

The DC high voltage before the inverter is lower than the AC





Overview

Why do solar inverters have high DC/AC ratio?

Inverters with high DC/AC Ratio Huawei inverters are only using the level of DC power which the inverters are able to convert and to feed into the grid. As soon as there is more DC power available from the solar modules the inverter is limiting the DC power with raising the DC voltage. For this reason the DC current is lower which is relieving the DC part of the inverter.

How does a DC inverter work?

Converts DC to AC power by switching the DC input voltage (or current) in a pre-determined sequence so as to generate AC voltage (or current) output. Output of the inverter is "chopped AC voltage with zero DC component". It contains harmonics.

Why does a DC inverter have a positive effect?

Power with raising the DC voltage. For this reason the DC current is lower which is relieving the DC part of the inverter. For the AC side there is also a positive effect because of less load cycling and more power.

Which type of inverter is used in HVDC transmission?

For example, in high-voltage direct current (HVDC) transmission, a DC current travels a long distance before being converted back into AC. This means a DC current is supplied via a large reactor. Since the DC side must be treated as a current source, a current source type inverter is used for HVDC applications.



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[DC-AC Inverter Circuit](#)

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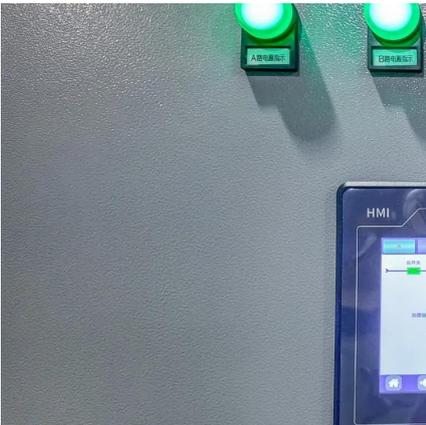
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