

Global Photovoltaic Composite Frame Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G538B2F01F68EN.html>

Date: August 2026

Pages: 139

Price: US\$ 4,480.00 (Single User License)

ID: G538B2F01F68EN

Abstracts

The global Photovoltaic Composite Frame market size is expected to reach \$ 1007 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

A photovoltaic composite frame is a frame structure material mainly used to fix and seal photovoltaic modules. It is typically manufactured using composite materials such as glass fiber-reinforced polyurethane (GF-PU) through pultrusion processes. Compared with traditional aluminum alloy frames, composite frames offer four major advantages: lower material cost, excellent weather resistance, insulation properties, lightweight, and aesthetic appeal. The global average selling price for photovoltaic composite frames is approximately US\$65 per unit. The average sales volume in the base year is estimated at 7,69k units. The industry average gross margin is approximately 35%, with typical ranges between 25% and 45%, reflecting the emerging nature of the market and the ongoing transition from aluminum to composite materials. The upstream segment includes manufacturers of glass fibers, polyurethane resins, and other raw materials. The midstream segment comprises composite frame manufacturers that produce, process, and coat finished frame products through pultrusion and other forming processes. The downstream segment encompasses photovoltaic module manufacturers, solar project developers, and EPC contractors that utilize these frames for residential, commercial, and ground-mounted solar installations.

The photovoltaic composite frame market is undergoing rapid transformation driven by the convergence of cost reduction pressures, sustainability imperatives, and expanding application scenarios. The industry is witnessing a fundamental shift from traditional aluminum frames to composite alternatives, as composite frames offer credible cost advantages?currently approximately 55?65 yuan per set compared to 70 yuan for

aluminum frames, representing a cost reduction of about 29%. The penetration rate of composite frames is accelerating, with conservative estimates projecting 19% penetration in 2025 (132GW demand) and optimistic scenarios reaching 39% (264GW demand). The expansion of photovoltaic installations into extreme environments?offshore, desert, and high-salinity coastal regions?is creating new demand for composite frames, as aluminum alloys suffer from corrosion in high-salt fog environments while composites offer excellent corrosion resistance. The integration of sustainability considerations is reshaping procurement decisions, with composite frames delivering significantly lower carbon footprints?up to 85% reduction compared to aluminum?and supporting the circular economy through emerging recycling technologies. Regulatory frameworks, including EU Carbon Border Adjustment Mechanism (CBAM) and zero-carbon park initiatives, are accelerating adoption. The industry is transitioning from price-driven competition to value-based competition, with leading players focusing on cost control, quality standards, and delivery capabilities. As the global push for decarbonization intensifies and photovoltaic installations expand into challenging environments, the composite frame market is positioned for sustained high-growth across both developed and emerging markets.

This report studies the global Photovoltaic Composite Frame production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Photovoltaic Composite Frame 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 Photovoltaic Composite Frame that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Photovoltaic Composite Frame total production and demand, 2021-2032, (K Untis)

Global Photovoltaic Composite Frame total production value, 2021-2032, (USD Million)

Global Photovoltaic Composite Frame production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Untis), (based on production site)

Global Photovoltaic Composite Frame consumption by region & country, CAGR, 2021-2032 & (K Untis)

U.S. VS China: Photovoltaic Composite Frame domestic production, consumption, key domestic manufacturers and share

Global Photovoltaic Composite Frame production by manufacturer, production, price,

value and market share 2021-2026, (USD Million) & (K Untis)

Global Photovoltaic Composite Frame production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Untis)

Global Photovoltaic Composite Frame production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Untis)

This report profiles key players in the global Photovoltaic Composite Frame 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 Covestro AG, Zhejiang Deyilong Technology, Zhenshi Holding Group, Jiangsu Worldlight New Material, Foremost Technology, Zhejiang Bofay Electric, BASF SE, LESSO Solar, Taporel Solar, Wanhua Chemical, 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 Photovoltaic Composite Frame market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Untis) and average price (US\$/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 Photovoltaic Composite Frame Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Photovoltaic Composite Frame Market, Segmentation by Type:

Open Cavity

Closed Cavity

Global Photovoltaic Composite Frame Market, Segmentation by Material Type:

Glass Fiber-Reinforced Polyurethane (GF-PU)

PET/GF Composites

Carbon Fiber Composites

Basalt Fiber Composites

Thermoplastic Composites (PP, PPS, Nylon)

Global Photovoltaic Composite Frame Market, Segmentation by Carbon Footprint:

Standard Composite Frames

Low-Carbon / Recyclable Composite Frames

Global Photovoltaic Composite Frame Market, Segmentation by Application:

Centralized Photovoltaic Power Station

Distributed Photovoltaic Power Station

Companies Profiled:

Covestro AG

Zhejiang Deyilong Technology

Zhenshi Holding Group

Jiangsu Worldlight New Material

Foremost Technology

Zhejiang Bofay Electric

BASF SE

LESSO Solar

Taporel Solar

Wanhua Chemical

3M Company

DuPont de Nemours

Hanwha Q CELLS

JinkoSolar

LONGi Green Energy

Trina Solar

Zhuzhou Times New Material Technology

Key Questions Answered:

1. How big is the global Photovoltaic Composite Frame market?
2. What is the demand of the global Photovoltaic Composite Frame market?
3. What is the year over year growth of the global Photovoltaic Composite Frame market?
4. What is the production and production value of the global Photovoltaic Composite Frame market?
5. Who are the key producers in the global Photovoltaic Composite Frame market?
6. What are the growth factors driving the market demand?

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