

High-power photovoltaic module prices





Overview

High-Efficiency Photovoltaic Modules: Average price of €0.13/Wp, down 7.1% compared to October 2024. 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. 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%.

How much does a module cost in 2024?

High-Efficiency Modules: Average price of €0.14/Wp, down 6.7% from September 2024 and 39.1% from January 2024. 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.

Where did photovoltaic cost data come from?



Photovoltaic cost data between 1975 and 2003 has been taken from Nemet (2009), between 2004 and 2009 from Farmer & Lafond (2016), and since 2010 from IRENA. Prices from Nemet (2009) and Farmer & Lafond (2016) have been converted to 2024 US\$ using the US GDP deflator, to account for the effects of inflation.

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.



High-power photovoltaic module prices



High-Efficiency TOPCon Solar Panels For Sale At Fair-Price

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Solar (photovoltaic) panel prices

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 ...

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Global solar module prices mixed on varying demand expectations - pv

In a new weekly update for pv magazine, OPIS, a Dow Jones company, provides a quick look at the main price trends in the global PV industry.

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[Photovoltaic Module Prices 2025: Updated Data](#)

As of January 2025, solar module prices have remained relatively stable across all categories, including ultra-high-efficiency products and other module classes.



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Solar Photovoltaic Prices, PV modules, PV glass, PV ...

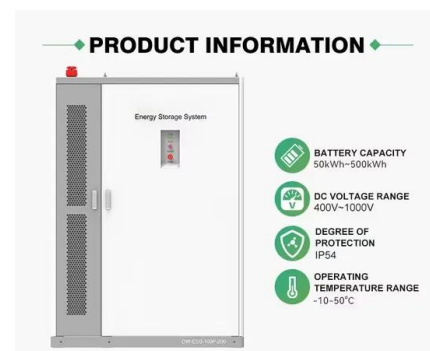
Solar cell prices is expected to remain firm amid policy direction. Supported by rising cost change and producers' willingness, cell prices are expected to ...

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Solar Photovoltaic System Cost Benchmarks

PV System Cost Model In the PV System Cost Model (PVSCM), the owner's overnight capital expense (cash cost) for an installed PV system is divided into ...

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Applications



Solar Photovoltaic System Cost Benchmarks

The U.S. Department of Energy's solar office and its national laboratory partners analyze cost data for U.S. solar photovoltaic systems to develop cost ...

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The Jinko 605-630W N-Type Bifacial Monocrystalline Solar Module delivers ultra-high power output and exceptional efficiency. Built with advanced N-Type cell technology and bifacial ...

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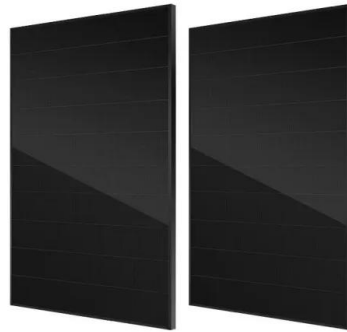




2025 Solar Panel Costs: Ultimate Guide to Pricing and ...

How to calculate solar price per watt Calculating the price per watt for a solar system is very straightforward -- it's simply the system cost divided ...

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Looking for info on the best solar panels? Discover expert opinions and data-driven insights on solar energy solutions for your home and based ...

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[The 9 most powerful solar panels \[2025\]](#)

Here are the most powerful solar panels currently available, with all the analysis you need to pick the best model for your home.

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[Welcome to China's PV 'Hunger Games'](#)

Major market reform policies in China have prompted an uptick in module production and prices as developers rush to complete projects. Image: ...

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Solar Photovoltaic System Cost Benchmarks

The U.S. Department of Energy's solar office and its national laboratory partners analyze cost data for U.S. solar photovoltaic systems to develop cost benchmarks to measure progress ...

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Quarterly Solar Industry Update , Department of Energy

Each quarter, the National Renewable Energy Laboratory conducts the Quarterly Solar Industry Update, a presentation of technical ...

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Solar (photovoltaic) panel prices

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Most powerful solar panels 2025

The primary driver for developing larger, more powerful solar panels is the desire to decrease the cost of utility-scale solar farms and ultimately lower electricity prices.

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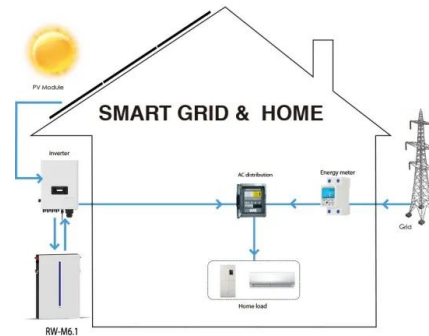


System Cost, Module Prices, and Quality

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What are the capacity forecasts, cost and price drivers influencing supplier decisions, the technological benefits and risks, and what precautions ...

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Solar Photovoltaic Prices, PV modules, PV glass, PV cells, PV ...

Solar cell prices is expected to remain firm amid policy direction. Supported by rising cost change and producers' willingness, cell prices are expected to remain above the average cash cost

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Photovoltaic (PV) Module Technologies: 2020 Benchmark ...

The National Renewable Energy Laboratory (NREL) tracks high-level policy drivers that affect module supply-demand dynamics and price while assessing the profitability of PV ...

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Global PV Module Market Analysis and 2025 Outlook

PV modules are the central component of the solar industry. This analysis reviews market conditions that affect solar panel pricing and availability.

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Photovoltaic Price Index

Every month we publish a current price index on the development of wholesale prices of solar modules. In doing so, we differentiate between the main technologies available on the market.

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Utility-Scale Renewables: An Analysis of Pricing ...

Our analysis indicates that power purchase agreement (PPA) prices are not expected to decrease significantly in the foreseeable future.

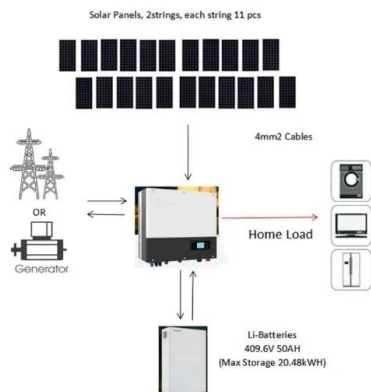
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Photovoltaic Module Prices 2025: Updated Data

As of January 2025, solar module prices have remained relatively stable across all categories, including ultra-high-efficiency products and other module classes.

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Solar panel

A single solar panel can produce only a limited amount of power; most installations contain multiple panels adding their voltages or currents. A ...

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[2025 Solar Panel Prices , Per Watt and by Type](#)

HomeAdvisor's Solar Panel Price Guide gives the average home solar system and panel prices. Explore solar panel pricing per watt or square foot.

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