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Global Composite Material Frames for PV Modules Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Composite Material Frames for PV Modules market size was valued at US$ 422 million in 2025 and is forecast to a readjusted size of US$ 2001 million by 2032 with a CAGR of 23.6% during review period.

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

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

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

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module warranties, fire rules and localized bankability evidence.

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 is a detailed and comprehensive analysis for global Composite Material Frames for PV Modules market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Composite Material Frames for PV Modules market size and forecasts, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Composite Material Frames for PV Modules market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Composite Material Frames for PV Modules market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Composite Material Frames for PV Modules market shares of main

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players, shipments in revenue ($ Million), sales quantity (Kilotons), and ASP (US$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Composite Material Frames for PV Modules

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Composite Material Frames for PV Modules market based on the following parameters - company overview, sales quantity, revenue, 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.

Composite Material Frames for PV Modules market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Glass-fiber-reinforced Polyurethane

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Thermoplastic Composite

Other Thermoset Composite

Market segment by Module Construction

Single-glass Modules

Double-glass Modules

Lightweight Laminates

Market segment by Profile Assembly

Cut-and-corner-key Frames

Integrated Corner Structures

Adhesive-bonded Custom Profiles

Market segment by Application

Utility-scale Ground-mounted Modules

Distributed Rooftop Modules

Offshore and Coastal PV

Others

Major players covered

Worldlight New Material

Zhenshi New Material

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Bofay Green Energy

Fumotech

Nantong Aina New Energy

Jinbo Zhilian New Energy

Haicheng Composites

PY Composites

LESSO 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)

Chapter Outline

Chapter 1, to describe Composite Material Frames for PV Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Composite Material Frames for PV Modules, with price, sales quantity, revenue, and global market share of Composite Material Frames for PV Modules from 2021 to 2026.

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Chapter 3, the Composite Material Frames for PV Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Composite Material Frames for PV Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026.and Composite Material Frames for PV Modules market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Composite Material Frames for PV Modules.

Chapter 14 and 15, to describe Composite Material Frames for PV Modules sales channel, distributors, customers, research findings and conclusion.

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