

# Global Lightweight EV Battery Enclosure Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Lightweight EV Battery Enclosure market size is expected to reach \$ 14783 million by 2032, rising at a market growth of 9.0% CAGR during the forecast period (2026-2032).

In 2024, global Lightweight EV Battery Enclosure reached approximately 11,457.2 K units, with an average global market price of around 685.2 USD/unit.

A Lightweight EV Battery Enclosure is a critical protective and structural component designed for electric vehicle power battery packs, characterized by its lightweight properties achieved through advanced lightweight materials (such as aluminum alloys, magnesium alloys, or composite materials like carbon fiber-reinforced plastics) and optimized structural design. Beyond encapsulating and safeguarding battery cells, battery management systems, and thermal management components from physical impacts, moisture, and environmental erosion, it aims to reduce the overall weight of the vehicle to enhance energy efficiency and extend driving range, while simultaneously meeting stringent requirements for structural rigidity, crash safety, and thermal management performance.

Demand for Lightweight EV Battery Enclosures is primarily driven by the global push for electric vehicle adoption, increasingly strict environmental and energy efficiency regulations, and consumer demand for longer driving ranges, as well as the technological trend toward integrated battery-pack designs (e.g., CTP/CTB) that require lighter yet more robust enclosure solutions. Business opportunities lie in advancing the R&D and application of high-performance composite materials to balance lightweight and cost-effectiveness, optimizing integrated structural designs to accommodate multi-functional requirements such as thermal management and crash safety, developing eco-friendly and recyclable material solutions to align with sustainability trends, and offering customized products tailored to different vehicle types (passenger cars, commercial vehicles) and regional regulatory standards.

This report studies the global Lightweight EV Battery Enclosure production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lightweight EV Battery Enclosure 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 Lightweight EV Battery Enclosure that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Lightweight EV Battery Enclosure total production and demand, 2021-2032, (K Units)

Global Lightweight EV Battery Enclosure total production value, 2021-2032, (USD Million)

Global Lightweight EV Battery Enclosure production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Lightweight EV Battery Enclosure consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Lightweight EV Battery Enclosure domestic production, consumption, key domestic manufacturers and share

Global Lightweight EV Battery Enclosure production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Lightweight EV Battery Enclosure production by Material, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Lightweight EV Battery Enclosure production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Lightweight EV Battery Enclosure 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 SGL Carbon, D2H Group, Novelis, TRB, Katcon, Far, Kautex, LION Smart, Constellium, Nematik, 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 Lightweight EV Battery Enclosure market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Material, 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 Lightweight EV Battery Enclosure Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Lightweight EV Battery Enclosure Market, Segmentation by Material:

Aluminum Alloy

Magnesium Alloy

Carbon Fiber Composite

SMC Composite

Others

## Global Lightweight EV Battery Enclosure Market, Segmentation by Structural Integration Type:

CTM (Cell To Module) EV Battery Enclosure

CTP (Cell To Pack) EV Battery Enclosure

CTB (Cell To Body) EV Battery Enclosure

CTC (Cell To Chassis) EV Battery Enclosure

Global Lightweight EV Battery Enclosure Market, Segmentation by Manufacturing Process:

Stamping-Assembled EV Battery Enclosure

Die-Cast Integrated EV Battery Enclosure

Composite Injection-Molded EV Battery Enclosure

One-Piece Formed EV Battery Enclosure

Global Lightweight EV Battery Enclosure Market, Segmentation by Application:

Passenger Car

Commercial Vehicle

**Companies Profiled:**

SGL Carbon

D2H Group

Novelis

TRB

Katcon

Far

Kautex

LION Smart

Constellium

Nemak

Thyssenkrupp

Teijin Automotive Technologies

Gestamp

GF Casting Solutions

Magna

**Key Questions Answered:**

1. How big is the global Lightweight EV Battery Enclosure market?
2. What is the demand of the global Lightweight EV Battery Enclosure market?
3. What is the year over year growth of the global Lightweight EV Battery Enclosure market?
4. What is the production and production value of the global Lightweight EV Battery Enclosure market?
5. Who are the key producers in the global Lightweight EV Battery Enclosure market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Lightweight EV Battery Enclosure Introduction
- 1.2 World Lightweight EV Battery Enclosure Supply & Forecast
  - 1.2.1 World Lightweight EV Battery Enclosure Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Lightweight EV Battery Enclosure Production (2021-2032)
  - 1.2.3 World Lightweight EV Battery Enclosure Pricing Trends (2021-2032)
- 1.3 World Lightweight EV Battery Enclosure Production by Region (Based on Production Site)
  - 1.3.1 World Lightweight EV Battery Enclosure Production Value by Region (2021-2032)
  - 1.3.2 World Lightweight EV Battery Enclosure Production by Region (2021-2032)
  - 1.3.3 World Lightweight EV Battery Enclosure Average Price by Region (2021-2032)
  - 1.3.4 North America Lightweight EV Battery Enclosure Production (2021-2032)
  - 1.3.5 Europe Lightweight EV Battery Enclosure Production (2021-2032)
  - 1.3.6 China Lightweight EV Battery Enclosure Production (2021-2032)
  - 1.3.7 Japan Lightweight EV Battery Enclosure Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Lightweight EV Battery Enclosure Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Lightweight EV Battery Enclosure Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Lightweight EV Battery Enclosure Demand (2021-2032)
- 2.2 World Lightweight EV Battery Enclosure Consumption by Region
  - 2.2.1 World Lightweight EV Battery Enclosure Consumption by Region (2021-2026)
  - 2.2.2 World Lightweight EV Battery Enclosure Consumption Forecast by Region (2027-2032)
- 2.3 United States Lightweight EV Battery Enclosure Consumption (2021-2032)
- 2.4 China Lightweight EV Battery Enclosure Consumption (2021-2032)
- 2.5 Europe Lightweight EV Battery Enclosure Consumption (2021-2032)
- 2.6 Japan Lightweight EV Battery Enclosure Consumption (2021-2032)
- 2.7 South Korea Lightweight EV Battery Enclosure Consumption (2021-2032)
- 2.8 ASEAN Lightweight EV Battery Enclosure Consumption (2021-2032)
- 2.9 India Lightweight EV Battery Enclosure Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World Lightweight EV Battery Enclosure Production Value by Manufacturer (2021-2026)

3.2 World Lightweight EV Battery Enclosure Production by Manufacturer (2021-2026)

3.3 World Lightweight EV Battery Enclosure Average Price by Manufacturer (2021-2026)

3.4 Lightweight EV Battery Enclosure Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Lightweight EV Battery Enclosure Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Lightweight EV Battery Enclosure in 2025

3.5.3 Global Concentration Ratios (CR8) for Lightweight EV Battery Enclosure in 2025

3.6 Lightweight EV Battery Enclosure Market: Overall Company Footprint Analysis

3.6.1 Lightweight EV Battery Enclosure Market: Region Footprint

3.6.2 Lightweight EV Battery Enclosure Market: Company Product Type Footprint

3.6.3 Lightweight EV Battery Enclosure Market: Company Product Application

Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

4.1 United States VS China: Lightweight EV Battery Enclosure Production Value Comparison

4.1.1 United States VS China: Lightweight EV Battery Enclosure Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Lightweight EV Battery Enclosure Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Lightweight EV Battery Enclosure Production Comparison

4.2.1 United States VS China: Lightweight EV Battery Enclosure Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Lightweight EV Battery Enclosure Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Lightweight EV Battery Enclosure Consumption Comparison

4.3.1 United States VS China: Lightweight EV Battery Enclosure Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Lightweight EV Battery Enclosure Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Lightweight EV Battery Enclosure Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Lightweight EV Battery Enclosure Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Lightweight EV Battery Enclosure Production Value (2021-2026)

4.4.3 United States Based Manufacturers Lightweight EV Battery Enclosure Production (2021-2026)

4.5 China Based Lightweight EV Battery Enclosure Manufacturers and Market Share

4.5.1 China Based Lightweight EV Battery Enclosure Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Lightweight EV Battery Enclosure Production Value (2021-2026)

4.5.3 China Based Manufacturers Lightweight EV Battery Enclosure Production (2021-2026)

4.6 Rest of World Based Lightweight EV Battery Enclosure Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Lightweight EV Battery Enclosure Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Lightweight EV Battery Enclosure Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Lightweight EV Battery Enclosure Production (2021-2026)

## **5 MARKET ANALYSIS BY MATERIAL**

5.1 World Lightweight EV Battery Enclosure Market Size Overview by Material: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Material

5.2.1 Aluminum Alloy

5.2.2 Magnesium Alloy

5.2.3 Carbon Fiber Composite

5.2.4 SMC Composite

5.2.5 Others

5.3 Market Segment by Material

- 5.3.1 World Lightweight EV Battery Enclosure Production by Material (2021-2032)
- 5.3.2 World Lightweight EV Battery Enclosure Production Value by Material (2021-2032)
- 5.3.3 World Lightweight EV Battery Enclosure Average Price by Material (2021-2032)

## **6 MARKET ANALYSIS BY STRUCTURAL INTEGRATION TYPE**

- 6.1 World Lightweight EV Battery Enclosure Market Size Overview by Structural Integration Type: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Structural Integration Type
  - 6.2.1 CTM (Cell To Module) EV Battery Enclosure
  - 6.2.2 CTP (Cell To Pack) EV Battery Enclosure
  - 6.2.3 CTB (Cell To Body) EV Battery Enclosure
  - 6.2.4 CTC (Cell To Chassis) EV Battery Enclosure
- 6.3 Market Segment by Structural Integration Type
  - 6.3.1 World Lightweight EV Battery Enclosure Production by Structural Integration Type (2021-2032)
  - 6.3.2 World Lightweight EV Battery Enclosure Production Value by Structural Integration Type (2021-2032)
  - 6.3.3 World Lightweight EV Battery Enclosure Average Price by Structural Integration Type (2021-2032)

## **7 MARKET ANALYSIS BY MANUFACTURING PROCESS**

- 7.1 World Lightweight EV Battery Enclosure Market Size Overview by Manufacturing Process: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Manufacturing Process
  - 7.2.1 Stamping-Assembled EV Battery Enclosure
  - 7.2.2 Die-Cast Integrated EV Battery Enclosure
  - 7.2.3 Composite Injection-Molded EV Battery Enclosure
  - 7.2.4 One-Piece Formed EV Battery Enclosure
- 7.3 Market Segment by Manufacturing Process
  - 7.3.1 World Lightweight EV Battery Enclosure Production by Manufacturing Process (2021-2032)
  - 7.3.2 World Lightweight EV Battery Enclosure Production Value by Manufacturing Process (2021-2032)
  - 7.3.3 World Lightweight EV Battery Enclosure Average Price by Manufacturing Process (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Lightweight EV Battery Enclosure Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Passenger Car

8.2.2 Commercial Vehicle

8.3 Market Segment by Application

8.3.1 World Lightweight EV Battery Enclosure Production by Application (2021-2032)

8.3.2 World Lightweight EV Battery Enclosure Production Value by Application (2021-2032)

8.3.3 World Lightweight EV Battery Enclosure Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 SGL Carbon

9.1.1 SGL Carbon Details

9.1.2 SGL Carbon Major Business

9.1.3 SGL Carbon Lightweight EV Battery Enclosure Product and Services

9.1.4 SGL Carbon Lightweight EV Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 SGL Carbon Recent Developments/Updates

9.1.6 SGL Carbon Competitive Strengths & Weaknesses

9.2 D2H Group

9.2.1 D2H Group Details

9.2.2 D2H Group Major Business

9.2.3 D2H Group Lightweight EV Battery Enclosure Product and Services

9.2.4 D2H Group Lightweight EV Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 D2H Group Recent Developments/Updates

9.2.6 D2H Group Competitive Strengths & Weaknesses

9.3 Novelis

9.3.1 Novelis Details

9.3.2 Novelis Major Business

9.3.3 Novelis Lightweight EV Battery Enclosure Product and Services

9.3.4 Novelis Lightweight EV Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Novelis Recent Developments/Updates

### 9.3.6 Novelis Competitive Strengths & Weaknesses

## 9.4 TRB

### 9.4.1 TRB Details

### 9.4.2 TRB Major Business

### 9.4.3 TRB Lightweight EV Battery Enclosure Product and Services

### 9.4.4 TRB Lightweight EV Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.4.5 TRB Recent Developments/Updates

### 9.4.6 TRB Competitive Strengths & Weaknesses

## 9.5 Katcon

### 9.5.1 Katcon Details

### 9.5.2 Katcon Major Business

### 9.5.3 Katcon Lightweight EV Battery Enclosure Product and Services

### 9.5.4 Katcon Lightweight EV Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.5.5 Katcon Recent Developments/Updates

### 9.5.6 Katcon Competitive Strengths & Weaknesses

## 9.6 Far

### 9.6.1 Far Details

### 9.6.2 Far Major Business

### 9.6.3 Far Lightweight EV Battery Enclosure Product and Services

### 9.6.4 Far Lightweight EV Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.6.5 Far Recent Developments/Updates

### 9.6.6 Far Competitive Strengths & Weaknesses

## 9.7 Kautex

### 9.7.1 Kautex Details

### 9.7.2 Kautex Major Business

### 9.7.3 Kautex Lightweight EV Battery Enclosure Product and Services

### 9.7.4 Kautex Lightweight EV Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.7.5 Kautex Recent Developments/Updates

### 9.7.6 Kautex Competitive Strengths & Weaknesses

## 9.8 LION Smart

### 9.8.1 LION Smart Details

### 9.8.2 LION Smart Major Business

### 9.8.3 LION Smart Lightweight EV Battery Enclosure Product and Services

### 9.8.4 LION Smart Lightweight EV Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.8.5 LION Smart Recent Developments/Updates
- 9.8.6 LION Smart Competitive Strengths & Weaknesses
- 9.9 Constellium
  - 9.9.1 Constellium Details
  - 9.9.2 Constellium Major Business
  - 9.9.3 Constellium Lightweight EV Battery Enclosure Product and Services
  - 9.9.4 Constellium Lightweight EV Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Constellium Recent Developments/Updates
  - 9.9.6 Constellium Competitive Strengths & Weaknesses
- 9.10 Nemak
  - 9.10.1 Nemak Details
  - 9.10.2 Nemak Major Business
  - 9.10.3 Nemak Lightweight EV Battery Enclosure Product and Services
  - 9.10.4 Nemak Lightweight EV Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Nemak Recent Developments/Updates
  - 9.10.6 Nemak Competitive Strengths & Weaknesses
- 9.11 Thyssenkrupp
  - 9.11.1 Thyssenkrupp Details
  - 9.11.2 Thyssenkrupp Major Business
  - 9.11.3 Thyssenkrupp Lightweight EV Battery Enclosure Product and Services
  - 9.11.4 Thyssenkrupp Lightweight EV Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Thyssenkrupp Recent Developments/Updates
  - 9.11.6 Thyssenkrupp Competitive Strengths & Weaknesses
- 9.12 Teijin Automotive Technologies
  - 9.12.1 Teijin Automotive Technologies Details
  - 9.12.2 Teijin Automotive Technologies Major Business
  - 9.12.3 Teijin Automotive Technologies Lightweight EV Battery Enclosure Product and Services
  - 9.12.4 Teijin Automotive Technologies Lightweight EV Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 Teijin Automotive Technologies Recent Developments/Updates
  - 9.12.6 Teijin Automotive Technologies Competitive Strengths & Weaknesses
- 9.13 Gestamp
  - 9.13.1 Gestamp Details
  - 9.13.2 Gestamp Major Business
  - 9.13.3 Gestamp Lightweight EV Battery Enclosure Product and Services

9.13.4 Gestamp Lightweight EV Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Gestamp Recent Developments/Updates

9.13.6 Gestamp Competitive Strengths & Weaknesses

9.14 GF Casting Solutions

9.14.1 GF Casting Solutions Details

9.14.2 GF Casting Solutions Major Business

9.14.3 GF Casting Solutions Lightweight EV Battery Enclosure Product and Services

9.14.4 GF Casting Solutions Lightweight EV Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 GF Casting Solutions Recent Developments/Updates

9.14.6 GF Casting Solutions Competitive Strengths & Weaknesses

9.15 Magna

9.15.1 Magna Details

9.15.2 Magna Major Business

9.15.3 Magna Lightweight EV Battery Enclosure Product and Services

9.15.4 Magna Lightweight EV Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Magna Recent Developments/Updates

9.15.6 Magna Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

10.1 Lightweight EV Battery Enclosure Industry Chain

10.2 Lightweight EV Battery Enclosure Upstream Analysis

10.2.1 Lightweight EV Battery Enclosure Core Raw Materials

10.2.2 Main Manufacturers of Lightweight EV Battery Enclosure Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Lightweight EV Battery Enclosure Production Mode

10.6 Lightweight EV Battery Enclosure Procurement Model

10.7 Lightweight EV Battery Enclosure Industry Sales Model and Sales Channels

10.7.1 Lightweight EV Battery Enclosure Sales Model

10.7.2 Lightweight EV Battery Enclosure Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Lightweight EV Battery Enclosure Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Lightweight EV Battery Enclosure Production Value by Region (2021-2026) & (USD Million)

Table 3. World Lightweight EV Battery Enclosure Production Value by Region (2027-2032) & (USD Million)

Table 4. World Lightweight EV Battery Enclosure Production Value Market Share by Region (2021-2026)

Table 5. World Lightweight EV Battery Enclosure Production Value Market Share by Region (2027-2032)

Table 6. World Lightweight EV Battery Enclosure Production by Region (2021-2026) & (K Units)

Table 7. World Lightweight EV Battery Enclosure Production by Region (2027-2032) & (K Units)

Table 8. World Lightweight EV Battery Enclosure Production Market Share by Region (2021-2026)

Table 9. World Lightweight EV Battery Enclosure Production Market Share by Region (2027-2032)

Table 10. World Lightweight EV Battery Enclosure Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Lightweight EV Battery Enclosure Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Lightweight EV Battery Enclosure Major Market Trends

Table 13. World Lightweight EV Battery Enclosure Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Lightweight EV Battery Enclosure Consumption by Region (2021-2026) & (K Units)

Table 15. World Lightweight EV Battery Enclosure Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Lightweight EV Battery Enclosure Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Lightweight EV Battery Enclosure Producers in 2025

Table 18. World Lightweight EV Battery Enclosure Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Lightweight EV Battery Enclosure Producers in 2025

Table 20. World Lightweight EV Battery Enclosure Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Lightweight EV Battery Enclosure Company Evaluation Quadrant

Table 22. World Lightweight EV Battery Enclosure Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Lightweight EV Battery Enclosure Production Site of Key Manufacturer

Table 24. Lightweight EV Battery Enclosure Market: Company Product Type Footprint

Table 25. Lightweight EV Battery Enclosure Market: Company Product Application Footprint

Table 26. Lightweight EV Battery Enclosure Competitive Factors

Table 27. Lightweight EV Battery Enclosure New Entrant and Capacity Expansion Plans

Table 28. Lightweight EV Battery Enclosure Mergers & Acquisitions Activity

Table 29. United States VS China Lightweight EV Battery Enclosure Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Lightweight EV Battery Enclosure Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Lightweight EV Battery Enclosure Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Lightweight EV Battery Enclosure Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Lightweight EV Battery Enclosure Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Lightweight EV Battery Enclosure Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Lightweight EV Battery Enclosure Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Lightweight EV Battery Enclosure Production Market Share (2021-2026)

Table 37. China Based Lightweight EV Battery Enclosure Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Lightweight EV Battery Enclosure Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Lightweight EV Battery Enclosure Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Lightweight EV Battery Enclosure Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Lightweight EV Battery Enclosure Production Market Share (2021-2026)

Table 42. Rest of World Based Lightweight EV Battery Enclosure Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Lightweight EV Battery Enclosure Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Lightweight EV Battery Enclosure Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Lightweight EV Battery Enclosure Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Lightweight EV Battery Enclosure Production Market Share (2021-2026)

Table 47. World Lightweight EV Battery Enclosure Production Value by Material, (USD Million), 2021 & 2025 & 2032

Table 48. World Lightweight EV Battery Enclosure Production by Material (2021-2026) & (K Units)

Table 49. World Lightweight EV Battery Enclosure Production by Material (2027-2032) & (K Units)

Table 50. World Lightweight EV Battery Enclosure Production Value by Material (2021-2026) & (USD Million)

Table 51. World Lightweight EV Battery Enclosure Production Value by Material (2027-2032) & (USD Million)

Table 52. World Lightweight EV Battery Enclosure Average Price by Material (2021-2026) & (US\$/Unit)

Table 53. World Lightweight EV Battery Enclosure Average Price by Material (2027-2032) & (US\$/Unit)

Table 54. World Lightweight EV Battery Enclosure Production Value by Structural Integration Type, (USD Million), 2021 & 2025 & 2032

Table 55. World Lightweight EV Battery Enclosure Production by Structural Integration Type (2021-2026) & (K Units)

Table 56. World Lightweight EV Battery Enclosure Production by Structural Integration Type (2027-2032) & (K Units)

Table 57. World Lightweight EV Battery Enclosure Production Value by Structural Integration Type (2021-2026) & (USD Million)

Table 58. World Lightweight EV Battery Enclosure Production Value by Structural Integration Type (2027-2032) & (USD Million)

Table 59. World Lightweight EV Battery Enclosure Average Price by Structural Integration Type (2021-2026) & (US\$/Unit)

Table 60. World Lightweight EV Battery Enclosure Average Price by Structural

Integration Type (2027-2032) & (US\$/Unit)

Table 61. World Lightweight EV Battery Enclosure Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Table 62. World Lightweight EV Battery Enclosure Production by Manufacturing Process (2021-2026) & (K Units)

Table 63. World Lightweight EV Battery Enclosure Production by Manufacturing Process (2027-2032) & (K Units)

Table 64. World Lightweight EV Battery Enclosure Production Value by Manufacturing Process (2021-2026) & (USD Million)

Table 65. World Lightweight EV Battery Enclosure Production Value by Manufacturing Process (2027-2032) & (USD Million)

Table 66. World Lightweight EV Battery Enclosure Average Price by Manufacturing Process (2021-2026) & (US\$/Unit)

Table 67. World Lightweight EV Battery Enclosure Average Price by Manufacturing Process (2027-2032) & (US\$/Unit)

Table 68. World Lightweight EV Battery Enclosure Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Lightweight EV Battery Enclosure Production by Application (2021-2026) & (K Units)

Table 70. World Lightweight EV Battery Enclosure Production by Application (2027-2032) & (K Units)

Table 71. World Lightweight EV Battery Enclosure Production Value by Application (2021-2026) & (USD Million)

Table 72. World Lightweight EV Battery Enclosure Production Value by Application (2027-2032) & (USD Million)

Table 73. World Lightweight EV Battery Enclosure Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Lightweight EV Battery Enclosure Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. SGL Carbon Basic Information, Manufacturing Base and Competitors

Table 76. SGL Carbon Major Business

Table 77. SGL Carbon Lightweight EV Battery Enclosure Product and Services

Table 78. SGL Carbon Lightweight EV Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. SGL Carbon Recent Developments/Updates

Table 80. SGL Carbon Competitive Strengths & Weaknesses

Table 81. D2H Group Basic Information, Manufacturing Base and Competitors

Table 82. D2H Group Major Business

- Table 83. D2H Group Lightweight EV Battery Enclosure Product and Services
- Table 84. D2H Group Lightweight EV Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. D2H Group Recent Developments/Updates
- Table 86. D2H Group Competitive Strengths & Weaknesses
- Table 87. Novelis Basic Information, Manufacturing Base and Competitors
- Table 88. Novelis Major Business
- Table 89. Novelis Lightweight EV Battery Enclosure Product and Services
- Table 90. Novelis Lightweight EV Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Novelis Recent Developments/Updates
- Table 92. Novelis Competitive Strengths & Weaknesses
- Table 93. TRB Basic Information, Manufacturing Base and Competitors
- Table 94. TRB Major Business
- Table 95. TRB Lightweight EV Battery Enclosure Product and Services
- Table 96. TRB Lightweight EV Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. TRB Recent Developments/Updates
- Table 98. TRB Competitive Strengths & Weaknesses
- Table 99. Katcon Basic Information, Manufacturing Base and Competitors
- Table 100. Katcon Major Business
- Table 101. Katcon Lightweight EV Battery Enclosure Product and Services
- Table 102. Katcon Lightweight EV Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Katcon Recent Developments/Updates
- Table 104. Katcon Competitive Strengths & Weaknesses
- Table 105. Far Basic Information, Manufacturing Base and Competitors
- Table 106. Far Major Business
- Table 107. Far Lightweight EV Battery Enclosure Product and Services
- Table 108. Far Lightweight EV Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Far Recent Developments/Updates
- Table 110. Far Competitive Strengths & Weaknesses
- Table 111. Kautex Basic Information, Manufacturing Base and Competitors
- Table 112. Kautex Major Business
- Table 113. Kautex Lightweight EV Battery Enclosure Product and Services

Table 114. Kautex Lightweight EV Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Kautex Recent Developments/Updates

Table 116. Kautex Competitive Strengths & Weaknesses

Table 117. LION Smart Basic Information, Manufacturing Base and Competitors

Table 118. LION Smart Major Business

Table 119. LION Smart Lightweight EV Battery Enclosure Product and Services

Table 120. LION Smart Lightweight EV Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. LION Smart Recent Developments/Updates

Table 122. LION Smart Competitive Strengths & Weaknesses

Table 123. Constellium Basic Information, Manufacturing Base and Competitors

Table 124. Constellium Major Business

Table 125. Constellium Lightweight EV Battery Enclosure Product and Services

Table 126. Constellium Lightweight EV Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Constellium Recent Developments/Updates

Table 128. Constellium Competitive Strengths & Weaknesses

Table 129. Nematik Basic Information, Manufacturing Base and Competitors

Table 130. Nematik Major Business

Table 131. Nematik Lightweight EV Battery Enclosure Product and Services

Table 132. Nematik Lightweight EV Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Nematik Recent Developments/Updates

Table 134. Nematik Competitive Strengths & Weaknesses

Table 135. Thyssenkrupp Basic Information, Manufacturing Base and Competitors

Table 136. Thyssenkrupp Major Business

Table 137. Thyssenkrupp Lightweight EV Battery Enclosure Product and Services

Table 138. Thyssenkrupp Lightweight EV Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Thyssenkrupp Recent Developments/Updates

Table 140. Thyssenkrupp Competitive Strengths & Weaknesses

Table 141. Teijin Automotive Technologies Basic Information, Manufacturing Base and Competitors

Table 142. Teijin Automotive Technologies Major Business

Table 143. Teijin Automotive Technologies Lightweight EV Battery Enclosure Product and Services

Table 144. Teijin Automotive Technologies Lightweight EV Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Teijin Automotive Technologies Recent Developments/Updates

Table 146. Teijin Automotive Technologies Competitive Strengths & Weaknesses

Table 147. Gestamp Basic Information, Manufacturing Base and Competitors

Table 148. Gestamp Major Business

Table 149. Gestamp Lightweight EV Battery Enclosure Product and Services

Table 150. Gestamp Lightweight EV Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Gestamp Recent Developments/Updates

Table 152. Gestamp Competitive Strengths & Weaknesses

Table 153. GF Casting Solutions Basic Information, Manufacturing Base and Competitors

Table 154. GF Casting Solutions Major Business

Table 155. GF Casting Solutions Lightweight EV Battery Enclosure Product and Services

Table 156. GF Casting Solutions Lightweight EV Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. GF Casting Solutions Recent Developments/Updates

Table 158. GF Casting Solutions Competitive Strengths & Weaknesses

Table 159. Magna Basic Information, Manufacturing Base and Competitors

Table 160. Magna Major Business

Table 161. Magna Lightweight EV Battery Enclosure Product and Services

Table 162. Magna Lightweight EV Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Magna Recent Developments/Updates

Table 164. Magna Competitive Strengths & Weaknesses

Table 165. Global Key Players of Lightweight EV Battery Enclosure Upstream (Raw Materials)

Table 166. Global Lightweight EV Battery Enclosure Typical Customers

Table 167. Lightweight EV Battery Enclosure Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Lightweight EV Battery Enclosure Picture

Figure 2. World Lightweight EV Battery Enclosure Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Lightweight EV Battery Enclosure Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Lightweight EV Battery Enclosure Production (2021-2032) & (K Units)

Figure 5. World Lightweight EV Battery Enclosure Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Lightweight EV Battery Enclosure Production Value Market Share by Region (2021-2032)

Figure 7. World Lightweight EV Battery Enclosure Production Market Share by Region (2021-2032)

Figure 8. North America Lightweight EV Battery Enclosure Production (2021-2032) & (K Units)

Figure 9. Europe Lightweight EV Battery Enclosure Production (2021-2032) & (K Units)

Figure 10. China Lightweight EV Battery Enclosure Production (2021-2032) & (K Units)

Figure 11. Japan Lightweight EV Battery Enclosure Production (2021-2032) & (K Units)

Figure 12. Lightweight EV Battery Enclosure Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Lightweight EV Battery Enclosure Consumption (2021-2032) & (K Units)

Figure 15. World Lightweight EV Battery Enclosure Consumption Market Share by Region (2021-2032)

Figure 16. United States Lightweight EV Battery Enclosure Consumption (2021-2032) & (K Units)

Figure 17. China Lightweight EV Battery Enclosure Consumption (2021-2032) & (K Units)

Figure 18. Europe Lightweight EV Battery Enclosure Consumption (2021-2032) & (K Units)

Figure 19. Japan Lightweight EV Battery Enclosure Consumption (2021-2032) & (K Units)

Figure 20. South Korea Lightweight EV Battery Enclosure Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Lightweight EV Battery Enclosure Consumption (2021-2032) & (K Units)

Figure 22. India Lightweight EV Battery Enclosure Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Lightweight EV Battery Enclosure by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Lightweight EV Battery Enclosure Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Lightweight EV Battery Enclosure Markets in 2025

Figure 26. United States VS China: Lightweight EV Battery Enclosure Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Lightweight EV Battery Enclosure Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Lightweight EV Battery Enclosure Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Lightweight EV Battery Enclosure Production Market Share 2025

Figure 30. China Based Manufacturers Lightweight EV Battery Enclosure Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Lightweight EV Battery Enclosure Production Market Share 2025

Figure 32. World Lightweight EV Battery Enclosure Production Value by Material, (USD Million), 2021 & 2025 & 2032

Figure 33. World Lightweight EV Battery Enclosure Production Value Market Share by Material in 2025

Figure 34. Aluminum Alloy

Figure 35. Magnesium Alloy

Figure 36. Carbon Fiber Composite

Figure 37. SMC Composite

Figure 38. Others

Figure 39. World Lightweight EV Battery Enclosure Production Market Share by Material (2021-2032)

Figure 40. World Lightweight EV Battery Enclosure Production Value Market Share by Material (2021-2032)

Figure 41. World Lightweight EV Battery Enclosure Average Price by Material (2021-2032) & (US\$/Unit)

Figure 42. World Lightweight EV Battery Enclosure Production Value by Structural Integration Type, (USD Million), 2021 & 2025 & 2032

Figure 43. World Lightweight EV Battery Enclosure Production Value Market Share by Structural Integration Type in 2025

Figure 44. CTM (Cell To Module) EV Battery Enclosure

Figure 45. CTP (Cell To Pack) EV Battery Enclosure

Figure 46. CTB (Cell To Body) EV Battery Enclosure

Figure 47. CTC (Cell To Chassis) EV Battery Enclosure

Figure 48. World Lightweight EV Battery Enclosure Production Market Share by Structural Integration Type (2021-2032)

Figure 49. World Lightweight EV Battery Enclosure Production Value Market Share by Structural Integration Type (2021-2032)

Figure 50. World Lightweight EV Battery Enclosure Average Price by Structural Integration Type (2021-2032) & (US\$/Unit)

Figure 51. World Lightweight EV Battery Enclosure Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Figure 52. World Lightweight EV Battery Enclosure Production Value Market Share by Manufacturing Process in 2025

Figure 53. Stamping-Assembled EV Battery Enclosure

Figure 54. Die-Cast Integrated EV Battery Enclosure

Figure 55. Composite Injection-Molded EV Battery Enclosure

Figure 56. One-Piece Formed EV Battery Enclosure

Figure 57. World Lightweight EV Battery Enclosure Production Market Share by Manufacturing Process (2021-2032)

Figure 58. World Lightweight EV Battery Enclosure Production Value Market Share by Manufacturing Process (2021-2032)

Figure 59. World Lightweight EV Battery Enclosure Average Price by Manufacturing Process (2021-2032) & (US\$/Unit)

Figure 60. World Lightweight EV Battery Enclosure Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 61. World Lightweight EV Battery Enclosure Production Value Market Share by Application in 2025

Figure 62. Passenger Car

Figure 63. Commercial Vehicle

Figure 64. World Lightweight EV Battery Enclosure Production Market Share by Application (2021-2032)

Figure 65. World Lightweight EV Battery Enclosure Production Value Market Share by Application (2021-2032)

Figure 66. World Lightweight EV Battery Enclosure Average Price by Application (2021-2032) & (US\$/Unit)

Figure 67. Lightweight EV Battery Enclosure Industry Chain

Figure 68. Lightweight EV Battery Enclosure Procurement Model

Figure 69. Lightweight EV Battery Enclosure Sales Model

Figure 70. Lightweight EV Battery Enclosure Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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