

Global Composite Material Battery Pack Enclosures 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 Battery Pack Enclosures market size was valued at US\$ 388 million in 2025 and is forecast to a readjusted size of US\$ 1220 million by 2032 with a CAGR of 17.4% during review period.

In 2025, global Composite Material Battery Pack Enclosures production reached approximately 2199 K Units, with an average global market price of around 171 USD per Unit.

Composite Material Battery Pack Enclosures are high-performance, lightweight structural components, typically formed by molding reinforcing fibers (carbon fiber, glass fiber, etc.) and a resin matrix (epoxy, polyester, PA, etc.) through processes such as compression molding and injection molding. Their core function is to provide an integrated solution for battery systems, offering mechanical protection, electrical insulation, thermal management, corrosion resistance, and structural integration while achieving extreme lightweighting.

Composite Material Battery Pack Enclosures, with their unique characteristics of high specific strength, extreme lightweight, natural insulation, flame retardancy and heat insulation, corrosion resistance and aging resistance, and highly integrated and designable features, precisely address the core pain points of the current new energy vehicle industry: with a lightweight effect far superior to metal, it effectively solves range anxiety and energy density bottlenecks, while with stronger impact resistance, compression resistance and heat insulation and flame retardancy, it builds a key safety barrier for battery thermal runaway protection. Its insulation and corrosion resistance

properties thoroughly solve the industry problems of metal shells being prone to short circuits, corrosion, and frequent maintenance. And through one-piece molding, it is perfectly adapted to next-generation integration technologies such as CTP/CTC, greatly simplifying assembly and improving space utilization and production efficiency. Driven by the rapid expansion of the global new energy vehicle industry, continuous policy support for lightweighting and safety upgrades, and automakers' competitive pursuit of range breakthroughs and cost optimization, Composite Material Battery Pack Enclosures are gradually penetrating from high-end models to all product categories. With its comprehensive advantages in performance, safety, efficiency, and life-cycle value, it has become the mainstream direction for battery pack structure upgrades. In the future, as material costs decrease and processes mature, its market application space will be fully opened up, not only deeply empowering the innovation of the new energy vehicle industry, but also expected to extend to fields such as energy storage and special equipment, growing into a key structural track supporting the high-quality development of the new energy ecosystem, with broad and certain growth potential.

The upstream components of Composite Material Battery Pack Enclosures fall into three main categories: resin matrix, reinforcing fibers, and functional additives. Typical suppliers include Huntsman, Dow, BASF, Evonik, Solvay, and Teijin. Downstream users are primarily battery manufacturers and battery pack manufacturers, with typical users including CATL and BYD.

The single-line production capacity of Composite Material Battery Pack Enclosures varies significantly depending on the molding process, product size and structural complexity, and the level of equipment automation. The industry's gross profit margin is typically in the range of 20%-30%.

This report is a detailed and comprehensive analysis for global Composite Material Battery Pack Enclosures 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 Battery Pack Enclosures market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices

(US\$/Unit), 2021-2032

Global Composite Material Battery Pack Enclosures market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Composite Material Battery Pack Enclosures market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Composite Material Battery Pack Enclosures market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Battery Pack Enclosures

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 Battery Pack Enclosures 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 SGL Carbon, Valeo, Kautex Textron, LION Smart GmbH, Shandong Shuangyi Technology, GRAD Group, Jiangsu Huaman Composite Material, Zhejiang Zhenshi New Material, AdvancedComposite(Suzhou)Technology, ZheJiang Sansen Mold Plastic Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Composite Material Battery Pack Enclosures 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 segment by Type

Thermoplastic Type

Thermosetting Type

Market segment by Processing

SMC

BMC

Other

Market segment by Reinforcing Materials

Glass Fiber

Carbon Fiber

Other

Market segment by Application

Covers

Trays

Major players covered

SGL Carbon

Valeo

Kautex Textron

LION Smart GmbH

Shandong Shuangyi Technology

GRAD Group

Jiangsu Huaman Composite Material

Zhejiang Zhenshi New Material

AdvancedComposite(Suzhou)Technology

ZheJiang Sanse Mold Plastic Technology

Shanhu Auto Decoration

San He Ji Chuang

Qinyang Yaxin Composite Materials

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Composite Material Battery Pack Enclosures product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Composite Material Battery Pack Enclosures, with price, sales quantity, revenue, and global market share of Composite Material Battery Pack Enclosures from 2021 to 2026.

Chapter 3, the Composite Material Battery Pack Enclosures competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Composite Material Battery Pack Enclosures 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 Battery Pack Enclosures 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 Battery Pack Enclosures.

Chapter 14 and 15, to describe Composite Material Battery Pack Enclosures sales channel, distributors, customers, research findings and conclusion.

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