

# Global Thin-film Solar Cell Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Thin-film Solar Cell market size is expected to reach \$ 26270 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

Thin film solar cells refer to the fact that these types of solar cells use a much thinner level of photovoltaic material than mono-crystalline or multi-crystalline solar cells. The thin-film solar cells are made by depositing one or more thin layers, or thin film (TF) of photovoltaic material on a substrate, such as glass, plastic or metal. Thin-film solar cells are commercially used in several technologies, including cadmium telluride (CdTe), copper indium gallium diselenide (CIGS), and amorphous thin-film silicon (a-Si, TF-Si)

Now, the leading manufacturers of Thin-film Solar Cells located in the USA, Japan and China, such as First Solar (USA), occupied 50% market share, followed by Solar Frontier (Japan), Sharp Thin Film (Japan) and Hanergy (China), they occupied 18%, 4%, 6% market share, thus the four leading companies hold above 80% market share in the world market. There is a big gap between domestic companies and abroad companies, the major companies include Hanergy, ENN Energy Holdings and Topray Solar in China.

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

This report is a detailed and comprehensive analysis of the world market for 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 Thin-film Solar Cell that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global Thin-film Solar Cell total production and demand, 2021-2032, (K Units)

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

Global Thin-film Solar Cell production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Thin-film Solar Cell consumption by region & country, CAGR, 2021-2032 & (K Units)

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

Global Thin-film Solar Cell production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Thin-film Solar Cell production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Thin-film Solar Cell production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 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 First Solar, Solar Frontier, Sharp Thin Film, MiaSole, NexPower, Stion, Calyxo, Kaneka Solartech, Bangkok Solar, Wurth Solar, 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 Thin-film Solar Cell market

## Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/Unit) by manufacturer, by Type, 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 Thin-film Solar Cell Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Thin-film Solar Cell Market, Segmentation by Type:

CdTe Thin-Film Solar Cells

CIS/CIGS Thin-Film Solar Cells

A-Si Thin-Film Solar Cells

#### Global Thin-film Solar Cell Market, Segmentation by Application:

Residential Application

Commercial Application

## Utility Application

### Companies Profiled:

First Solar

Solar Frontier

Sharp Thin Film

MiaSole

NexPower

Stion

Calyxo

Kaneka Solartech

Bangkok Solar

Wurth Solar

Global Solar Energy

Hanergy

ENN Energy Holdings

Topray Solar

### **Key Questions Answered:**

1. How big is the global Thin-film Solar Cell market?
2. What is the demand of the global Thin-film Solar Cell market?
3. What is the year over year growth of the global Thin-film Solar Cell market?

4. What is the production and production value of the global Thin-film Solar Cell market?
5. Who are the key producers in the global Thin-film Solar Cell market?
6. What are the growth factors driving the market demand?

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