

Article Overview

Top global PV module manufacturers include JinkoSolar, LONGi, Trina Solar, JA Solar, Hanwha Qcells, First Solar, Canadian Solar, and REC, with production spanning China, South Korea, the U.S., and Europe.

Leading Global Manufacturers

- o JinkoSolar - Headquartered in China, JinkoSolar leads the global market with over 90 GW shipped in 2024, specializing in high-efficiency TOPCon modules and large-scale utility projects .
- o LONGi - Also based in China, LONGi shipped 82.32 GW in 2024, focusing on high-efficiency back-contact (BC) technology and global expansion .
- o Trina Solar - A major Chinese manufacturer with shipments exceeding 70 GW, investing heavily in R&D to maintain technological leadership .
- o JA Solar - Known for N-type modules, JA Solar ranks among the top globally for efficiency and reliability .
- o Hanwha Qcells - Headquartered in Seoul, South Korea, with manufacturing in South Korea, Malaysia, and the U.S., Qcells is recognized for strong warranties and U.S. market presence .
- o First Solar - A U.S.-based company specializing in thin-film modules for utility-scale projects, performing well in hot and humid climates .
- o Canadian Solar - Headquartered in Singapore with manufacturing in multiple regions, offering a wide range of TOPCon modules and integrated solutions including inverters and storage .
- o REC - Norwegian-based manufacturer with high-efficiency Alpha and Alpha Pure-R panels, strong warranties, and a presence in Europe, the U.S., and Australia .

Regional Manufacturing Insights

- o China dominates global PV manufacturing, producing over 80% of modules, wafers, and cells, and hosting the top suppliers of PV equipment .
- o Europe maintains specialized production and research centers, with manufacturers focusing on innovation and high-quality modules .
- o U.S. and South Korea host manufacturers like First Solar and Hanwha Qcells, combining local production with global distribution .

Considerations for Importing PV Modules

- o Technology type: TOPCon, N-type, BC, and thin-film modules vary in efficiency, cost, and suitability for different climates.
- o Warranty and reliability: Leading manufacturers provide 20-25 year performance warranties, critical for long-term projects.
- o Global supply chain: Importing modules may involve shipping from Asia or Europe, with potential lead times and tariffs affecting project costs . These manufacturers represent the most reliable sources for imported



Imported Photovoltaic Module Brands

PV modules, offering a combination of high efficiency, global availability, and strong technical support.

Tier 1 Solar Panel Manufacturers List - Q1 2026 BloombergNEF Ranking and Photovoltaic Market Evolution In the

List of solar panel manufacturers. A complete list of companies that make solar panels, including factory production and panel power

To help the industry chain fully understand the actual development of the industry, Solarbe

In 2024, the global solar module market continued to see the strongest players thrive, with the top four enterprises -- JinkoSolar,

According to EnergyTrend, the 2011 global top ten polysilicon, solar cell and solar module manufacturers by capacity were found in

Based on the 2025 market shipment forecast and technology analysis, this report provides an in-depth overview of the

Solar panel import tariffs are primarily intended to support the development of a new U.S.-based solar module

Wood Mackenzie's score-based ranking assessed more than 40 leading module manufacturers across 10 countries.

Where is the United States getting its solar cells? With various tariff battles and AD/CVD

PVTIME - On 10 June 2025, the PVBL 2025 Global Top 100 Solar Brands rankings and the PVBL 2025

Finlay Colville, head of market research at PV Tech, reveals the top ten PV module suppliers last year which was

To uncover the story behind the evolving top ten PV module manufacturers (by shipments), we must first understand

China produces over 80% of the world's solar panels. If you're an importer, EPC, distributor, or large buyer anywhere

Discover the top 10 solar PV module manufacturer companies in 2025, featuring American-made solar panels and industry leaders



Imported Photovoltaic Module Brands

Its product range includes its own developed components from the "GehrTec" brand of solar modules, inverters and complete

On the first day of the conference, PVBL's annual ranking of the most valuable photovoltaic brands was announced.

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