

Global SMC EV Battery Housing Market Growth 2026-2032

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Abstracts

The global SMC EV Battery Housing market size is predicted to grow from US\$ 637 million in 2025 to US\$ 1116 million in 2032; it is expected to grow at a CAGR of 8.5% from 2026 to 2032.

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%.

United States market for SMC EV Battery Housing is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for SMC EV Battery Housing is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for SMC EV Battery Housing is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key SMC EV Battery Housing players cover Teijin Automotive Technologies, DaikyoNishikawa, Minth Group, Lorenz Kunststofftechnik GmbH, Lion Smart GmbH, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "SMC EV Battery Housing Industry Forecast" looks at past sales and reviews total world SMC EV Battery Housing sales in 2025, providing a comprehensive analysis by region and market sector of projected SMC EV Battery Housing sales for 2026 through 2032. With SMC EV Battery Housing sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world SMC EV Battery Housing industry.

This Insight Report provides a comprehensive analysis of the global SMC EV Battery Housing landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on SMC EV Battery Housing portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global SMC EV Battery Housing market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SMC EV Battery Housing and breaks down the forecast

by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global SMC EV Battery Housing.

This report presents a comprehensive overview, market shares, and growth opportunities of SMC EV Battery Housing market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Integrated Battery Housing

Modular Battery Housing

Segmentation by Material Type:

Pure SMC Composite Battery Casing

Hybrid Composite Battery Casing

Segmentation by Functional Attributes:

Protective Battery Casing

Thermal Management Battery Casing

Segmentation by Application:

Passenger Cars

Commercial Vehicles

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global SMC EV Battery Housing market?

What factors are driving SMC EV Battery Housing market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do SMC EV Battery Housing market opportunities vary by end market size?

How does SMC EV Battery Housing break out by Type, by Application?

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