



The price of U-type solar modules





Overview

Typical residential rates average about \$2.53 per watt before incentives. A 12 kW system averages roughly \$29,649 before credits, and full installed ranges often sit between \$25,000 and \$45,000. Larger orders usually lower the unit rate. Regional demand shapes offers.

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The PV Module Price Index tracks wholesale pricing and supply of crystalline-silicon modules that have fallen out of traditional distribution channels, and as a result are listed for resale on the EnergyBin exchange. For the fourth year, the price index findings shed light on the importance of a.

Solar module prices in the United States rose for the first time since summer, according to an Anza report, driven by tariff adjustments and uncertainty over ongoing patent litigation. While prices have since stabilized, module type, cell origin, and geopolitical factors continue to shape the.

As of 2026, the average cost of residential solar panels in the U.S. is between \$15,000 and \$25,000 before incentives. This typically translates to about \$2.50 to \$3.50 per watt of installed capacity (more on price per watt below). The total price depends on your system size, location, roof type.

Each year, the U.S. Department of Energy (DOE) Solar Energy Technologies Office (SETO) and its national laboratory partners analyze cost data for U.S. solar photovoltaic (PV) systems to develop cost benchmarks. These benchmarks help measure progress toward goals for reducing solar electricity costs.

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



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. How much does a resale solar module cost?

For example, N-Type modules by REC listed for resale in May and July pushed up weighted average prices to \$0.411 and \$0.460 respectively. P-Type modules in September increased to \$0.311 as modules by Sirius PV, Solar4America, and Panasonic were remarketed. The same price increase was present in P-Type Bifacials for the month of December.

What is the relative cost of solar energy?

Another measure of the relative cost of solar energy is its price per kilowatt-hour (kWh). Whereas the price per watt considers the solar system's size, the price per kWh shows the price of the solar system per unit of energy it produces over a given period of time. $\text{Net cost of the system} / \text{lifetime output} = \text{cost per kilowatt hour}$.

How much does a solar system cost per watt?

Ultimately, many factors figure into the price per watt of a solar system, but the average cost is typically as low as \$2.75 per watt. This price will vary if a project requires special adders like ground mounting, a main panel upgrade, an EV charger, etc.

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The price of U-type solar modules



Solar (photovoltaic) panel prices

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[US solar module prices rise as market absorbs tariffs](#)

US solar module prices rose in December 2024 for the first time since last summer, driven by tariff adjustments and patent litigation uncertainty, according to Anza. While prices ...



Solar module prices up a penny in 2025 as market absorbs tariffs

These modules have seen a 4.2% price increase since November, reaching \$0.25 per watt. Anza reports that its market share has grown as buyers hedge against supply risks ...

[Solar Photovoltaic System Cost Benchmarks](#)

Each benchmark system is representative of what is currently being installed in the United States and is defined in sufficient detail to assess the impact of system size, module efficiency, ...



PV spot price

InfoLink Consulting provides weekly updates on PV spot prices, covering module price, cell price, wafer price, and polysilicon price. Learn about photovoltaic panel price trends ...



[Solar module prices up a penny in 2025 as market ...](#)

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2026 Solar Panel Costs: Ultimate Guide to Pricing and Savings

Is The Price of Solar Panels Falling?How Much Does A Solar Panel Cost?Price Per Watt vs Cost Per KwhHow Do I Calculate The Cost of Solar Panels?How Much Do Solar Panels Cost Per Square foot?Do You Really Save Money with Solar Panels?How Much Does Solar Panel Installation Cost?How Much Does One Solar Panel Cost?How Can I Lower The Cost of Solar Panels?RecapThe price of solar panels has declined substantially over the last decade as the industry has matured and reached production at the largest global scale.



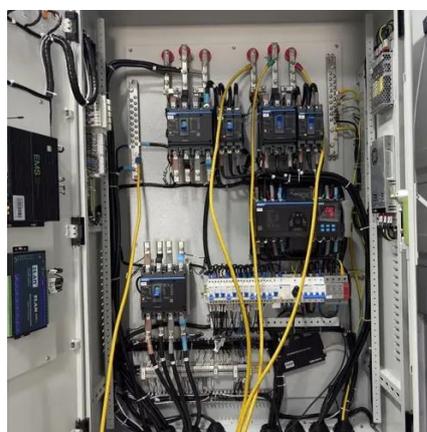
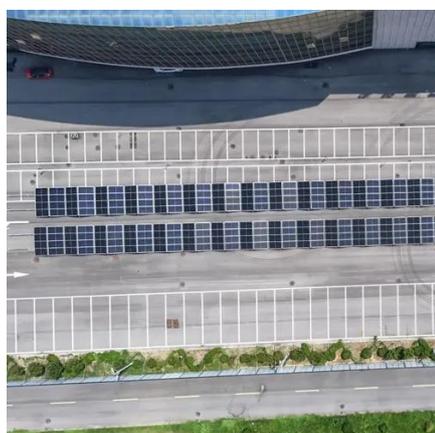
Since 2010, the cost to install solar panels on a home has fallen by roughly 50%. Costs rose slightly from 2020-2023 largely due to supply chain tangles from the pande...See more on solar
Missing: U-type
Must include: U-type
Department of Energy

Solar Photovoltaic System Cost Benchmarks

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2024 PV Module Price Index

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2026 Solar Panel Costs: Ultimate Guide to Pricing and Savings

Prices have ticked upward slightly in 2025 due to tariffs and a rush for solar before the 30% consumer solar tax credit expires on December 31, 2025. As a general trend, we expect U.S. ...



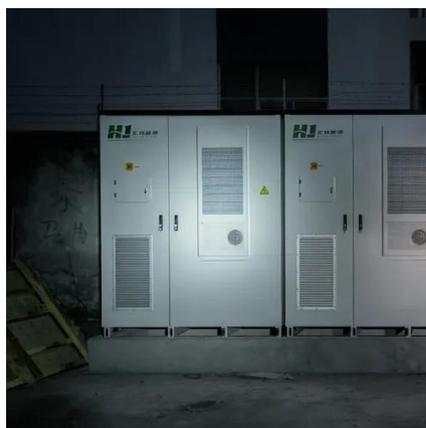
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[Solar Module Pricing Insights , Anza](#)

Access Anza's free quarterly PV panel price insights report for pricing data from more than 95% of the U.S. module supply.



URE SOLAR MODULES

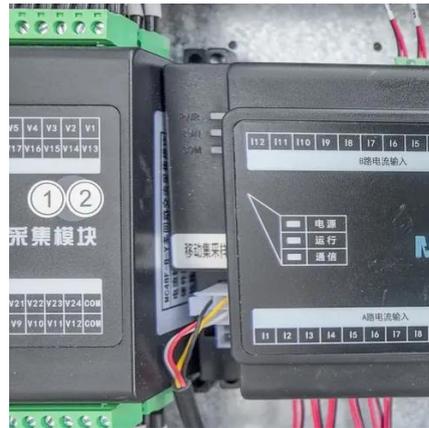
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Cost of Solar Panels in the U.S. (2025 Price per Watt & System ...



Module technology, inverter topology, and storage adders each affect yield, serviceability, and total ownership. This section compares options and shows when upgrades ...





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