

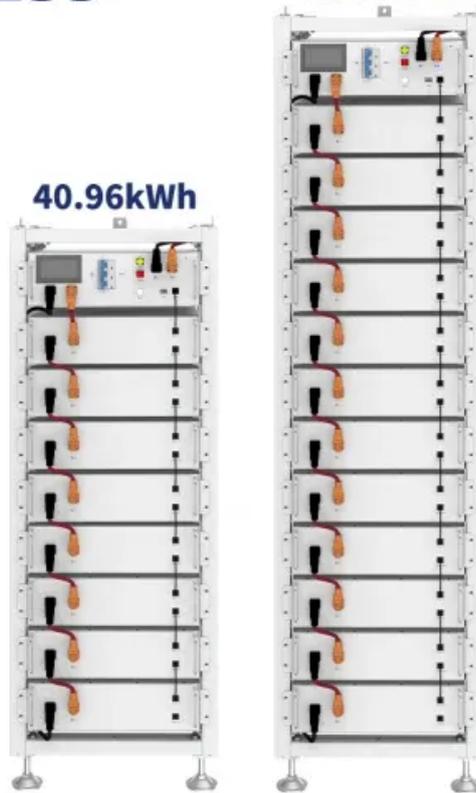
ContainerPower Energy Solutions

Inverter DC measurement

ESS

61.44kWh

40.96kWh



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.

How are currents and voltages measured in a pulse width modulated inverter?

The currents and voltages are measured in all three lines. Despite the pulsed voltage of the pulse width modulated inverter, the current is still approximately sinusoidal. Therefore, the current signal is used to derive the cycle time for mean-value calculation in the power measurement.

What is a measuring device in an inverter?

Measuring devices are integrated into the inverter. These devices ensure the proper system management of the inverter. The inverter's task is to determine the operating point along with the maximum yield.

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).

What is a pulse width modulated inverter?

Innovative measuring instruments are needed to be able to test and optimize the drive train of an electric vehicle. They must enable both highly accurate power measurements and calculation of various intermediate values. A pulse width modulated inverter converts a DC voltage into an AC voltage with variable frequency and amplitude.

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