. The motor control inverter and the solar inverter are the current type inverters. This document mainly discusses the current type inverter for the solar system.

How a solar inverter works?

For the current type inverter, the output current is controlled. Besides, in most of the solar inverter systems, there is a DC-DC part in front of the DC-AC part, which is used to boost up the panel voltage and execute the MPPT. The DC-DC will not control the DC bus voltage but controls the input panel voltage and works in the power output mode.

What are the different types of inverter systems?

There are two different types among inverter systems. The first type is the voltage output type that outputs the AC voltage as a voltage source. For example, the inverter in the UPS system is a typical voltage type inverter. The other type is the current type, which outputs the AC current in a specified power factor.

What is an inverter used for?

The inverter has been widely used in many fields, such as the motor control,

the UPS, and the solar inverter systems. The main function of the inverter is to convert the DC power to AC power by using the power electronics like the IGBT, and MOSFET. Traditionally, many inverter systems will be implemented by the analog components.

What is a DC inverter & how does it work?

The main function of the inverter is to convert the DC power to AC power by using the power electronics like the IGBT, and MOSFET. Traditionally, many inverter systems will be implemented by the analog components. As the development of the digital processors, more and more low-cost and high-performance microcontrollers have gotten into the market.

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