

Global Silicon Thin Film Solar Cell Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Silicon Thin Film Solar Cell market size is expected to reach \$ 96 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

In 2025, global Silicon Thin Film Solar Cell production reached approximately 57221 kw, the average price is 0.95 usd/w. Silicon Thin Film Solar Cell refers to a type of solar cell technology that utilizes a thin film of silicon as the light-absorbing material. Unlike traditional crystalline silicon solar cells, thin film solar cells are made by depositing a thin layer of silicon directly onto a substrate. This thin film can be made using various methods such as chemical vapor deposition or sputtering. Silicon Thin Film Solar Cells offer advantages such as flexibility, lower production costs, and better performance under low-light conditions. They are commonly used in building-integrated photovoltaics and portable solar panels due to their lightweight and versatile nature.

Market Concentration and Major Players:

Internationally, the silicon thin-film solar cell market is highly concentrated, mainly in developed countries in Europe and America. Large manufacturers include PowerFilm Solar and Panasonic Amorton. Domestically, however, silicon thin-film solar cells still have significant room for development.

Manufacturing Process and Market Trends:

Silicon thin-film solar cells typically use float glass or flexible stainless steel polyimide as substrates. After cleaning, a transparent conductive oxide film is deposited as the front electrode. This is then fed into a plasma-enhanced chemical vapor deposition system to sequentially grow a p-type amorphous silicon intrinsic absorber layer and an n-type

amorphous silicon pin junction. If tandem cells are to be fabricated, a tunnel composite layer and a microcrystalline silicon pin junction are deposited to absorb near-infrared light. The deposition process uses silane, hydrogen, and doped boron or phosphine as gas sources, followed by radio frequency or very high frequency glow discharge decomposition, and film formation at low temperatures of 200-300 degrees Celsius. After completion, a back reflective electrode is sputtered or evaporated, and laser scribing is used to connect individual cells in series. Finally, the edges are sealed or laminated to obtain the module.

In terms of the market, the market share of silicon thin film ground power stations has shrunk due to the sharp drop in the cost of crystalline silicon. Due to its advantages of large-area uniform deposition, good low-light performance and uniform dark appearance, it mainly targets photovoltaic building integrated curtain wall skylights and some consumer portable charging products. After multiple rounds of integration, the industry has shifted to segmented applications. The technology focuses on optimizing microcrystalline silicon and multi-junction stacked structure to suppress light-induced degradation, improve stability and efficiency, and explore flexible substrate roll-to-roll process to expand vehicle and wearable power supply scenarios. Overall, it maintains its niche market positioning.

This report studies the global Silicon Thin Film Solar Cell production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silicon Thin Film Solar Cell and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Silicon Thin Film Solar Cell that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Silicon Thin Film Solar Cell total production and demand, 2021-2032, (KW)

Global Silicon Thin Film Solar Cell total production value, 2021-2032, (USD Million)

Global Silicon Thin Film Solar Cell production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (KW), (based on production site)

Global Silicon Thin Film Solar Cell consumption by region & country, CAGR, 2021-2032 & (KW)

U.S. VS China: Silicon Thin Film Solar Cell domestic production, consumption, key domestic manufacturers and share

Global Silicon Thin Film Solar Cell production by manufacturer, production, price, value

and market share 2021-2026, (USD Million) & (KW)

Global Silicon Thin Film Solar Cell production by Structure, production, value, CAGR, 2021-2032, (USD Million) & (KW)

Global Silicon Thin Film Solar Cell production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KW)

This report profiles key players in the global Silicon Thin Film Solar Cell market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Trony (China), QS Solar (China), PowerFilm Solar (USA), Panasonic Amorton (Japan), SOLEMS (France), Onyx Solar (Spain), F-WAVE (Japan), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Silicon Thin Film Solar Cell market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (KW) and average price (USD/W) by manufacturer, by Structure, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Silicon Thin Film Solar Cell Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon Thin Film Solar Cell Market, Segmentation by Structure:

Amorphous Silicon

Microcrystalline Silicon

Others

Global Silicon Thin Film Solar Cell Market, Segmentation by Result:

Single Knot

Double Knot

Triple Knot

Global Silicon Thin Film Solar Cell Market, Segmentation by Substrate:

Glass-based

Metal Foil-based

Polymer-based

Global Silicon Thin Film Solar Cell Market, Segmentation by Application:

Industrial

Commercial

Residential

Companies Profiled:

Trony (China)

QS Solar (China)

PowerFilm Solar (USA)

Panasonic Amorton (Japan)

SOLEMS (France)

Onyx Solar (Spain)

F-WAVE (Japan)

Key Questions Answered:

1. How big is the global Silicon Thin Film Solar Cell market?
2. What is the demand of the global Silicon Thin Film Solar Cell market?
3. What is the year over year growth of the global Silicon Thin Film Solar Cell market?
4. What is the production and production value of the global Silicon Thin Film Solar Cell market?
5. Who are the key producers in the global Silicon Thin Film Solar Cell market?
6. What are the growth factors driving the market demand?

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