

Inverter full load voltage range





Overview

What is a full-load voltage range?

The full-load voltage range is that the inverter can output the rated power within this voltage range. It means that, in addition to the PV module, there are some other applications of the inverter. The inverter has a maximum input current, such as 40A for 40kW. Only when the input voltage exceeds 550V, the output is likely to reach 40kW.

What are inverter specifications?

Specifications provide the values of operating parameters for a given inverter. Common specifications are discussed below. Some or all of the specifications usually appear on the inverter data sheet. Maximum AC output power This is the maximum power the inverter can supply to a load on a steady basis at a specified output voltage.

How much power does an inverter need?

It's important to note what this means: In order for an inverter to put out the rated amount of power, it will need to have a power input that exceeds the output. For example, an inverter with a rated output power of 5,000 W and a peak efficiency of 95% requires an input power of 5,263 W to operate at full power.

What is the maximum input voltage for a 40kW inverter?

The inverter has a maximum input current, such as 40A for 40kW. Only when the input voltage exceeds 550V, the output is likely to reach 40kW. When the input voltage exceeds 800V, the heat generated by the loss increases sharply, causing the inverter to derate the output.



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