

Thin-film photovoltaic module market share

What is the global thin-film photovoltaic market?

On the basis of end-user, the global thin-film photovoltaic market can be primarily bifurcated into residential, commercial, and utility. Thin-film photovoltaics are widely incorporated in residential uses to generate inexpensive solar electricity and can withstand variable loads like rough wind conditions.

Which companies are involved in the thin-film photovoltaic market?

Some of the major participants that are operating in the thin-film photovoltaic market are Global Solar Energy, MiaSolé, Avancis GmbH, Solar Frontier K.K., First Solar, Solibro GmbH, Kaneka Corporation, Sharp Electronics Corporation USA, Ascent Solar Technologies, Inc., Xunlight (Kunshan) Co., Ltd., TS Solar GmbH, Flisom AG, and Crystalsol.

How big is the thin-film PV module market?

The global thin-film PV module market was valued at US\$8.896 billion in 2020 and is expected to grow at a CAGR of 3.81% over the forecast period to reach a total market size of US\$11.557 billion in 2027. Thin-film solar modules are made from thin-film solar cells.

How can thin-film photovoltaic market grow?

Favorable policies to adopt renewable energy as a primary fuel along with continuous research & development to cut costs in the near future is set to positively cater to the thin-film photovoltaic market growth. Different governments are raising measures to curb national GHG emissions and deploy low carbon technologies.

What is CIGS thin-film photovoltaic market growth?

Extensive applications in large scale use, commercial operations, high absorption rate, tandem & protective design, and very high efficiency are some of the factors that are set to cater to the Copper Indium Gallium Diselenide (CIGS) thin-film photovoltaic market growth.

How many thin-film PV modules did the US import in 2019?

According to the EIA (the U.S. Energy Information Administration), the country manufactured more than 600 MW of thin-film modules in 2019. After this tariff imposition, 8 GW of imported PV modules did not have a tariff in 2019, while most of these modules (4.3 GW) were thin-film modules.

Commercial thin-film PV market is projected to grow to a substantial share over the forecast timeframe owing to their increasing adoption as the building-integrated photovoltaic systems ...

Government initiatives, household adoption, and renewable energy investment will likely boost the thin-film photovoltaic market share. Thin-film photovoltaic (PV) technology is a type of solar ...

Thin-film photovoltaic module market share

The main types of thin-film photovoltaics (PV) modules are rigid and flexible. A rigid thin-film photovoltaic (PV) module is a lightweight, durable solar panel ...

This makes thin-film solar modules' improved capabilities, cost, and environmental benefits poised to capture an increasingly large share of the global solar PV market in the next few years.

The global thin film solar cell market size is calculated at USD 14.31 billion in 2024 and is projected to hit around USD 32.06 billion by 2034 with a ...

In this work, we review thin film solar cell technologies including p-Si , CIGS and CdTe, starting with the evolution of each technology in Section 2, followed by a discussion of ...

This comprehensive research report examines key regions that drive the evolution of the Thin-Film Photovoltaic market, offering deep insights into regional trends, growth factors, and ...

The module segment witnessed the largest revenue share in the thin-film photovoltaic market in 2022. Over the past few years, the module demand has grown dramatically due to factors ...

By Technology: Innovations in materials such as passivated emitter rear cells (PERC), bifacial modules, and thin-film technologies are enhancing module ...

In comparison, the thin-film market is more consolidated with the market leader being US-based First Solar, with a share of 45% in 2021. Other significant solar module suppliers are Hanergy ...

The COVID-19 pandemic emphasized the importance of sustainable energy solutions and remote solar applications. Looking ahead, the Thin Film Photovoltaic Modules market is poised for ...

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Thin film photovoltaics (PV) currently comprises a small portion of the total solar market, yet offer extensive opportunities for applying solar ...

Asia Pacific dominated the global thin film photovoltaics market in 2023, accounting for a share of over 35%. The region's dominance can be attributed to its strong commitment to adopting ...

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The global thin film solar cell market size accounted for USD 14.31 billion in 2024, grew to USD 15.51

billion in 2025 and is predicted to surpass around USD 32.06 billion by ...

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In addition, the efficiency of thin-film photovoltaic modules decreases rapidly as temperatures rise. In order to still be able to feed in enough energy, thin-film ...

Statistics for the 2025 Thin Film Solar PV market share, size and revenue growth rate, created by Mordor Intelligence(TM) Industry Reports. Thin ...

The solar PV module market size crossed USD 280.5 billion in 2023 and is estimated to grow at a CAGR of more than 8.2% from 2024 to 2032, owing to ...

Solar Photovoltaic Market Size & Share Analysis - Growth Trends & Forecasts (2025 - 2030) The Solar Photovoltaic (PV) Market Report is ...

The Asia Pacific thin-film photovoltaics market share is projected to hold the largest share during the forecast period. Global market players from Asia Pacific countries like China, Japan, India, ...

Thin-Film Photovoltaics Market is driven by rising demand for flexible solar panels, cost-effective energy solutions, and advancements in thin film...

Europe PV Market Size & Share Analysis - Growth Trends & Forecasts (2025 - 2030) The Europe PV Market report segments the industry into Type (Thin Film, Crystalline ...

Statistics for the 2025 Thin Film Solar PV market share, size and revenue growth rate, created by Mordor Intelligence(TM) Industry Reports. Thin Film Solar PV analysis includes ...

The solar PV panels market size reached at USD 184.29 billion in 2024 and is predicted to surpass around USD 384.44 billion by 2034 with a ...

Solar Power Market Size, Share & Industry Analysis, By Technology {Solar Photovoltaic (PV) (Mono-Si, Thin Film, Multi-Si, and Others) and Concentrated Solar Power ...

Market-share of thin-film technologies in terms of annual production since 1980 Early research into thin-film solar cells began in the 1970s. In 1970, Zhores ...

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