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Global Composite Material Frames for PV Modules Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G5FB641596E7EN.html
Date: November 2026
Pages: 98
Price: US$ 4,480.00 (Single User License)
ID: G5FB641596E7EN

Abstracts

The global Composite Material Frames for PV Modules market size is expected to reach $ 2001 million by 2032, rising at a market growth of 23.6% CAGR during the forecast period (2026-2032).

Composite material frames for PV modules are structural perimeter profiles made from fiber-reinforced polymer systems, principally pultruded glass-fiber-reinforced polyurethane, that secure and protect photovoltaic laminates during transport, installation and long-term operation. The market covers commercial frame profiles, corner connections and assembled frame solutions for single-glass, double-glass, lightweight and BIPV modules. Key attributes include mechanical load capacity, creep resistance, weathering, glass-compatible thermal expansion, electrical insulation, corrosion resistance and automated module-line compatibility.

Key Findings

Pultruded polyurethane dominates commercial composite frame adoption

Corrosion resistance opens offshore and chemical-rooftop applications

Module-line compatibility and certification determine supplier conversion

Market Trends

Composite PV frames are moving from pilot qualification to larger automated production, supported by lower carbon footprint, insulation and resistance to salt spray.

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Profile designs are becoming thinner and more standardized for large double-glass modules, while coating, corner-key and adhesive systems are co-developed as a complete frame package. Customers increasingly demand extended damp-heat, UV, mechanical-load and fire evidence plus automatic cutting and framing compatibility before volume adoption.

Market Dynamics

Drivers

Aluminum price and carbon intensity encourage alternative frames, while insulation can reduce grounding and PID risk. Coastal, offshore and corrosive rooftops value salt-spray resistance.

Restraints

Long outdoor-life evidence, creep behavior, corner strength and recycling routes remain less mature than aluminum. Module makers face line modification and requalification costs.

Opportunities

Large double-glass, BIPV, balcony, lightweight and offshore modules create differentiated profile designs. Standardized interfaces and automated assembly can accelerate adoption beyond pilot projects.

Challenges

Suppliers must control fiber wet-out, pultrusion speed, voids, coating adhesion and dimensional tolerance at high volume. Bankability depends on warranties, fire behavior and multi-year field data across climates.

Industry Chain Analysis

Upstream supplies glass-fiber rovings, polyurethane or thermoplastic resins, additives,

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coatings, adhesives, corner keys and pultrusion equipment. Frame makers impregnate and pultrude continuous fiber, cure and surface-protect profiles, machine drainage and mounting features, cut lengths and supply corner-joining systems. Module manufacturers bond and assemble frames around laminated glass before distributors, EPC contractors and asset owners deploy modules. Fiber, resin and coating drive material cost; pultrusion productivity, profile design, corner reliability, certification and module-line integration create the principal value.

Segment Insights

Glass-fiber-reinforced polyurethane is the dominant matrix because pultrusion delivers high longitudinal strength, corrosion resistance and established continuous production. Thermoplastic composites offer potential recyclability and impact toughness but require stable impregnation, joining and dimensional control. Other thermosets occupy specialized profiles where resin chemistry or fire performance matters. Near-term growth will remain concentrated in polyurethane systems that have module certifications, automated assembly references and multi-climate field data.

Downstream Market Opportunities

Utility-scale double-glass modules offer the largest volume opportunity once standardized profiles meet load and automation requirements. Distributed rooftops benefit from lower weight and electrical insulation, while chemical and coastal roofs value corrosion resistance. Offshore PV is a high-value emerging niche with demanding salt-spray and mechanical conditions. BIPV, balcony and lightweight modules create customized color, geometry and attachment opportunities where composite processing can differentiate beyond a direct aluminum replacement.

Regional Insights

China is the center of composite PV frame manufacturing and qualification because it combines the world's largest module production base with specialized pultrusion suppliers. Representative companies include Worldlight New Material?Zhenshi New Material?Bofay Green Energy?Fumotech?Nantong Aina New Energy?Jinbo Zhilian New Energy?Haicheng Composites and LESSO Solar. South Korea contributes commercial composite-frame technology, while Europe supports material standards, certification and low-carbon demand. Adoption in North America and other regions depends on module warranties, fire rules and localized bankability evidence.

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Competitive Landscape Analysis

The global representative manufacturers include Worldlight New Material?Zhenshi New Material?Bofay Green Energy?Fumotech?Nantong Aina New Energy?Jinbo Zhilian New Energy?Haicheng Composites, PY Composites and LESSO Solar. Competition is concentrated in China because qualification occurs close to module factories. Leading suppliers differentiate through profile portfolios, coating and corner systems, automated framing compatibility, TÜV or equivalent certification and field references.

Report Scope

This report studies the global Composite Material Frames for PV Modules production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Composite Material Frames for PV Modules total production and demand, 2021-2032, (Kilotons)

Global Composite Material Frames for PV Modules total production value, 2021-2032, (USD Million)

Global Composite Material Frames for PV Modules production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Composite Material Frames for PV Modules consumption by region & country, CAGR, 2021-2032 & (Kilotons)

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U.S. VS China: Composite Material Frames for PV Modules domestic production, consumption, key domestic manufacturers and share

Global Composite Material Frames for PV Modules production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Composite Material Frames for PV Modules production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Composite Material Frames for PV Modules production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Composite Material Frames for PV Modules 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 Worldlight New Material, Zhenshi New Material, Bofay Green Energy, Fumotech, Nantong Aina New Energy, Jinbo Zhilian New Energy, Haicheng Composites, PY Composites, LESSO 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 Composite Material Frames for PV Modules market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Kilotons) and average price (US$/Ton) 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 Composite Material Frames for PV Modules Market, By Region:

United States

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China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Composite Material Frames for PV Modules Market, Segmentation by Type:

Glass-fiber-reinforced Polyurethane

Thermoplastic Composite

Other Thermoset Composite

Global Composite Material Frames for PV Modules Market, Segmentation by Module Construction:

Single-glass Modules

Double-glass Modules

Lightweight Laminates

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Global Composite Material Frames for PV Modules Market, Segmentation by Profile Assembly:

Cut-and-corner-key Frames

Integrated Corner Structures

Adhesive-bonded Custom Profiles

Global Composite Material Frames for PV Modules Market, Segmentation by Application:

Utility-scale Ground-mounted Modules

Distributed Rooftop Modules

Offshore and Coastal PV

Others

Companies Profiled:

Worldlight New Material

Zhenshi New Material

Bofay Green Energy

Fumotech

Nantong Aina New Energy

Jinbo Zhilian New Energy

Haicheng Composites

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PY Composites

LESSO Solar

Key Questions Answered

1. How big is the global Composite Material Frames for PV Modules market?
2. What is the demand of the global Composite Material Frames for PV Modules market?
3. What is the year over year growth of the global Composite Material Frames for PV Modules market?
4. What is the total value of the global Composite Material Frames for PV Modules market?
5. Who are the Major Players in the global Composite Material Frames for PV Modules market?
6. What are the growth factors driving the market demand?

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