

## ContainerPower Energy Solutions

# Prices of solar modules in Europe and the United States



## Overview

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Note: Data is expressed in constant 2024 US\$ per watt.

[OurWorldinData.org/energy](https://OurWorldinData.org/energy) | CC BY IRENA presents solar photovoltaic module prices for a number of different technologies. Here we use the average yearly price for technologies 'Thin film a-Si/u-Si or Global Price Index (from Q4 2013)'. This.

In the last two years, the production of photovoltaic modules has skyrocketed. Clean Energy Associates (CEA) forecasts a 15 percent increase in annual solar production capacity by May 2025, while demand will increase by around 8 percent. Several factors have contributed to this imbalance. The.

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How much power does a monofacial solar module produce?

Each module has an area (with frame) of 1.9 m<sup>2</sup> and a rated power of 400 watts, corresponding to an efficiency of 21.1%. The monofacial modules were assembled in the United States in a plant producing 1.5 GW dc per year, using n-type crystalline silicon solar cells produced in Southeast Asia.

How efficient are bifacial solar modules?

Each module has an area (with frame) of 2.57 m<sup>2</sup> and a rated power of 530 watts, corresponding to an efficiency of 20.6%. The bifacial modules were produced in Southeast Asia in a plant producing 1.5 GW dc per year, using crystalline silicon solar cells also produced in Southeast Asia. In 2024Q1, these modules were not subject to import tariffs.

How much AC does a solar PV system produce?

The aluminum rails and module clamps are imported from China and subject to 25% tariff. Each module is paired with a microinverter rated at 330 W ac, giving the PV system a rated AC power output of 6.6 kW ac, which corresponds to an inverter loading ratio of 1.22.

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