

Global Long-Range Automotive Semi-Solid Battery Pack Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Long-Range Automotive Semi-Solid Battery Pack market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

In a solid state battery, the liquid electrolyte and separator often are replaced by a polymer or ceramic. Long-range automotive semi-solid battery packs are a variation of that, typically composed of a solid, conductive material suspended in a liquid electrolyte to help ease the movement of the lithium ions. Semi-solid electric vehicle battery packs have the strengths of liquid and solid and do not require much change in the conventional battery manufacturing process. Therefore, they can be commercialized faster than solid-state batteries even while they have higher safety than lithium-ion batteries.

The market trend for long-range automotive semi-solid battery packs is being driven by the rapid expansion of the electric vehicle industry. These battery packs offer high energy density, strong safety features, and rapid charging capabilities, providing electric vehicles with extended range and enhanced performance. As the technology matures and costs decrease, long-range automotive semi-solid battery packs are poised to become the mainstream choice for electric vehicles. Additionally, they are expected to find widespread applications in other sectors such as energy storage systems and aerospace. Consequently, the market is expected to witness rapid growth.

This report is a detailed and comprehensive analysis for global Long-Range Automotive Semi-Solid Battery Pack 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 Long-Range Automotive Semi-Solid Battery Pack market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Long-Range Automotive Semi-Solid Battery Pack market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Long-Range Automotive Semi-Solid Battery Pack market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Long-Range Automotive Semi-Solid Battery Pack market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Long-Range Automotive Semi-Solid Battery Pack
- 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 Long-Range Automotive Semi-Solid Battery Pack 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, Changan Automobile, etc.

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

Market Segmentation

Long-Range Automotive Semi-Solid Battery Pack market is split by Type and by Application. For the period 2020-2031, 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 Pack

Polymer Semi-Solid Battery Pac

Market segment by Application

Private 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

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 Long-Range Automotive Semi-Solid Battery Pack product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Long-Range Automotive Semi-Solid

Battery Pack, with price, sales quantity, revenue, and global market share of Long-Range Automotive Semi-Solid Battery Pack from 2020 to 2025.

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

Chapter 4, the Long-Range Automotive Semi-Solid Battery Pack breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Long-Range Automotive Semi-Solid Battery Pack market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Long-Range Automotive Semi-Solid Battery Pack.

Chapter 14 and 15, to describe Long-Range Automotive Semi-Solid Battery Pack 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 Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Type: 2020 Versus 2024 Versus 2031
 - 1.3.2 Oxide Semi-Solid Battery Pack
 - 1.3.3 Polymer Semi-Solid Battery Pack
- 1.4 Market Analysis by Application
 - 1.4.1 Overview: Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Application: 2020 Versus 2024 Versus 2031
 - 1.4.2 Private Vehicle
 - 1.4.3 Commercial Vehicle
- 1.5 Global Long-Range Automotive Semi-Solid Battery Pack Market Size & Forecast
 - 1.5.1 Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020 & 2024 & 2031)
 - 1.5.2 Global Long-Range Automotive Semi-Solid Battery Pack Sales Quantity (2020-2031)
 - 1.5.3 Global Long-Range Automotive Semi-Solid Battery Pack Average Price (2020-2031)

2 MANUFACTURERS PROFILES

- 2.1 24M
 - 2.1.1 24M Details
 - 2.1.2 24M Major Business
 - 2.1.3 24M Long-Range Automotive Semi-Solid Battery Pack Product and Services
 - 2.1.4 24M Long-Range Automotive Semi-Solid Battery Pack Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 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 Long-Range Automotive Semi-Solid Battery Pack Product and Services
 - 2.2.4 Beijing WeLion Long-Range Automotive Semi-Solid Battery Pack Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2020-2025)

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 Long-Range Automotive Semi-Solid Battery Pack

Product and Services

2.3.4 Ganfeng Lithium Industry Long-Range Automotive Semi-Solid Battery Pack

Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

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 Long-Range Automotive Semi-Solid Battery Pack

Product and Services

2.4.4 Hefei Gotion High-tech Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

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 Long-Range Automotive Semi-Solid Battery Pack Product and

Services

2.5.4 Farasis Energy Long-Range Automotive Semi-Solid Battery Pack Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2020-2025)

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 Long-Range Automotive Semi-Solid Battery Pack Product and Services

2.6.4 SES AI Long-Range Automotive Semi-Solid Battery Pack Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2020-2025)

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 Long-Range Automotive Semi-Solid Battery Pack Product and Services

2.7.4 StoreDot Long-Range Automotive Semi-Solid Battery Pack Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2020-2025)

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 Long-Range Automotive Semi-Solid Battery Pack Product and Services

2.8.4 EVE Energy Long-Range Automotive Semi-Solid Battery Pack Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

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 Long-Range Automotive Semi-Solid Battery Pack Product and Services

2.9.4 QingTao (KunShan) Energy Long-Range Automotive Semi-Solid Battery Pack Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.9.5 QingTao (KunShan) Energy Recent Developments/Updates

2.10 Changan Automobile

2.10.1 Changan Automobile Details

2.10.2 Changan Automobile Major Business

2.10.3 Changan Automobile Long-Range Automotive Semi-Solid Battery Pack Product and Services

2.10.4 Changan Automobile Long-Range Automotive Semi-Solid Battery Pack Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.10.5 Changan Automobile Recent Developments/Updates

2.11 LGES

2.11.1 LGES Details

2.11.2 LGES Major Business

2.11.3 LGES Long-Range Automotive Semi-Solid Battery Pack Product and Services

2.11.4 LGES Long-Range Automotive Semi-Solid Battery Pack Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.11.5 LGES Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: LONG-RANGE AUTOMOTIVE SEMI-SOLID BATTERY PACK BY MANUFACTURER

3.1 Global Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Manufacturer (2020-2025)

3.2 Global Long-Range Automotive Semi-Solid Battery Pack Revenue by Manufacturer

(2020-2025)

3.3 Global Long-Range Automotive Semi-Solid Battery Pack Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of Long-Range Automotive Semi-Solid Battery Pack by Manufacturer Revenue (\$MM) and Market Share (%): 2024

3.4.2 Top 3 Long-Range Automotive Semi-Solid Battery Pack Manufacturer Market Share in 2024

3.4.3 Top 6 Long-Range Automotive Semi-Solid Battery Pack Manufacturer Market Share in 2024

3.5 Long-Range Automotive Semi-Solid Battery Pack Market: Overall Company Footprint Analysis

3.5.1 Long-Range Automotive Semi-Solid Battery Pack Market: Region Footprint

3.5.2 Long-Range Automotive Semi-Solid Battery Pack Market: Company Product Type Footprint

3.5.3 Long-Range Automotive Semi-Solid Battery Pack 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 Long-Range Automotive Semi-Solid Battery Pack Market Size by Region

4.1.1 Global Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Region (2020-2031)

4.1.2 Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Region (2020-2031)

4.1.3 Global Long-Range Automotive Semi-Solid Battery Pack Average Price by Region (2020-2031)

4.2 North America Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031)

4.3 Europe Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031)

4.4 Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031)

4.5 South America Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031)

4.6 Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

5.1 Global Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Type (2020-2031)

5.2 Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Type (2020-2031)

5.3 Global Long-Range Automotive Semi-Solid Battery Pack Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Application (2020-2031)

6.2 Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Application (2020-2031)

6.3 Global Long-Range Automotive Semi-Solid Battery Pack Average Price by Application (2020-2031)

7 NORTH AMERICA

7.1 North America Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Type (2020-2031)

7.2 North America Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Application (2020-2031)

7.3 North America Long-Range Automotive Semi-Solid Battery Pack Market Size by Country

7.3.1 North America Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Country (2020-2031)

7.3.2 North America Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

8.1 Europe Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Type (2020-2031)

8.2 Europe Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Application (2020-2031)

8.3 Europe Long-Range Automotive Semi-Solid Battery Pack Market Size by Country

8.3.1 Europe Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Country (2020-2031)

8.3.2 Europe Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

9.1 Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Application (2020-2031)

9.3 Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Market Size by Region

9.3.1 Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Region (2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

10.1 South America Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Type (2020-2031)

10.2 South America Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Application (2020-2031)

10.3 South America Long-Range Automotive Semi-Solid Battery Pack Market Size by

Country

10.3.1 South America Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity by Country (2020-2031)

10.3.2 South America Long-Range Automotive Semi-Solid Battery Pack Consumption

Value by Country (2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity by Type (2020-2031)

11.2 Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity by Application (2020-2031)

11.3 Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack Market Size by Country

11.3.1 Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

12.1 Long-Range Automotive Semi-Solid Battery Pack Market Drivers

12.2 Long-Range Automotive Semi-Solid Battery Pack Market Restraints

12.3 Long-Range Automotive Semi-Solid Battery Pack 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 Long-Range Automotive Semi-Solid Battery Pack and Key Manufacturers

13.2 Manufacturing Costs Percentage of Long-Range Automotive Semi-Solid Battery Pack

13.3 Long-Range Automotive Semi-Solid Battery Pack 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 Long-Range Automotive Semi-Solid Battery Pack Typical Distributors

14.3 Long-Range Automotive Semi-Solid Battery Pack Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Type, (USD Million), 2020 & 2024 & 2031
- Table 2. Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Application, (USD Million), 2020 & 2024 & 2031
- Table 3. 24M Basic Information, Manufacturing Base and Competitors
- Table 4. 24M Major Business
- Table 5. 24M Long-Range Automotive Semi-Solid Battery Pack Product and Services
- Table 6. 24M Long-Range Automotive Semi-Solid Battery Pack Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- 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 Long-Range Automotive Semi-Solid Battery Pack Product and Services
- Table 11. Beijing WeLion Long-Range Automotive Semi-Solid Battery Pack Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- 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 Long-Range Automotive Semi-Solid Battery Pack Product and Services
- Table 16. Ganfeng Lithium Industry Long-Range Automotive Semi-Solid Battery Pack Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- 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 Long-Range Automotive Semi-Solid Battery Pack Product and Services
- Table 21. Hefei Gotion High-tech Long-Range Automotive Semi-Solid Battery Pack Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross

Margin and Market Share (2020-2025)**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 Long-Range Automotive Semi-Solid Battery Pack Product and Services****Table 26. Farasis Energy Long-Range Automotive Semi-Solid Battery Pack Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)****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 Long-Range Automotive Semi-Solid Battery Pack Product and Services****Table 31. SES AI Long-Range Automotive Semi-Solid Battery Pack Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)****Table 32. SES AI Recent Developments/Updates****Table 33. StoreDot Basic Information, Manufacturing Base and Competitors****Table 34. StoreDot Major Business****Table 35. StoreDot Long-Range Automotive Semi-Solid Battery Pack Product and Services****Table 36. StoreDot Long-Range Automotive Semi-Solid Battery Pack Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)****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 Long-Range Automotive Semi-Solid Battery Pack Product and Services****Table 41. EVE Energy Long-Range Automotive Semi-Solid Battery Pack Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)****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 Long-Range Automotive Semi-Solid Battery Pack Product and Services**

Table 46. QingTao (KunShan) Energy Long-Range Automotive Semi-Solid Battery Pack Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

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

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

Table 49. Changan Automobile Major Business

Table 50. Changan Automobile Long-Range Automotive Semi-Solid Battery Pack Product and Services

Table 51. Changan Automobile Long-Range Automotive Semi-Solid Battery Pack Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. Changan Automobile Recent Developments/Updates

Table 53. LGES Basic Information, Manufacturing Base and Competitors

Table 54. LGES Major Business

Table 55. LGES Long-Range Automotive Semi-Solid Battery Pack Product and Services

Table 56. LGES Long-Range Automotive Semi-Solid Battery Pack Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 57. LGES Recent Developments/Updates

Table 58. Global Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Manufacturer (2020-2025) & (K Units)

Table 59. Global Long-Range Automotive Semi-Solid Battery Pack Revenue by Manufacturer (2020-2025) & (USD Million)

Table 60. Global Long-Range Automotive Semi-Solid Battery Pack Average Price by Manufacturer (2020-2025) & (US\$/Unit)

Table 61. Market Position of Manufacturers in Long-Range Automotive Semi-Solid Battery Pack, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 62. Head Office and Long-Range Automotive Semi-Solid Battery Pack Production Site of Key Manufacturer

Table 63. Long-Range Automotive Semi-Solid Battery Pack Market: Company Product Type Footprint

Table 64. Long-Range Automotive Semi-Solid Battery Pack Market: Company Product Application Footprint

Table 65. Long-Range Automotive Semi-Solid Battery Pack New Market Entrants and Barriers to Market Entry

Table 66. Long-Range Automotive Semi-Solid Battery Pack Mergers, Acquisition, Agreements, and Collaborations

Table 67. Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value

by Region (2020-2024-2031) & (USD Million) & CAGR

Table 68. Global Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Region (2020-2025) & (K Units)

Table 69. Global Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Region (2026-2031) & (K Units)

Table 70. Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Region (2020-2025) & (USD Million)

Table 71. Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Region (2026-2031) & (USD Million)

Table 72. Global Long-Range Automotive Semi-Solid Battery Pack Average Price by Region (2020-2025) & (US\$/Unit)

Table 73. Global Long-Range Automotive Semi-Solid Battery Pack Average Price by Region (2026-2031) & (US\$/Unit)

Table 74. Global Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Type (2020-2025) & (K Units)

Table 75. Global Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Type (2026-2031) & (K Units)

Table 76. Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Type (2020-2025) & (USD Million)

Table 77. Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Type (2026-2031) & (USD Million)

Table 78. Global Long-Range Automotive Semi-Solid Battery Pack Average Price by Type (2020-2025) & (US\$/Unit)

Table 79. Global Long-Range Automotive Semi-Solid Battery Pack Average Price by Type (2026-2031) & (US\$/Unit)

Table 80. Global Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Application (2020-2025) & (K Units)

Table 81. Global Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Application (2026-2031) & (K Units)

Table 82. Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Application (2020-2025) & (USD Million)

Table 83. Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Application (2026-2031) & (USD Million)

Table 84. Global Long-Range Automotive Semi-Solid Battery Pack Average Price by Application (2020-2025) & (US\$/Unit)

Table 85. Global Long-Range Automotive Semi-Solid Battery Pack Average Price by Application (2026-2031) & (US\$/Unit)

Table 86. North America Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Type (2020-2025) & (K Units)

Table 87. North America Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Type (2026-2031) & (K Units)

Table 88. North America Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Application (2020-2025) & (K Units)

Table 89. North America Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Application (2026-2031) & (K Units)

Table 90. North America Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Country (2020-2025) & (K Units)

Table 91. North America Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Country (2026-2031) & (K Units)

Table 92. North America Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Country (2020-2025) & (USD Million)

Table 93. North America Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Country (2026-2031) & (USD Million)

Table 94. Europe Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Type (2020-2025) & (K Units)

Table 95. Europe Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Type (2026-2031) & (K Units)

Table 96. Europe Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Application (2020-2025) & (K Units)

Table 97. Europe Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Application (2026-2031) & (K Units)

Table 98. Europe Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Country (2020-2025) & (K Units)

Table 99. Europe Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Country (2026-2031) & (K Units)

Table 100. Europe Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Country (2020-2025) & (USD Million)

Table 101. Europe Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Country (2026-2031) & (USD Million)

Table 102. Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Type (2020-2025) & (K Units)

Table 103. Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Type (2026-2031) & (K Units)

Table 104. Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Application (2020-2025) & (K Units)

Table 105. Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Sales Quantity by Application (2026-2031) & (K Units)

Table 106. Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity by Region (2020-2025) & (K Units)

Table 107. Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity by Region (2026-2031) & (K Units)

Table 108. Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Consumption

Value by Region (2020-2025) & (USD Million)

Table 109. Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Consumption

Value by Region (2026-2031) & (USD Million)

Table 110. South America Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity by Type (2020-2025) & (K Units)

Table 111. South America Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity by Type (2026-2031) & (K Units)

Table 112. South America Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity by Application (2020-2025) & (K Units)

Table 113. South America Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity by Application (2026-2031) & (K Units)

Table 114. South America Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity by Country (2020-2025) & (K Units)

Table 115. South America Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity by Country (2026-2031) & (K Units)

Table 116. South America Long-Range Automotive Semi-Solid Battery Pack

Consumption Value by Country (2020-2025) & (USD Million)

Table 117. South America Long-Range Automotive Semi-Solid Battery Pack

Consumption Value by Country (2026-2031) & (USD Million)

Table 118. Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity by Type (2020-2025) & (K Units)

Table 119. Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity by Type (2026-2031) & (K Units)

Table 120. Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity by Application (2020-2025) & (K Units)

Table 121. Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity by Application (2026-2031) & (K Units)

Table 122. Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity by Country (2020-2025) & (K Units)

Table 123. Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity by Country (2026-2031) & (K Units)

Table 124. Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack

Consumption Value by Country (2020-2025) & (USD Million)

Table 125. Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack

Consumption Value by Country (2026-2031) & (USD Million)

Table 126. Long-Range Automotive Semi-Solid Battery Pack Raw Material

Table 127. Key Manufacturers of Long-Range Automotive Semi-Solid Battery Pack Raw Materials

Table 128. Long-Range Automotive Semi-Solid Battery Pack Typical Distributors

Table 129. Long-Range Automotive Semi-Solid Battery Pack Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Long-Range Automotive Semi-Solid Battery Pack Picture
- Figure 2. Global Long-Range Automotive Semi-Solid Battery Pack Revenue by Type, (USD Million), 2020 & 2024 & 2031
- Figure 3. Global Long-Range Automotive Semi-Solid Battery Pack Revenue Market Share by Type in 2024
- Figure 4. Oxide Semi-Solid Battery Pack Examples
- Figure 5. Polymer Semi-Solid Battery Pac Examples
- Figure 6. Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value by Application, (USD Million), 2020 & 2024 & 2031
- Figure 7. Global Long-Range Automotive Semi-Solid Battery Pack Revenue Market Share by Application in 2024
- Figure 8. Private Vehicle Examples
- Figure 9. Commercial Vehicle Examples
- Figure 10. Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value, (USD Million): 2020 & 2024 & 2031
- Figure 11. Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value and Forecast (2020-2031) & (USD Million)
- Figure 12. Global Long-Range Automotive Semi-Solid Battery Pack Sales Quantity (2020-2031) & (K Units)
- Figure 13. Global Long-Range Automotive Semi-Solid Battery Pack Price (2020-2031) & (US\$/Unit)
- Figure 14. Global Long-Range Automotive Semi-Solid Battery Pack Sales Quantity Market Share by Manufacturer in 2024
- Figure 15. Global Long-Range Automotive Semi-Solid Battery Pack Revenue Market Share by Manufacturer in 2024
- Figure 16. Producer Shipments of Long-Range Automotive Semi-Solid Battery Pack by Manufacturer Sales (\$MM) and Market Share (%): 2024
- Figure 17. Top 3 Long-Range Automotive Semi-Solid Battery Pack Manufacturer (Revenue) Market Share in 2024
- Figure 18. Top 6 Long-Range Automotive Semi-Solid Battery Pack Manufacturer (Revenue) Market Share in 2024
- Figure 19. Global Long-Range Automotive Semi-Solid Battery Pack Sales Quantity Market Share by Region (2020-2031)
- Figure 20. Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value Market Share by Region (2020-2031)

- Figure 21. North America Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031) & (USD Million)
- Figure 22. Europe Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031) & (USD Million)
- Figure 23. Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031) & (USD Million)
- Figure 24. South America Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031) & (USD Million)
- Figure 25. Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031) & (USD Million)
- Figure 26. Global Long-Range Automotive Semi-Solid Battery Pack Sales Quantity Market Share by Type (2020-2031)
- Figure 27. Global Long-Range Automotive Semi-Solid Battery Pack Consumption Value Market Share by Type (2020-2031)
- Figure 28. Global Long-Range Automotive Semi-Solid Battery Pack Average Price by Type (2020-2031) & (US\$/Unit)
- Figure 29. Global Long-Range Automotive Semi-Solid Battery Pack Sales Quantity Market Share by Application (2020-2031)
- Figure 30. Global Long-Range Automotive Semi-Solid Battery Pack Revenue Market Share by Application (2020-2031)
- Figure 31. Global Long-Range Automotive Semi-Solid Battery Pack Average Price by Application (2020-2031) & (US\$/Unit)
- Figure 32. North America Long-Range Automotive Semi-Solid Battery Pack Sales Quantity Market Share by Type (2020-2031)
- Figure 33. North America Long-Range Automotive Semi-Solid Battery Pack Sales Quantity Market Share by Application (2020-2031)
- Figure 34. North America Long-Range Automotive Semi-Solid Battery Pack Sales Quantity Market Share by Country (2020-2031)
- Figure 35. North America Long-Range Automotive Semi-Solid Battery Pack Consumption Value Market Share by Country (2020-2031)
- Figure 36. United States Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031) & (USD Million)
- Figure 37. Canada Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031) & (USD Million)
- Figure 38. Mexico Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031) & (USD Million)
- Figure 39. Europe Long-Range Automotive Semi-Solid Battery Pack Sales Quantity Market Share by Type (2020-2031)
- Figure 40. Europe Long-Range Automotive Semi-Solid Battery Pack Sales Quantity

Market Share by Application (2020-2031)

Figure 41. Europe Long-Range Automotive Semi-Solid Battery Pack Sales Quantity

Market Share by Country (2020-2031)

Figure 42. Europe Long-Range Automotive Semi-Solid Battery Pack Consumption

Value Market Share by Country (2020-2031)

Figure 43. Germany Long-Range Automotive Semi-Solid Battery Pack Consumption

Value (2020-2031) & (USD Million)

Figure 44. France Long-Range Automotive Semi-Solid Battery Pack Consumption

Value (2020-2031) & (USD Million)

Figure 45. United Kingdom Long-Range Automotive Semi-Solid Battery Pack

Consumption Value (2020-2031) & (USD Million)

Figure 46. Russia Long-Range Automotive Semi-Solid Battery Pack Consumption Value

(2020-2031) & (USD Million)

Figure 47. Italy Long-Range Automotive Semi-Solid Battery Pack Consumption Value

(2020-2031) & (USD Million)

Figure 48. Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Sales Quantity

Market Share by Type (2020-2031)

Figure 49. Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Sales Quantity

Market Share by Application (2020-2031)

Figure 50. Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Sales Quantity

Market Share by Region (2020-2031)

Figure 51. Asia-Pacific Long-Range Automotive Semi-Solid Battery Pack Consumption

Value Market Share by Region (2020-2031)

Figure 52. China Long-Range Automotive Semi-Solid Battery Pack Consumption Value

(2020-2031) & (USD Million)

Figure 53. Japan Long-Range Automotive Semi-Solid Battery Pack Consumption Value

(2020-2031) & (USD Million)

Figure 54. South Korea Long-Range Automotive Semi-Solid Battery Pack Consumption

Value (2020-2031) & (USD Million)

Figure 55. India Long-Range Automotive Semi-Solid Battery Pack Consumption Value

(2020-2031) & (USD Million)

Figure 56. Southeast Asia Long-Range Automotive Semi-Solid Battery Pack

Consumption Value (2020-2031) & (USD Million)

Figure 57. Australia Long-Range Automotive Semi-Solid Battery Pack Consumption

Value (2020-2031) & (USD Million)

Figure 58. South America Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity Market Share by Type (2020-2031)

Figure 59. South America Long-Range Automotive Semi-Solid Battery Pack Sales

Quantity Market Share by Application (2020-2031)

Figure 60. South America Long-Range Automotive Semi-Solid Battery Pack Sales Quantity Market Share by Country (2020-2031)

Figure 61. South America Long-Range Automotive Semi-Solid Battery Pack Consumption Value Market Share by Country (2020-2031)

Figure 62. Brazil Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031) & (USD Million)

Figure 63. Argentina Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031) & (USD Million)

Figure 64. Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack Sales Quantity Market Share by Type (2020-2031)

Figure 65. Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack Sales Quantity Market Share by Application (2020-2031)

Figure 66. Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack Sales Quantity Market Share by Country (2020-2031)

Figure 67. Middle East & Africa Long-Range Automotive Semi-Solid Battery Pack Consumption Value Market Share by Country (2020-2031)

Figure 68. Turkey Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031) & (USD Million)

Figure 69. Egypt Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031) & (USD Million)

Figure 70. Saudi Arabia Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031) & (USD Million)

Figure 71. South Africa Long-Range Automotive Semi-Solid Battery Pack Consumption Value (2020-2031) & (USD Million)

Figure 72. Long-Range Automotive Semi-Solid Battery Pack Market Drivers

Figure 73. Long-Range Automotive Semi-Solid Battery Pack Market Restraints

Figure 74. Long-Range Automotive Semi-Solid Battery Pack Market Trends

Figure 75. Porters Five Forces Analysis

Figure 76. Manufacturing Cost Structure Analysis of Long-Range Automotive Semi-Solid Battery Pack in 2024

Figure 77. Manufacturing Process Analysis of Long-Range Automotive Semi-Solid Battery Pack

Figure 78. Long-Range Automotive Semi-Solid Battery Pack 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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