

Actual output of 1 kWh of solar container outdoor power





Overview

What is a specific output Solar System?

Specific output relates the amount of power generated by a solar system in kilowatt hours (kWh) to the nominal output of the system (kWp). A period of one year is usually considered. Different system sizes allow comparison of specific performance.

How much energy does a PV system produce?

The average output of a PV system for single-family and multi-family dwellings is approximately 5 to 10 kWp. This corresponds to 800 to 1,200 kWh per kW peak. The amount of solar energy generated by PV depends on a number of factors, such as the location of the PV system and the performance and orientation of the PV modules.

How many kWh does a 1 kWp PV system produce?

1 kWp is equivalent to 1,000 kWh per year. The average 1 kWp PV system in Germany generates 1,000 kWh per year. With a 7 kWp PV system, 7,000 kWh can be realized. These values vary by location. You can expect higher yields in southern Germany than in the Far North, where global radiation is higher. The table below shows a rough estimate.

How much solar energy do you need for a photovoltaic system?

To make the system economically worthwhile, you should use as much solar energy as possible yourself. Due to the reduced feed-in tariff, it is no longer worthwhile to supply the public grid. For a 4 kWp photovoltaic system, you need 12-13 photovoltaic modules with a peak output of almost 320 watts. The invoice for this:



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