

Global Thin-film Amorphous Silicon Solar Cell Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Thin-film Amorphous Silicon Solar Cell market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

A thin-film amorphous silicon solar cell is a type of photovoltaic (PV) cell that is based on amorphous silicon (a-Si) as the semiconductor material. Thin-film amorphous silicon solar cells have found applications in a range of devices, including building-integrated photovoltaics (BIPV), consumer electronics, solar chargers, and portable solar devices. They are particularly useful in scenarios where flexibility, lightweight structures, and large-scale power generation options are desired.

China has implemented the Renewable Energy Law since 2006, in which Article 4 clearly states that, the State gives first priority to the exploration of renewable energy. Over the years, various departments of the Chinese government have successively issued a large number of policies, covering production, sales, taxation, subsidies and other aspects. After setting the carbon neutrality goal in 2021, from a national perspective, the upgrading of the energy structure is ever imperative, and therefore the optoelectronic industry has great potential. The European Commission released the Net-Zero Industry Act in 2023. This bill aims to stimulate local manufacturing in Europe, reduce import dependence on China, and ensure that at least 40% of the EU's clean energy demand can be met by 2030. The EU targets an installed solar capacity of 600 GW. Overall, the European market still has a lot of room for development. US 2022 release of the Inflation Reduction Act, which includes \$369 billion for energy security and climate change investments. For the photovoltaic industry, the bill stimulates its development from multiple aspects such as corporate and individual tax credits,

production subsidies, and loans throughout the industry chain, and revitalizes the domestic manufacturing industry in the United States. Japanese authorities plan to make solar panels mandatory for new residential buildings in Tokyo from 2025 onwards. It is estimated that by 2030, photovoltaic power generation will account for 14%-16% of Japan's total power generation, and the cumulative installed capacity of photovoltaic systems will be about 117.243 GW.

The Global Info Research report includes an overview of the development of the Thin-film Amorphous Silicon Solar Cell industry chain, the market status of Photovoltaic Building Integration (Single Junction, Dual-Junction), Consumer Electronics (Single Junction, Dual-Junction), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Thin-film Amorphous Silicon Solar Cell.

Regionally, the report analyzes the Thin-film Amorphous Silicon Solar Cell markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Thin-film Amorphous Silicon Solar Cell market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Thin-film Amorphous Silicon Solar Cell market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Thin-film Amorphous Silicon Solar Cell industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (GWh), revenue generated, and market share of different by Type (e.g., Single Junction, Dual-Junction).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Thin-film Amorphous Silicon Solar Cell market.

Regional Analysis: The report involves examining the Thin-film Amorphous Silicon Solar Cell market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Thin-film Amorphous Silicon Solar Cell market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Thin-film Amorphous Silicon Solar Cell:

Company Analysis: Report covers individual Thin-film Amorphous Silicon Solar Cell manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Thin-film Amorphous Silicon Solar Cell. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Photovoltaic Building Integration, Consumer Electronics).

Technology Analysis: Report covers specific technologies relevant to Thin-film Amorphous Silicon Solar Cell. It assesses the current state, advancements, and potential future developments in Thin-film Amorphous Silicon Solar Cell areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Thin-film Amorphous Silicon Solar Cell market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Thin-film Amorphous Silicon Solar Cell market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and

forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Single Junction

Dual-Junction

Multi-Junction

Market segment by Application

Photovoltaic Building Integration

Consumer Electronics

Solar Power Charger

Others

Major players covered

Hanergy

Sharp Thin Film

Trony

GS Solar

QS Solar

T-Solar Global

Solar Frontier

Panasonic

Bosch Solar

United Solar

Kaneka

Schott Solar

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Thin-film Amorphous Silicon Solar Cell product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thin-film Amorphous Silicon Solar Cell, with price, sales, revenue and global market share of Thin-film Amorphous Silicon Solar Cell from 2019 to 2024.

Chapter 3, the Thin-film Amorphous Silicon Solar Cell competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thin-film Amorphous Silicon Solar Cell breakdown data are shown at the

regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Thin-film Amorphous Silicon Solar Cell market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Thin-film Amorphous Silicon Solar Cell.

Chapter 14 and 15, to describe Thin-film Amorphous Silicon Solar Cell sales channel, distributors, customers, research findings and conclusion.

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