

Price of Photovoltaic Power Generation Functional Module



Overview

Solar Photovoltaic System Cost BenchmarksThe PVSCM system cost is the price paid by the system owner to the system developer. Any tax credit PV Price Trend.

Key Takeaways

As of mid-2026, photovoltaic module prices in Europe range from approximately €0.095 to €0.13 per watt, depending on technology and efficiency.Current Price Overview

Photovoltaic module prices have rebounded slightly in 2026 after reaching historic lows in 2025. In Europe, standard monocrystalline PERC or TOPCon modules with efficiencies up to 23% are priced around €0.095–0.11/W, while high-efficiency modules such as bifacial heterojunction (HJT), n-type TOPCon, or back-contact (BC) panels exceeding 23% efficiency can cost more, often approaching €0.13/W . Full black modules with advanced technologies and efficiencies up to 22.5% are also included in the higher price segment .

Factors Influencing Prices

- Raw Material Costs: Rising prices for silicon, silver, and aluminum have contributed to higher module costs .
- Trade Policies: The removal of VAT rebates on Chinese photovoltaic exports in April 2026 has increased wholesale prices and accelerated shipments, impacting European market costs .

- **Supply-Demand Dynamics:** The rapid expansion of Chinese manufacturing capacity, combined with slower installation rates in Europe, has created temporary imbalances affecting module pricing .
- **Technological Advancements:** TOPCon and HJT technologies dominate high-efficiency segments, offering better performance but at a premium compared to standard PERC modules .

Global Price Context

Globally, module prices vary significantly: Chinese FOB prices are around \$0.087/W, European markets €0.095–0.11/W, and U.S. markets \$0.25–0.28/W, reflecting tariffs, domestic content requirements, and regional demand . Analysts project modest price increases through 2027, potentially reaching \$0.13/W in some markets due to manufacturing consolidation and the exit of financially stressed suppliers .

Practical Implications

For buyers and project developers, understanding these price ranges is crucial for budgeting and procurement. Large-scale projects may experience cost increases up to 20% due to recent policy changes and raw material price hikes . Monitoring monthly price indices, such as those provided by pvXchange, can help anticipate market fluctuations and optimize purchasing strategies . In summary, PV module prices are currently stable but slightly rising, with high-efficiency and advanced technology modules commanding a premium, while standard modules remain more affordable for commercial and residential installations.

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Photovoltaic Modules

2 Structure, dimensions, and material properties of photovoltaic modules A photovoltaic module is the main component of an energy

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