

ContainerPower Energy Solutions

String inverter high power 10kw



Overview

What is a 10kW single-phase inverter based on a GaN device?

A 10kW single-phase reference design based on GaN devices Figure 3 is a schematic representation of the converter. DC/DC Boost with MPPT1 Input range: 50-500V ISC: 18A Max. DC current: 14A Figure 3. Single-phase string inverter reference design block diagram Two boost converters for two independent string inputs, each 5kW rated (134kHz).

What is a 7-10kw string inverter?

7-10kW Single-phase series string inverter bring more power generation to users by adopting three MPPT design. Smaller size , lighter weight, the simpler installation , more convenient transportation. The optional AFCI device can avoid reducing the fire incidence by 99%, and protect your electricity safety to a greater extent.

What is a string inverter?

String inverters consist of power switches such as insulated gate bipolar transistors (IGBTs). This kind of power device has issues such as tail current and diode reverse recovery, which lead to high switching losses. Furthermore, these phenomena are affected by temperature, leading to higher power losses, especially for static-cooled solutions.

How efficient is a string inverter?

With an overall system efficiency close to 98% and a power density of 2.3kW/L, the string inverter reference design demonstrates great performance. In addition, the implementation of an integrated gate-driver solution could lead to cost reductions when considering the total system cost.

Why should you choose a string inverter?

All three figures include the two power-conversion stages. GaN helps achieve greater power density, thus reducing the weight of the final end equipment.

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What is a three-phase string inverter?

The Sunway Series Three-phase string inverters are designed for residential and small commercial PV system applications, rating from 3kW to 25kW.

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