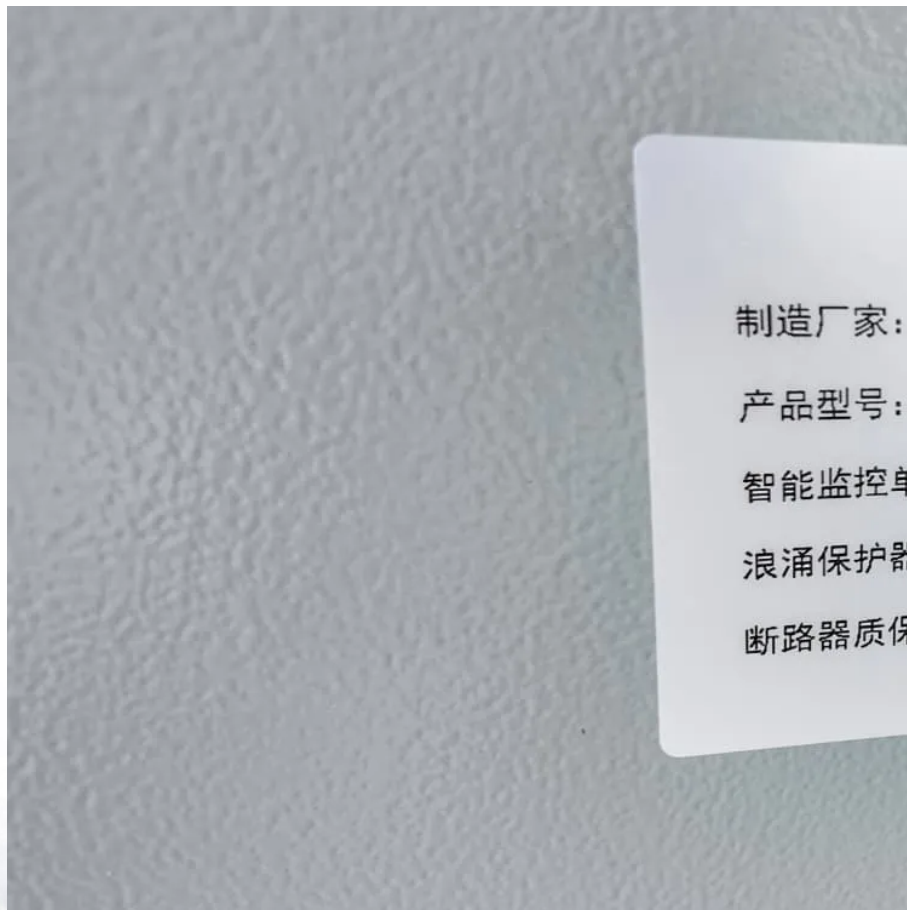


The voltage difference between photovoltaic inverters is too large





Overview

Do photovoltaic inverters generate voltage?

In principle, photovoltaic power generation inverters themselves do not generate voltage. The voltage displayed by the on grid inverters comes partly from photovoltaic components called DC voltage, and partly from the grid called AC voltage. What we are discussing today is how to deal with the problem of on grid inverter showing overvoltage.

What happens when there are AC overvoltages in on grid inverters?

When there are AC overvoltages in on grid inverters, there are three situations: 01. The grid is too far away resulting in voltage rise. The distance between on grid inverter and on grid station is too far, which will lead to the increase of voltage difference at the AC terminal side of the inverters.

What happens if a grid connected inverter is too far away?

If the grid-connected inverter is too far away from the grid connection point, the voltage difference on the AC terminal side of the inverter will increase. When the inverter is connected to the grid-connected voltage range, the inverter will display the grid overvoltage.

What are the requirements for photovoltaic power generation on grid inverter?

According to relevant regulations, photovoltaic power generation on grid inverter must work within the specified grid voltage range, which can be monitored in real time and synchronized with the grid voltage.

Why does a single phase inverter have a high voltage?

It is often the case that multiple single-phase inverters are connected to the same phase, which can easily lead to grid voltage imbalance, and the grid voltage rises, which naturally causes the grid-connected voltage to be too high.



What happens if multiple inverters are connected to the same phase?

The usual situation is that multiple single-phase inverters are connected to the same phase, which can easily lead to unbalanced grid voltage, and grid voltage rise. There is no doubt that it will lead to on grid overvoltage. This situation is relatively easy to solve.



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I. INTRODUCTION Utility scale photovoltaic (PV) systems are connected to the network at medium or high voltage levels. To step up the output voltage of the inverter to such levels, a ...

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