

Prices of the three major photovoltaic modules





Overview

How much does a photovoltaic module cost?

Mainstream Modules: Average price of €0.11/Wp, stable compared to September but 21.4% lower than January 2024. Low-Cost Modules: Average price of €0.065/Wp, a 7.1% decrease from September and 27.8% from January 2024. These trends are exerting mounting pressure on the photovoltaic sector.

How much does a photovoltaic panel cost?

Mainstream Photovoltaic Panels: Average price of €0.10/Wp, down 9.1% month-on-month. Low-Cost Photovoltaic Modules: Average price of €0.060/Wp, a decrease of 7.7% compared to the previous month. These figures underscore the significant pressures in the photovoltaic market, as price reductions strain margins to unprecedented levels.

How efficient are photovoltaic modules in 2025?

But let's take a closer look at the figures recorded in January 2025: Photovoltaic modules with monocrystalline or bifacial HJT cells, N-type/TOPCon or xBC (Back Contact) and their combinations, with efficiencies above 22.5%.

Why are photovoltaic modules falling in 2024?

Prices for photovoltaic modules in 2024 continue to fall. According to the monthly index published by Germany's pvXchange Trading, the downward trend persists, driven largely—if not entirely—by Asian overproduction. The index focuses on the European market, which pvXchange has been monitoring since 2009 with a unique pricing tool.

How much does a top-five module cost in 2025?

A top-five module maker told OPIS that 2025 loading prices have not meaningfully increased, even with higher upstream costs. Current offers from leading manufacturers of utility-scale projects are in the low-\$0.080/W range.



The FOB China TOPCon module price for the first-half 2025 loading was at \$0.085/W, with values between \$0.082-0.087/W.

How many inverters does a PV system use?

The DC cables are connected to 19 utility-scale central inverters, each rated at 4 MW ac, giving the PV system a rated AC power output of 76 MW ac, which corresponds to an inverter loading ratio of 1.32. The inverters are made in Europe in a plant that produces 250 of them each year. These inverters are not subject to import tariffs.



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[Photovoltaic Module: Definition, Importance, Uses and Types](#)

Photovoltaic modules, or solar modules, are devices that gather energy from the sun and convert it into electrical power through the use of semiconductor-based cells. A ...

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[Photovoltaic Panels Price Guide 2025: Residential and ...](#)

This guide will brief you on what is the actual photovoltaic panels price in 2025 for households or business uses. So, what are we paying for when we invest in solar?

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[Common models and prices of photovoltaic cells](#)

Are photovoltaic modules reducing electricity prices? Over the past 20 years advances in technology have led to an impressive reduction in the cost of photovoltaic modules and other ...

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