

Global SMC EV Battery Housing 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 SMC EV Battery Housing market size was valued at US\$ 670 million in 2025 and is forecast to a readjusted size of US\$ 1142 million by 2032 with a CAGR of 8.0% during review period.

SMC electric vehicle battery casings are external protective structures for electric vehicle battery packs, made from SMC (Sheet Molding Compound) glass fiber reinforced composite materials. They protect battery modules from mechanical impact, vibration, thermal stress, and environmental factors, while also achieving lightweight and integrated structural design. These casings typically possess high strength, high heat resistance, fire retardancy, corrosion resistance, and water and dust resistance. They can integrate thermal management channels, wiring harnesses, and structural support functions, making them a crucial component for the safety, reliability, and performance optimization of electric vehicle batteries.

The SMC electric vehicle battery casing industry chain primarily includes three segments: upstream raw material supply, midstream component and finished product manufacturing, and downstream applications and services. The upstream segment provides core raw materials such as SMC composite materials, glass fibers, flame retardants, and reinforcing fillers; the midstream segment involves professional composite material molding factories or battery casing manufacturers responsible for mold design, compression molding, dimensional processing, surface treatment, and assembly. Some companies also provide thermal management systems and wiring harness integration; the downstream segment applies to electric passenger vehicles, commercial vehicles, energy storage systems, rail transit, and special electric vehicles, extending to vehicle manufacturer integration, battery pack assembly, and after-sales

maintenance and replacement services. The main technological barriers across the entire industry chain are concentrated in material formulation, molding processes, structural design, and thermal management integration capabilities.

In 2025, the average price of SMC electric vehicle battery casings is projected to be \$400 per unit, with sales of 1.6275 million units, a total production capacity of 2.325 million units, and a gross profit margin of approximately 32%.

This report is a detailed and comprehensive analysis for global SMC EV Battery Housing 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 SMC EV Battery Housing market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global SMC EV Battery Housing market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global SMC EV Battery Housing market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global SMC EV Battery Housing market shares of main players, shipments in revenue (\$ Million), sales quantity (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 SMC EV Battery Housing
- 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 SMC EV Battery Housing 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 Teijin Automotive Technologies, DaikyoNishikawa, Minth Group, Lorenz Kunststofftechnik GmbH, Lion Smart GmbH, Suase, TT-FRP, CORE Molding Technologies, Premix, Quantum Composites, etc.

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

Market Segmentation

SMC EV Battery Housing 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

Integrated Battery Housing

Modular Battery Housing

Market segment by Material Type

Pure SMC Composite Battery Casing

Hybrid Composite Battery Casing

Market segment by Functional Attributes

Protective Battery Casing

Thermal Management Battery Casing

Market segment by Application

Passenger Cars

Commercial Vehicles

Major players covered

Teijin Automotive Technologies

DaikyoNishikawa

Minth Group

Lorenz Kunststofftechnik GmbH

Lion Smart GmbH

Suase

TT-FRP

CORE Molding Technologies

Premix

Quantum Composites

Mitsubishi Chemical Group

Avient

Westlake Epoxy

Trinseo

Huayuan Advanced Materials

Changzhou Rule Composite Material

Chinyo Group

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 SMC EV Battery Housing product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of SMC EV Battery Housing, with price, sales quantity, revenue, and global market share of SMC EV Battery Housing from 2021 to 2026.

Chapter 3, the SMC EV Battery Housing competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the SMC EV Battery Housing 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 SMC EV Battery Housing 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 SMC EV Battery Housing.

Chapter 14 and 15, to describe SMC EV Battery Housing sales channel, distributors, customers, research findings and conclusion.

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