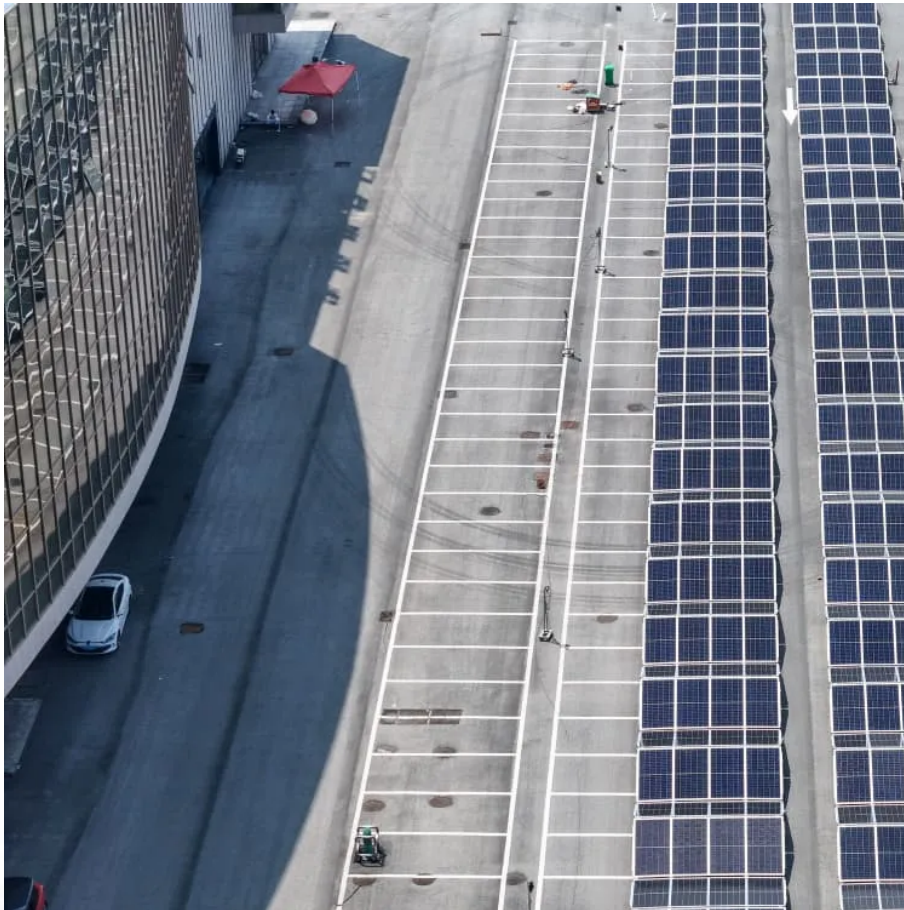


Inverter DC measurement first high then low





Overview

How do inverters measure efficiency?

These deviations have a proportional effect on the derived measurements. The efficiency specified for the inverter is determined using a high-precision measuring process and represents the ratio of the output power to the input power during nominal conditions. These specifications are also verified by independent testing institutes.

What is the tolerance of an inverter?

The inverter's measuring channels may have a tolerance of up to $\pm 4 \%$ for DC measurements and up to $\pm 3 \%$ for AC measurements (based on the respective final value of the measurement range under nominal conditions). As a result, the relative deviation may (also) be correspondingly larger if the feed-in power is low.

Do inverter's measuring devices meet the high standards of calibrated measurement equipment?

The inverter's measuring devices do not meet the high standards of calibrated measurement equipment. The inverter's measuring channels may have a tolerance of up to $\pm 4 \%$ for DC measurements and up to $\pm 3 \%$ for AC measurements (based on the respective final value of the measurement range under nominal conditions).

How do photovoltaic system operators verify the performance of their inverters?

To verify the performance of their inverters, photovoltaic system operators compare the efficiency specified in the data sheet with an efficiency they themselves have calculated. This efficiency comprises measurement data and other specifications that the inverter displays or provides. However, this procedure has proven to be unsuitable.



Inverter DC measurement first high then low



Photovoltaic inverter measurement standards

To verify the performance of their inverters, photovoltaic system operators compare the efficiency specified in the data sheet with an efficiency they themselves have calculated. This efficiency ...

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Mar 31, 2010 · EEC 118 Lecture #4: CMOS Inverters Rajeevan Amirtharajah University of California, Davis Jeff Parkhurst Intel Corporation

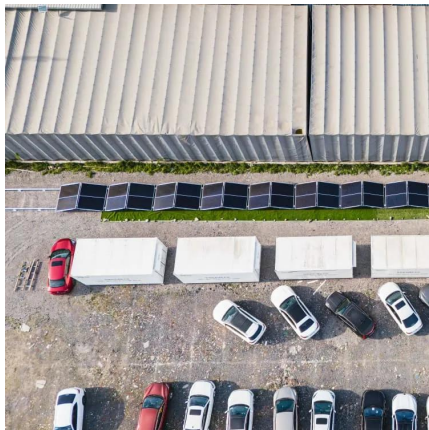
Measurement

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Measurement of Inverter Efficiency

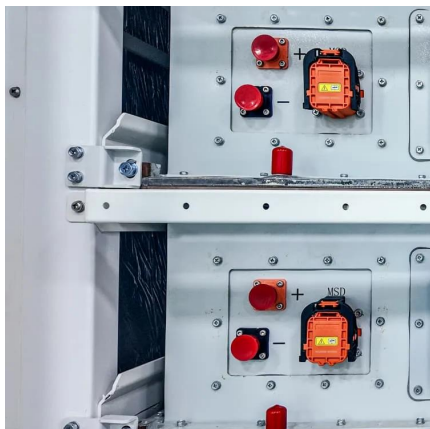
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