

# Global Thin-film Solar Cell Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Thin-film Solar Cell market size will reach 14,519 Million USD in 2025 and is projected to reach 28,006 Million USD by 2032, with a CAGR of 9.84% (2025-2032). Notably, the China Thin-film Solar Cell market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

A thin-film solar cell is a type of photovoltaic (PV) cell that is made using thin layers of semiconductor materials deposited onto a substrate. Unlike traditional crystalline silicon solar cells, which are made from thick silicon wafers, thin-film solar cells use much thinner layers of materials such as cadmium telluride (CdTe), copper indium gallium selenide (CIGS), or amorphous silicon (a-Si). These materials can be deposited onto flexible substrates like glass, metal, or plastic, allowing for lightweight, flexible, and even transparent solar panels. Thin-film solar cells are known for their lower manufacturing costs compared to crystalline silicon cells due to less material usage and simpler production processes such as sputtering, evaporation, or chemical vapor deposition (CVD). They also have advantages in low-light conditions and high-temperature environments, although they generally have lower efficiency rates compared to crystalline silicon cells. Thin-film solar cells are commonly used in applications where flexibility, lightweight design, or aesthetic considerations are important, such as building-integrated photovoltaics (BIPV), portable electronics, solar-powered chargers, and off-grid solar systems. Ongoing research and development efforts aim to improve the

efficiency and durability of thin-film solar cells to make them more competitive with traditional solar technologies.

The major global manufacturers of Thin-film Solar Cell include First Solar, Solar Frontier, Sharp Thin Film, MiaSole, NexPower, Stion, Calyxo, Kaneka Solartech, Bangkok Solar, Würth Solar, Global Solar Energy, Hanergy, ENN Energy Holdings, Topray Solar, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Thin-film Solar Cell. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Thin-film Solar Cell market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Thin-film Solar Cell market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Thin-film Solar Cell industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Thin-film Solar Cell Include:

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

Thin-film Solar Cell Product Segment Include:

CdTe Thin-Film Solar Cells

CIS/CIGS Thin-Film Solar Cells

A-Si Thin-Film Solar Cells

Thin-film Solar Cell Product Application Include:

Residential Application

Commercial Application

Utility Application

## **Chapter Scope**

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