

The DC input voltage of the inverter is high





Overview

Why does a string inverter have a 230V output?

The reason for this starts from the principle of the power inverter. For the DC-DC-BOOST circuit of the string inverter, the DC voltage needs to be boosted and stabilized to a certain value (this is called the DC bus voltage) before it can be converted to AC power. As to the 230V output, its DC bus voltage should be about 360V.

What if my inverter voltage is too high?

If your inverters are operating in a different AC grid input mode your inverters shouldn't disconnect above 132V, but allow the higher voltage to pass through to your loads, up to whatever AC limit you've set. See this thread for more info: [Re: Input Voltage is Too High. what to do?](#)

more info.

What is the difference between maximum DC input voltage and start-up voltage?

The maximum DC input voltage is a little higher than the MPPT operating maximum voltage. The start-up voltage is higher than the MPPT operating minimum voltage. This is because the maximum DC input voltage and the start-up voltage are two parameters corresponding to the open-circuit state of the component.

Can a DC inverter overvoltage be measured?

One thing to keep in mind with the overvoltage fault is that it only happens instantaneously at a certain time. Therefore you can only monitor the DC bus voltage stored on the inverter at the time of failure, it is not possible to measure the overvoltage at this time.

What causes an inverter to overvoltage?



Input overvoltage of the inverter is usually caused by a problem with the substation that increases the voltage at the inverter power supply. Or it could also be due to a problem with the power supply of the capacitor. Once you have verified that the input voltage is normal, refer to the second cause below.

Why is my inverter NOT working?

The most common cause is because the input voltage source is too high. Then measure the input voltage or check the DC bus parameter at fault (you can check this parameter in the monitor parameter set of the inverter).



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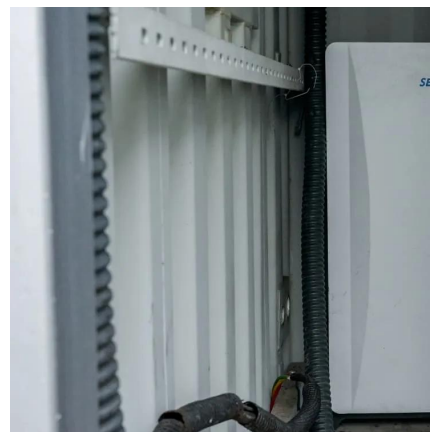


[Inverter Voltage Calculator, Formula, Inverter Voltage Calculation](#)

Inverter Voltage Formula: Inverter voltage (VI) is an essential concept in electrical engineering, particularly in the design and operation of power electronics systems. It describes the output ...

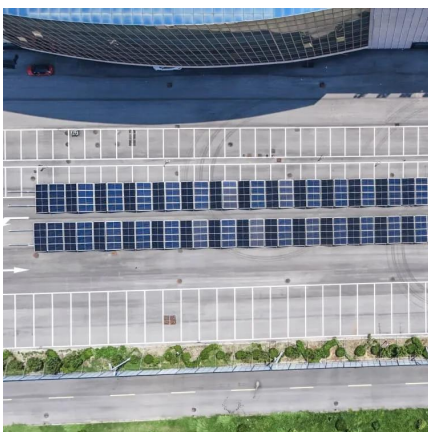
[On sunny days, Inverter switches off when DC voltage gets too high](#)

At other times of the day, when the battery reaches 100%, the DC voltage is not as high and the inverter does not switch off. Amps do not rise above 10.3A on each string, at ...



[Inverter reports overvoltage error - Causes and instructions](#)

So what causes high voltage on DC bus? The most common cause is because the input voltage source is too high. Then measure the input voltage or check the DC bus parameter at fault ...



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