

# Global Semi-solid Battery for Automotive 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 Semi-solid Battery for Automotive market size was valued at US\$ 2433 million in 2025 and is forecast to a readjusted size of US\$ 36130 million by 2032 with a CAGR of 47.6% during review period.

Solid-state batteries refer to lithium batteries that use solid electrolytes instead of electrolytes. According to the amount of solid electrolyte, it can be subdivided into two categories: semi-solid batteries and all-solid batteries: 1) Semi-solid battery: The electrolyte is in the form of a solid-liquid mixture, and the mass proportion of liquid (electrolyte) in the battery is about 5-10%. Essentially a compromise between liquid lithium batteries and all-solid-state batteries. 2) All-solid-state battery: completely uses solid electrolyte instead of electrolyte. Generally, '10% of the liquid mass in the battery' is used as the dividing line between semi-solid batteries and liquid batteries.

A semi-solid battery is one in which one electrode does not contain a liquid electrolyte and the other electrode contains a liquid electrolyte. Or the mass or volume of the solid electrolyte in the monomer accounts for half of the total mass or volume of the electrolyte in the monomer. Compared with existing lithium-ion batteries, semi-solid batteries are smaller, more stable, safer, can achieve higher energy density, and are much cheaper than lithium-ion batteries.

It is generally believed that the upper limit of energy density of liquid lithium-ion batteries is about 300Wh/kg-400Wh/kg. The theoretical energy density of solid-state batteries is as high as 700Wh/kg, which is almost twice the data of the most advanced lithium batteries. Semi-solid batteries use solid electrolytes, which do not affect energy density.

Low temperatures can affect battery performance. This effectively solves the problem of winter range discounts for pure electric vehicles. Semi-solid batteries or solid-state batteries have no liquid matter, or have much less liquid matter. Therefore, when damage or puncture occurs, spontaneous combustion or explosion will be effectively avoided.

At a critical juncture in power battery technology undergoing profound transformation, semi-solid-state batteries are no longer a futuristic technological concept; they are now a real force in automotive manufacturing. Since 2024, models such as the NIO ET7 and Zhiji L6 have been the first to be equipped with 150kWh semi-solid-state battery packs, achieving a range exceeding 1,000 kilometers and significantly improved fast-charging performance. This marks the official entry of semi-solid-state batteries into the commercial application verification stage. Compared to traditional lithium-ion batteries, semi-solid-state technology not only offers higher energy density and enhanced safety, but also offers excellent cost control and process compatibility, making it a key tool for automakers to seize the commanding heights of the new round of electrification competition.

Today, major global electric vehicle companies are accelerating their deployment of semi-solid-state battery technology. Chinese companies such as Beijing WeLion and Ganfeng Lithium have already achieved mass production and continue to advance the technology. Driven by their technological advantages in balancing energy density, safety, and manufacturing costs, semi-solid-state batteries are rapidly transitioning from high-end vehicle verification to large-scale application. Over the next three years, the penetration of this technology in the electric vehicle battery market is expected to continue to increase.

This report is a detailed and comprehensive analysis for global Semi-solid Battery for Automotive 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 Semi-solid Battery for Automotive market size and forecasts, in consumption value (\$ Million), sales quantity (MWh), and average selling prices (USD/KWh),

2021-2032

Global Semi-solid Battery for Automotive market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MWh), and average selling prices (USD/KWh), 2021-2032

Global Semi-solid Battery for Automotive market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MWh), and average selling prices (USD/KWh), 2021-2032

Global Semi-solid Battery for Automotive market shares of main players, shipments in revenue (\$ Million), sales quantity (MWh), and ASP (USD/KWh), 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 Semi-solid Battery for Automotive
- 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 Semi-solid Battery for Automotive 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 24M, Beijing WeLion, Ganfeng Lithium Industry, Hefei Gotion High-tech, Farasis Energy, SES AI, StoreDot, EVE Energy, QingTao (KunShan) Energy, Chongqing Changan Automobile, etc.

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

### **Market Segmentation**

Semi-solid Battery for Automotive 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

Oxide Semi-solid Battery

Polymer Semi-solid Battery

#### Market segment by Application

Passenger Vehicle

Commercial Vehicle

#### Major players covered

24M

Beijing WeLion

Ganfeng Lithium Industry

Hefei Gotion High-tech

Farasis Energy

SES AI

StoreDot

EVE Energy

QingTao (KunShan) Energy

Chongqing Changan Automobile

LGES

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 Semi-solid Battery for Automotive product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Semi-solid Battery for Automotive, with price, sales quantity, revenue, and global market share of Semi-solid Battery for Automotive from 2021 to 2026.

Chapter 3, the Semi-solid Battery for Automotive competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Semi-solid Battery for Automotive 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 Semi-solid Battery for Automotive 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 Semi-solid Battery for Automotive.

Chapter 14 and 15, to describe Semi-solid Battery for Automotive sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Semi-solid Battery for Automotive Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Oxide Semi-solid Battery

1.3.3 Polymer Semi-solid Battery

1.4 Market Analysis by Application

1.4.1 Overview: Global Semi-solid Battery for Automotive Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.4.2 Passenger Vehicle

1.4.3 Commercial Vehicle

1.5 Global Semi-solid Battery for Automotive Market Size & Forecast

1.5.1 Global Semi-solid Battery for Automotive Consumption Value (2021 & 2025 & 2032)

1.5.2 Global Semi-solid Battery for Automotive Sales Quantity (2021-2032)

1.5.3 Global Semi-solid Battery for Automotive Average Price (2021-2032)

### 2 MANUFACTURERS PROFILES

2.1 24M

2.1.1 24M Details

2.1.2 24M Major Business

2.1.3 24M Semi-solid Battery for Automotive Product and Services

2.1.4 24M Semi-solid Battery for Automotive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 24M Recent Developments/Updates

2.2 Beijing WeLion

2.2.1 Beijing WeLion Details

2.2.2 Beijing WeLion Major Business

2.2.3 Beijing WeLion Semi-solid Battery for Automotive Product and Services

2.2.4 Beijing WeLion Semi-solid Battery for Automotive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Beijing WeLion Recent Developments/Updates

2.3 Ganfeng Lithium Industry

- 2.3.1 Ganfeng Lithium Industry Details
- 2.3.2 Ganfeng Lithium Industry Major Business
- 2.3.3 Ganfeng Lithium Industry Semi-solid Battery for Automotive Product and Services
- 2.3.4 Ganfeng Lithium Industry Semi-solid Battery for Automotive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.3.5 Ganfeng Lithium Industry Recent Developments/Updates
- 2.4 Hefei Gotion High-tech
  - 2.4.1 Hefei Gotion High-tech Details
  - 2.4.2 Hefei Gotion High-tech Major Business
  - 2.4.3 Hefei Gotion High-tech Semi-solid Battery for Automotive Product and Services
  - 2.4.4 Hefei Gotion High-tech Semi-solid Battery for Automotive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.4.5 Hefei Gotion High-tech Recent Developments/Updates
- 2.5 Farasis Energy
  - 2.5.1 Farasis Energy Details
  - 2.5.2 Farasis Energy Major Business
  - 2.5.3 Farasis Energy Semi-solid Battery for Automotive Product and Services
  - 2.5.4 Farasis Energy Semi-solid Battery for Automotive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.5.5 Farasis Energy Recent Developments/Updates
- 2.6 SES AI
  - 2.6.1 SES AI Details
  - 2.6.2 SES AI Major Business
  - 2.6.3 SES AI Semi-solid Battery for Automotive Product and Services
  - 2.6.4 SES AI Semi-solid Battery for Automotive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.6.5 SES AI Recent Developments/Updates
- 2.7 StoreDot
  - 2.7.1 StoreDot Details
  - 2.7.2 StoreDot Major Business
  - 2.7.3 StoreDot Semi-solid Battery for Automotive Product and Services
  - 2.7.4 StoreDot Semi-solid Battery for Automotive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.7.5 StoreDot Recent Developments/Updates
- 2.8 EVE Energy
  - 2.8.1 EVE Energy Details
  - 2.8.2 EVE Energy Major Business
  - 2.8.3 EVE Energy Semi-solid Battery for Automotive Product and Services

2.8.4 EVE Energy Semi-solid Battery for Automotive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 EVE Energy Recent Developments/Updates

2.9 QingTao (KunShan) Energy

2.9.1 QingTao (KunShan) Energy Details

2.9.2 QingTao (KunShan) Energy Major Business

2.9.3 QingTao (KunShan) Energy Semi-solid Battery for Automotive Product and Services

2.9.4 QingTao (KunShan) Energy Semi-solid Battery for Automotive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 QingTao (KunShan) Energy Recent Developments/Updates

2.10 Chongqing Changan Automobile

2.10.1 Chongqing Changan Automobile Details

2.10.2 Chongqing Changan Automobile Major Business

2.10.3 Chongqing Changan Automobile Semi-solid Battery for Automotive Product and Services

2.10.4 Chongqing Changan Automobile Semi-solid Battery for Automotive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Chongqing Changan Automobile Recent Developments/Updates

2.11 LGES

2.11.1 LGES Details

2.11.2 LGES Major Business

2.11.3 LGES Semi-solid Battery for Automotive Product and Services

2.11.4 LGES Semi-solid Battery for Automotive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 LGES Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: SEMI-SOLID BATTERY FOR AUTOMOTIVE BY MANUFACTURER**

3.1 Global Semi-solid Battery for Automotive Sales Quantity by Manufacturer (2021-2026)

3.2 Global Semi-solid Battery for Automotive Revenue by Manufacturer (2021-2026)

3.3 Global Semi-solid Battery for Automotive Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Semi-solid Battery for Automotive by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Semi-solid Battery for Automotive Manufacturer Market Share in 2025

- 3.4.3 Top 6 Semi-solid Battery for Automotive Manufacturer Market Share in 2025
- 3.5 Semi-solid Battery for Automotive Market: Overall Company Footprint Analysis
  - 3.5.1 Semi-solid Battery for Automotive Market: Region Footprint
  - 3.5.2 Semi-solid Battery for Automotive Market: Company Product Type Footprint
  - 3.5.3 Semi-solid Battery for Automotive Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Semi-solid Battery for Automotive Market Size by Region
  - 4.1.1 Global Semi-solid Battery for Automotive Sales Quantity by Region (2021-2032)
  - 4.1.2 Global Semi-solid Battery for Automotive Consumption Value by Region (2021-2032)
  - 4.1.3 Global Semi-solid Battery for Automotive Average Price by Region (2021-2032)
- 4.2 North America Semi-solid Battery for Automotive Consumption Value (2021-2032)
- 4.3 Europe Semi-solid Battery for Automotive Consumption Value (2021-2032)
- 4.4 Asia-Pacific Semi-solid Battery for Automotive Consumption Value (2021-2032)
- 4.5 South America Semi-solid Battery for Automotive Consumption Value (2021-2032)
- 4.6 Middle East & Africa Semi-solid Battery for Automotive Consumption Value (2021-2032)

## **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Semi-solid Battery for Automotive Sales Quantity by Type (2021-2032)
- 5.2 Global Semi-solid Battery for Automotive Consumption Value by Type (2021-2032)
- 5.3 Global Semi-solid Battery for Automotive Average Price by Type (2021-2032)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Semi-solid Battery for Automotive Sales Quantity by Application (2021-2032)
- 6.2 Global Semi-solid Battery for Automotive Consumption Value by Application (2021-2032)
- 6.3 Global Semi-solid Battery for Automotive Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

- 7.1 North America Semi-solid Battery for Automotive Sales Quantity by Type

(2021-2032)

7.2 North America Semi-solid Battery for Automotive Sales Quantity by Application

(2021-2032)

7.3 North America Semi-solid Battery for Automotive Market Size by Country

7.3.1 North America Semi-solid Battery for Automotive Sales Quantity by Country

(2021-2032)

7.3.2 North America Semi-solid Battery for Automotive Consumption Value by Country

(2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

8.1 Europe Semi-solid Battery for Automotive Sales Quantity by Type (2021-2032)

8.2 Europe Semi-solid Battery for Automotive Sales Quantity by Application

(2021-2032)

8.3 Europe Semi-solid Battery for Automotive Market Size by Country

8.3.1 Europe Semi-solid Battery for Automotive Sales Quantity by Country

(2021-2032)

8.3.2 Europe Semi-solid Battery for Automotive Consumption Value by Country

(2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Semi-solid Battery for Automotive Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Semi-solid Battery for Automotive Sales Quantity by Application

(2021-2032)

9.3 Asia-Pacific Semi-solid Battery for Automotive Market Size by Region

9.3.1 Asia-Pacific Semi-solid Battery for Automotive Sales Quantity by Region

(2021-2032)

9.3.2 Asia-Pacific Semi-solid Battery for Automotive Consumption Value by Region

(2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

- 9.3.4 Japan Market Size and Forecast (2021-2032)
- 9.3.5 South Korea Market Size and Forecast (2021-2032)
- 9.3.6 India Market Size and Forecast (2021-2032)
- 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
- 9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

- 10.1 South America Semi-solid Battery for Automotive Sales Quantity by Type (2021-2032)
- 10.2 South America Semi-solid Battery for Automotive Sales Quantity by Application (2021-2032)
- 10.3 South America Semi-solid Battery for Automotive Market Size by Country
  - 10.3.1 South America Semi-solid Battery for Automotive Sales Quantity by Country (2021-2032)
  - 10.3.2 South America Semi-solid Battery for Automotive Consumption Value by Country (2021-2032)
  - 10.3.3 Brazil Market Size and Forecast (2021-2032)
  - 10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

- 11.1 Middle East & Africa Semi-solid Battery for Automotive Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Semi-solid Battery for Automotive Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Semi-solid Battery for Automotive Market Size by Country
  - 11.3.1 Middle East & Africa Semi-solid Battery for Automotive Sales Quantity by Country (2021-2032)
  - 11.3.2 Middle East & Africa Semi-solid Battery for Automotive Consumption Value by Country (2021-2032)
  - 11.3.3 Turkey Market Size and Forecast (2021-2032)
  - 11.3.4 Egypt Market Size and Forecast (2021-2032)
  - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
  - 11.3.6 South Africa Market Size and Forecast (2021-2032)

## **12 MARKET DYNAMICS**

- 12.1 Semi-solid Battery for Automotive Market Drivers

12.2 Semi-solid Battery for Automotive Market Restraints

12.3 Semi-solid Battery for Automotive Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of Semi-solid Battery for Automotive and Key Manufacturers

13.2 Manufacturing Costs Percentage of Semi-solid Battery for Automotive

13.3 Semi-solid Battery for Automotive Production Process

13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Semi-solid Battery for Automotive Typical Distributors

14.3 Semi-solid Battery for Automotive Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

## List Of Figures

### LIST OF FIGURES

Table 1. Global Semi-solid Battery for Automotive Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Semi-solid Battery for Automotive Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 3. 24M Basic Information, Manufacturing Base and Competitors

Table 4. 24M Major Business

Table 5. 24M Semi-solid Battery for Automotive Product and Services

Table 6. 24M Semi-solid Battery for Automotive Sales Quantity (MWh), Average Price (USD/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 7. 24M Recent Developments/Updates

Table 8. Beijing WeLion Basic Information, Manufacturing Base and Competitors

Table 9. Beijing WeLion Major Business

Table 10. Beijing WeLion Semi-solid Battery for Automotive Product and Services

Table 11. Beijing WeLion Semi-solid Battery for Automotive Sales Quantity (MWh), Average Price (USD/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 12. Beijing WeLion Recent Developments/Updates

Table 13. Ganfeng Lithium Industry Basic Information, Manufacturing Base and Competitors

Table 14. Ganfeng Lithium Industry Major Business

Table 15. Ganfeng Lithium Industry Semi-solid Battery for Automotive Product and Services

Table 16. Ganfeng Lithium Industry Semi-solid Battery for Automotive Sales Quantity (MWh), Average Price (USD/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 17. Ganfeng Lithium Industry Recent Developments/Updates

Table 18. Hefei Gotion High-tech Basic Information, Manufacturing Base and Competitors

Table 19. Hefei Gotion High-tech Major Business

Table 20. Hefei Gotion High-tech Semi-solid Battery for Automotive Product and Services

Table 21. Hefei Gotion High-tech Semi-solid Battery for Automotive Sales Quantity (MWh), Average Price (USD/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 22. Hefei Gotion High-tech Recent Developments/Updates

Table 23. Farasis Energy Basic Information, Manufacturing Base and Competitors

Table 24. Farasis Energy Major Business

Table 25. Farasis Energy Semi-solid Battery for Automotive Product and Services

Table 26. Farasis Energy Semi-solid Battery for Automotive Sales Quantity (MWh), Average Price (USD/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 27. Farasis Energy Recent Developments/Updates

Table 28. SES AI Basic Information, Manufacturing Base and Competitors

Table 29. SES AI Major Business

Table 30. SES AI Semi-solid Battery for Automotive Product and Services

Table 31. SES AI Semi-solid Battery for Automotive Sales Quantity (MWh), Average Price (USD/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 32. SES AI Recent Developments/Updates

Table 33. StoreDot Basic Information, Manufacturing Base and Competitors

Table 34. StoreDot Major Business

Table 35. StoreDot Semi-solid Battery for Automotive Product and Services

Table 36. StoreDot Semi-solid Battery for Automotive Sales Quantity (MWh), Average Price (USD/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 37. StoreDot Recent Developments/Updates

Table 38. EVE Energy Basic Information, Manufacturing Base and Competitors

Table 39. EVE Energy Major Business

Table 40. EVE Energy Semi-solid Battery for Automotive Product and Services

Table 41. EVE Energy Semi-solid Battery for Automotive Sales Quantity (MWh), Average Price (USD/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 42. EVE Energy Recent Developments/Updates

Table 43. QingTao (KunShan) Energy Basic Information, Manufacturing Base and Competitors

Table 44. QingTao (KunShan) Energy Major Business

Table 45. QingTao (KunShan) Energy Semi-solid Battery for Automotive Product and Services

Table 46. QingTao (KunShan) Energy Semi-solid Battery for Automotive Sales Quantity (MWh), Average Price (USD/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 47. QingTao (KunShan) Energy Recent Developments/Updates

Table 48. Chongqing Changan Automobile Basic Information, Manufacturing Base and Competitors

Table 49. Chongqing Changan Automobile Major Business

Table 50. Chongqing Changan Automobile Semi-solid Battery for Automotive Product and Services

Table 51. Chongqing Changan Automobile Semi-solid Battery for Automotive Sales Quantity (MWh), Average Price (USD/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 52. Chongqing Changan Automobile Recent Developments/Updates

Table 53. LGES Basic Information, Manufacturing Base and Competitors

Table 54. LGES Major Business

Table 55. LGES Semi-solid Battery for Automotive Product and Services

Table 56. LGES Semi-solid Battery for Automotive Sales Quantity (MWh), Average Price (USD/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 57. LGES Recent Developments/Updates

Table 58. Global Semi-solid Battery for Automotive Sales Quantity by Manufacturer (2021-2026) & (MWh)

Table 59. Global Semi-solid Battery for Automotive Revenue by Manufacturer (2021-2026) & (USD Million)

Table 60. Global Semi-solid Battery for Automotive Average Price by Manufacturer (2021-2026) & (USD/KWh)

Table 61. Market Position of Manufacturers in Semi-solid Battery for Automotive, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 62. Head Office and Semi-solid Battery for Automotive Production Site of Key Manufacturer

Table 63. Semi-solid Battery for Automotive Market: Company Product Type Footprint

Table 64. Semi-solid Battery for Automotive Market: Company Product Application Footprint

Table 65. Semi-solid Battery for Automotive New Market Entrants and Barriers to Market Entry

Table 66. Semi-solid Battery for Automotive Mergers, Acquisition, Agreements, and Collaborations

Table 67. Global Semi-solid Battery for Automotive Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 68. Global Semi-solid Battery for Automotive Sales Quantity by Region (2021-2026) & (MWh)

Table 69. Global Semi-solid Battery for Automotive Sales Quantity by Region (2027-2032) & (MWh)

Table 70. Global Semi-solid Battery for Automotive Consumption Value by Region (2021-2026) & (USD Million)

Table 71. Global Semi-solid Battery for Automotive Consumption Value by Region (2027-2032) & (USD Million)

Table 72. Global Semi-solid Battery for Automotive Average Price by Region (2021-2026) & (USD/KWh)

Table 73. Global Semi-solid Battery for Automotive Average Price by Region (2027-2032) & (USD/KWh)

Table 74. Global Semi-solid Battery for Automotive Sales Quantity by Type (2021-2026) & (MWh)

Table 75. Global Semi-solid Battery for Automotive Sales Quantity by Type (2027-2032) & (MWh)

Table 76. Global Semi-solid Battery for Automotive Consumption Value by Type (2021-2026) & (USD Million)

Table 77. Global Semi-solid Battery for Automotive Consumption Value by Type (2027-2032) & (USD Million)

Table 78. Global Semi-solid Battery for Automotive Average Price by Type (2021-2026) & (USD/KWh)

Table 79. Global Semi-solid Battery for Automotive Average Price by Type (2027-2032) & (USD/KWh)

Table 80. Global Semi-solid Battery for Automotive Sales Quantity by Application (2021-2026) & (MWh)

Table 81. Global Semi-solid Battery for Automotive Sales Quantity by Application (2027-2032) & (MWh)

Table 82. Global Semi-solid Battery for Automotive Consumption Value by Application (2021-2026) & (USD Million)

Table 83. Global Semi-solid Battery for Automotive Consumption Value by Application (2027-2032) & (USD Million)

Table 84. Global Semi-solid Battery for Automotive Average Price by Application (2021-2026) & (USD/KWh)

Table 85. Global Semi-solid Battery for Automotive Average Price by Application (2027-2032) & (USD/KWh)

Table 86. North America Semi-solid Battery for Automotive Sales Quantity by Type (2021-2026) & (MWh)

Table 87. North America Semi-solid Battery for Automotive Sales Quantity by Type (2027-2032) & (MWh)

Table 88. North America Semi-solid Battery for Automotive Sales Quantity by Application (2021-2026) & (MWh)

Table 89. North America Semi-solid Battery for Automotive Sales Quantity by Application (2027-2032) & (MWh)

Table 90. North America Semi-solid Battery for Automotive Sales Quantity by Country

(2021-2026) & (MWh)

Table 91. North America Semi-solid Battery for Automotive Sales Quantity by Country (2027-2032) & (MWh)

Table 92. North America Semi-solid Battery for Automotive Consumption Value by Country (2021-2026) & (USD Million)

Table 93. North America Semi-solid Battery for Automotive Consumption Value by Country (2027-2032) & (USD Million)

Table 94. Europe Semi-solid Battery for Automotive Sales Quantity by Type (2021-2026) & (MWh)

Table 95. Europe Semi-solid Battery for Automotive Sales Quantity by Type (2027-2032) & (MWh)

Table 96. Europe Semi-solid Battery for Automotive Sales Quantity by Application (2021-2026) & (MWh)

Table 97. Europe Semi-solid Battery for Automotive Sales Quantity by Application (2027-2032) & (MWh)

Table 98. Europe Semi-solid Battery for Automotive Sales Quantity by Country (2021-2026) & (MWh)

Table 99. Europe Semi-solid Battery for Automotive Sales Quantity by Country (2027-2032) & (MWh)

Table 100. Europe Semi-solid Battery for Automotive Consumption Value by Country (2021-2026) & (USD Million)

Table 101. Europe Semi-solid Battery for Automotive Consumption Value by Country (2027-2032) & (USD Million)

Table 102. Asia-Pacific Semi-solid Battery for Automotive Sales Quantity by Type (2021-2026) & (MWh)

Table 103. Asia-Pacific Semi-solid Battery for Automotive Sales Quantity by Type (2027-2032) & (MWh)

Table 104. Asia-Pacific Semi-solid Battery for Automotive Sales Quantity by Application (2021-2026) & (MWh)

Table 105. Asia-Pacific Semi-solid Battery for Automotive Sales Quantity by Application (2027-2032) & (MWh)

Table 106. Asia-Pacific Semi-solid Battery for Automotive Sales Quantity by Region (2021-2026) & (MWh)

Table 107. Asia-Pacific Semi-solid Battery for Automotive Sales Quantity by Region (2027-2032) & (MWh)

Table 108. Asia-Pacific Semi-solid Battery for Automotive Consumption Value by Region (2021-2026) & (USD Million)

Table 109. Asia-Pacific Semi-solid Battery for Automotive Consumption Value by Region (2027-2032) & (USD Million)

Table 110. South America Semi-solid Battery for Automotive Sales Quantity by Type (2021-2026) & (MWh)

Table 111. South America Semi-solid Battery for Automotive Sales Quantity by Type (2027-2032) & (MWh)

Table 112. South America Semi-solid Battery for Automotive Sales Quantity by Application (2021-2026) & (MWh)

Table 113. South America Semi-solid Battery for Automotive Sales Quantity by Application (2027-2032) & (MWh)

Table 114. South America Semi-solid Battery for Automotive Sales Quantity by Country (2021-2026) & (MWh)

Table 115. South America Semi-solid Battery for Automotive Sales Quantity by Country (2027-2032) & (MWh)

Table 116. South America Semi-solid Battery for Automotive Consumption Value by Country (2021-2026) & (USD Million)

Table 117. South America Semi-solid Battery for Automotive Consumption Value by Country (2027-2032) & (USD Million)

Table 118. Middle East & Africa Semi-solid Battery for Automotive Sales Quantity by Type (2021-2026) & (MWh)

Table 119. Middle East & Africa Semi-solid Battery for Automotive Sales Quantity by Type (2027-2032) & (MWh)

Table 120. Middle East & Africa Semi-solid Battery for Automotive Sales Quantity by Application (2021-2026) & (MWh)

Table 121. Middle East & Africa Semi-solid Battery for Automotive Sales Quantity by Application (2027-2032) & (MWh)

Table 122. Middle East & Africa Semi-solid Battery for Automotive Sales Quantity by Country (2021-2026) & (MWh)

Table 123. Middle East & Africa Semi-solid Battery for Automotive Sales Quantity by Country (2027-2032) & (MWh)

Table 124. Middle East & Africa Semi-solid Battery for Automotive Consumption Value by Country (2021-2026) & (USD Million)

Table 125. Middle East & Africa Semi-solid Battery for Automotive Consumption Value by Country (2027-2032) & (USD Million)

Table 126. Semi-solid Battery for Automotive Raw Material

Table 127. Key Manufacturers of Semi-solid Battery for Automotive Raw Materials

Table 128. Semi-solid Battery for Automotive Typical Distributors

Table 129. Semi-solid Battery for Automotive Typical Customers

## **LIST OF FIGURES**

Figure 1. Semi-solid Battery for Automotive Picture

Figure 2. Global Semi-solid Battery for Automotive Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Semi-solid Battery for Automotive Revenue Market Share by Type in 2025

Figure 4. Oxide Semi-solid Battery Examples

Figure 5. Polymer Semi-solid Battery Examples

Figure 6. Global Semi-solid Battery for Automotive Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 7. Global Semi-solid Battery for Automotive Revenue Market Share by Application in 2025

Figure 8. Passenger Vehicle Examples

Figure 9. Commercial Vehicle Examples

Figure 10. Global Semi-solid Battery for Automotive Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 11. Global Semi-solid Battery for Automotive Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 12. Global Semi-solid Battery for Automotive Sales Quantity (2021-2032) & (MWh)

Figure 13. Global Semi-solid Battery for Automotive Price (2021-2032) & (USD/KWh)

Figure 14. Global Semi-solid Battery for Automotive Sales Quantity Market Share by Manufacturer in 2025

Figure 15. Global Semi-solid Battery for Automotive Revenue Market Share by Manufacturer in 2025

Figure 16. Producer Shipments of Semi-solid Battery for Automotive by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 17. Top 3 Semi-solid Battery for Automotive Manufacturer (Revenue) Market Share in 2025

Figure 18. Top 6 Semi-solid Battery for Automotive Manufacturer (Revenue) Market Share in 2025

Figure 19. Global Semi-solid Battery for Automotive Sales Quantity Market Share by Region (2021-2032)

Figure 20. Global Semi-solid Battery for Automotive Consumption Value Market Share by Region (2021-2032)

Figure 21. North America Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 22. Europe Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 23. Asia-Pacific Semi-solid Battery for Automotive Consumption Value

(2021-2032) & (USD Million)

Figure 24. South America Semi-solid Battery for Automotive Consumption Value

(2021-2032) & (USD Million)

Figure 25. Middle East & Africa Semi-solid Battery for Automotive Consumption Value

(2021-2032) & (USD Million)

Figure 26. Global Semi-solid Battery for Automotive Sales Quantity Market Share by Type (2021-2032)

Figure 27. Global Semi-solid Battery for Automotive Consumption Value Market Share by Type (2021-2032)

Figure 28. Global Semi-solid Battery for Automotive Average Price by Type (2021-2032) & (USD/KWh)

Figure 29. Global Semi-solid Battery for Automotive Sales Quantity Market Share by Application (2021-2032)

Figure 30. Global Semi-solid Battery for Automotive Revenue Market Share by Application (2021-2032)

Figure 31. Global Semi-solid Battery for Automotive Average Price by Application (2021-2032) & (USD/KWh)

Figure 32. North America Semi-solid Battery for Automotive Sales Quantity Market Share by Type (2021-2032)

Figure 33. North America Semi-solid Battery for Automotive Sales Quantity Market Share by Application (2021-2032)

Figure 34. North America Semi-solid Battery for Automotive Sales Quantity Market Share by Country (2021-2032)

Figure 35. North America Semi-solid Battery for Automotive Consumption Value Market Share by Country (2021-2032)

Figure 36. United States Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 37. Canada Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 38. Mexico Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 39. Europe Semi-solid Battery for Automotive Sales Quantity Market Share by Type (2021-2032)

Figure 40. Europe Semi-solid Battery for Automotive Sales Quantity Market Share by Application (2021-2032)

Figure 41. Europe Semi-solid Battery for Automotive Sales Quantity Market Share by Country (2021-2032)

Figure 42. Europe Semi-solid Battery for Automotive Consumption Value Market Share by Country (2021-2032)

Figure 43. Germany Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 44. France Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 45. United Kingdom Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 46. Russia Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 47. Italy Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 48. Asia-Pacific Semi-solid Battery for Automotive Sales Quantity Market Share by Type (2021-2032)

Figure 49. Asia-Pacific Semi-solid Battery for Automotive Sales Quantity Market Share by Application (2021-2032)

Figure 50. Asia-Pacific Semi-solid Battery for Automotive Sales Quantity Market Share by Region (2021-2032)

Figure 51. Asia-Pacific Semi-solid Battery for Automotive Consumption Value Market Share by Region (2021-2032)

Figure 52. China Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 53. Japan Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 54. South Korea Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 55. India Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 56. Southeast Asia Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 57. Australia Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 58. South America Semi-solid Battery for Automotive Sales Quantity Market Share by Type (2021-2032)

Figure 59. South America Semi-solid Battery for Automotive Sales Quantity Market Share by Application (2021-2032)

Figure 60. South America Semi-solid Battery for Automotive Sales Quantity Market Share by Country (2021-2032)

Figure 61. South America Semi-solid Battery for Automotive Consumption Value Market Share by Country (2021-2032)

Figure 62. Brazil Semi-solid Battery for Automotive Consumption Value (2021-2032) &

(USD Million)

Figure 63. Argentina Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 64. Middle East & Africa Semi-solid Battery for Automotive Sales Quantity Market Share by Type (2021-2032)

Figure 65. Middle East & Africa Semi-solid Battery for Automotive Sales Quantity Market Share by Application (2021-2032)

Figure 66. Middle East & Africa Semi-solid Battery for Automotive Sales Quantity Market Share by Country (2021-2032)

Figure 67. Middle East & Africa Semi-solid Battery for Automotive Consumption Value Market Share by Country (2021-2032)

Figure 68. Turkey Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 69. Egypt Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 70. Saudi Arabia Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 71. South Africa Semi-solid Battery for Automotive Consumption Value (2021-2032) & (USD Million)

Figure 72. Semi-solid Battery for Automotive Market Drivers

Figure 73. Semi-solid Battery for Automotive Market Restraints

Figure 74. Semi-solid Battery for Automotive Market Trends

Figure 75. Porters Five Forces Analysis

Figure 76. Manufacturing Cost Structure Analysis of Semi-solid Battery for Automotive in 2025

Figure 77. Manufacturing Process Analysis of Semi-solid Battery for Automotive

Figure 78. Semi-solid Battery for Automotive Industrial Chain

Figure 79. Sales Channel: Direct to End-User vs Distributors

Figure 80. Direct Channel Pros & Cons

Figure 81. Indirect Channel Pros & Cons

Figure 82. Methodology

Figure 83. Research Process and Data Source

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