

Global All-Solid-State Battery Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G274E32A720EN.html>

Date: January 2024

Pages: 136

Price: US\$ 3,480.00 (Single User License)

ID: G274E32A720EN

Abstracts

According to our (Global Info Research) latest study, the global All-Solid-State Battery market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

Chemical energy storage, including lead acid batteries, nickel system batteries, and lithium ion batteries (LiBs), is considered to be the most promising energy storage technology for industrialization. Among these, LiBs have many advantages such as light weight, high energy density, high power density, and long life, and they are overwhelmingly preferred by designers for use in portable electronic devices such as cell phones and laptops. However, overcharging or short-circuiting can lead to high temperature and result in fire or explosion due to the presence of flammable organic electrolytes. Fires and explosions of LiBs have been reported throughout the world. The developments of electric vehicles (EVs) and large-scale energy storage devices for new kinds of power stations greatly expand the market for LiBs, meanwhile, stricter safety requirements apply to LiBs. Since large numbers of LiBs are packed together in EVs or power stations, fire or explosion in an LiB could be disastrous. Safety has become the main obstacle for the wide application of LiBs. To meet this issue, All-Solid-State Battery have entered the field. A solid state battery is composed mainly of cathode, anode, and solid electrolyte, as developed during the latter half of the 20th century. All-Solid-State Battery have a simpler structure than the traditional LiBs, and the simplified structure with a solid electrolyte enables higher energy density. Solid electrolytes not only conduct Li⁺ ions but also serve as the separator, as shown in Figure below. In All-Solid-State Battery, no organic liquid electrolyte, electrolyte salt, separator, or binder is required, which dramatically simplifies the assembly process. The operational principle of All-Solid-State Battery is no different from the traditional LiBs. In the charge process,

lithium ions deintercalate from the cathode material and transport to the anode through the electrolyte, while electrons drift to the anode by the external circuit. Lithium ions combine with electrons to form more complete lithium atoms. The discharge process is just the reverse.

Global All-Solid-State Battery key players include BMW, Hyundai, Dyson, Apple, CATL, etc. US, Japan and EU is the largest market, each with a share about 30%, followed by South Korea, with a share about 5 percent.

The Global Info Research report includes an overview of the development of the All-Solid-State Battery industry chain, the market status of Consumer Electronics (Polymer-Based All-Solid-State Battery, All-Solid-State Battery with Inorganic Solid Electrolytes), Electric Vehicle (Polymer-Based All-Solid-State Battery, All-Solid-State Battery with Inorganic Solid Electrolytes), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of All-Solid-State Battery.

Regionally, the report analyzes the All-Solid-State Battery markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global All-Solid-State Battery market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the All-Solid-State Battery market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the All-Solid-State Battery industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Wh), revenue generated, and market share of different by Type (e.g., Polymer-Based All-Solid-State Battery, All-Solid-State Battery with Inorganic Solid Electrolytes).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and

market dynamics. This analysis helps in understanding the key drivers and challenges influencing the All-Solid-State Battery market.

Regional Analysis: The report involves examining the All-Solid-State Battery market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the All-Solid-State Battery market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to All-Solid-State Battery:

Company Analysis: Report covers individual All-Solid-State Battery manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards All-Solid-State Battery. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer Electronics, Electric Vehicle).

Technology Analysis: Report covers specific technologies relevant to All-Solid-State Battery. It assesses the current state, advancements, and potential future developments in All-Solid-State Battery areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the All-Solid-State Battery market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

All-Solid-State Battery market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Polymer-Based All-Solid-State Battery

All-Solid-State Battery with Inorganic Solid Electrolytes

Market segment by Application

Consumer Electronics

Electric Vehicle

Aerospace

Others

Major players covered

BMW

Hyundai

Dyson

Apple

CATL

Bollor?

Toyota

Panasonic

Jiawei

Bosch

Quantum Scape

Ilika

Excellatron Solid State

Cymbet

Solid Power

Mitsui Kinzoku

Samsung

ProLogium

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 All-Solid-State Battery product scope, market overview, market

estimation caveats and base year.

Chapter 2, to profile the top manufacturers of All-Solid-State Battery, with price, sales, revenue and global market share of All-Solid-State Battery from 2019 to 2024.

Chapter 3, the All-Solid-State Battery competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the All-Solid-State Battery breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and All-Solid-State Battery market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 All-Solid-State Battery.

Chapter 14 and 15, to describe All-Solid-State Battery sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of All-Solid-State Battery
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
 - 1.3.1 Overview: Global All-Solid-State Battery Consumption Value by Type: 2019 Versus 2023 Versus 2030
 - 1.3.2 Polymer-Based All-Solid-State Battery
 - 1.3.3 All-Solid-State Battery with Inorganic Solid Electrolytes
- 1.4 Market Analysis by Application
 - 1.4.1 Overview: Global All-Solid-State Battery Consumption Value by Application: 2019 Versus 2023 Versus 2030
 - 1.4.2 Consumer Electronics
 - 1.4.3 Electric Vehicle
 - 1.4.4 Aerospace
 - 1.4.5 Others
- 1.5 Global All-Solid-State Battery Market Size & Forecast
 - 1.5.1 Global All-Solid-State Battery Consumption Value (2019 & 2023 & 2030)
 - 1.5.2 Global All-Solid-State Battery Sales Quantity (2019-2030)
 - 1.5.3 Global All-Solid-State Battery Average Price (2019-2030)

2 MANUFACTURERS PROFILES

- 2.1 BMW
 - 2.1.1 BMW Details
 - 2.1.2 BMW Major Business
 - 2.1.3 BMW All-Solid-State Battery Product and Services
 - 2.1.4 BMW All-Solid-State Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.1.5 BMW Recent Developments/Updates
- 2.2 Hyundai
 - 2.2.1 Hyundai Details
 - 2.2.2 Hyundai Major Business
 - 2.2.3 Hyundai All-Solid-State Battery Product and Services
 - 2.2.4 Hyundai All-Solid-State Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.2.5 Hyundai Recent Developments/Updates

2.3 Dyson

2.3.1 Dyson Details

2.3.2 Dyson Major Business

2.3.3 Dyson All-Solid-State Battery Product and Services

2.3.4 Dyson All-Solid-State Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.3.5 Dyson Recent Developments/Updates

2.4 Apple

2.4.1 Apple Details

2.4.2 Apple Major Business

2.4.3 Apple All-Solid-State Battery Product and Services

2.4.4 Apple All-Solid-State Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.4.5 Apple Recent Developments/Updates

2.5 CATL

2.5.1 CATL Details

2.5.2 CATL Major Business

2.5.3 CATL All-Solid-State Battery Product and Services

2.5.4 CATL All-Solid-State Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.5.5 CATL Recent Developments/Updates

2.6 Bollor?

2.6.1 Bollor? Details

2.6.2 Bollor? Major Business

2.6.3 Bollor? All-Solid-State Battery Product and Services

2.6.4 Bollor? All-Solid-State Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.6.5 Bollor? Recent Developments/Updates

2.7 Toyota

2.7.1 Toyota Details

2.7.2 Toyota Major Business

2.7.3 Toyota All-Solid-State Battery Product and Services

2.7.4 Toyota All-Solid-State Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.7.5 Toyota Recent Developments/Updates

2.8 Panasonic

2.8.1 Panasonic Details

2.8.2 Panasonic Major Business

2.8.3 Panasonic All-Solid-State Battery Product and Services

2.8.4 Panasonic All-Solid-State Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.8.5 Panasonic Recent Developments/Updates

2.9 Jiawei

2.9.1 Jiawei Details

2.9.2 Jiawei Major Business

2.9.3 Jiawei All-Solid-State Battery Product and Services

2.9.4 Jiawei All-Solid-State Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.9.5 Jiawei Recent Developments/Updates

2.10 Bosch

2.10.1 Bosch Details

2.10.2 Bosch Major Business

2.10.3 Bosch All-Solid-State Battery Product and Services

2.10.4 Bosch All-Solid-State Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.10.5 Bosch Recent Developments/Updates

2.11 Quantum Scape

2.11.1 Quantum Scape Details

2.11.2 Quantum Scape Major Business

2.11.3 Quantum Scape All-Solid-State Battery Product and Services

2.11.4 Quantum Scape All-Solid-State Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.11.5 Quantum Scape Recent Developments/Updates

2.12 Ilika

2.12.1 Ilika Details

2.12.2 Ilika Major Business

2.12.3 Ilika All-Solid-State Battery Product and Services

2.12.4 Ilika All-Solid-State Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.12.5 Ilika Recent Developments/Updates

2.13 Excellatron Solid State

2.13.1 Excellatron Solid State Details

2.13.2 Excellatron Solid State Major Business

2.13.3 Excellatron Solid State All-Solid-State Battery Product and Services

2.13.4 Excellatron Solid State All-Solid-State Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.13.5 Excellatron Solid State Recent Developments/Updates

2.14 Cymbet

- 2.14.1 Cymbet Details
- 2.14.2 Cymbet Major Business
- 2.14.3 Cymbet All-Solid-State Battery Product and Services
- 2.14.4 Cymbet All-Solid-State Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.14.5 Cymbet Recent Developments/Updates
- 2.15 Solid Power
 - 2.15.1 Solid Power Details
 - 2.15.2 Solid Power Major Business
 - 2.15.3 Solid Power All-Solid-State Battery Product and Services
 - 2.15.4 Solid Power All-Solid-State Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.15.5 Solid Power Recent Developments/Updates
- 2.16 Mitsui Kinzoku
 - 2.16.1 Mitsui Kinzoku Details
 - 2.16.2 Mitsui Kinzoku Major Business
 - 2.16.3 Mitsui Kinzoku All-Solid-State Battery Product and Services
 - 2.16.4 Mitsui Kinzoku All-Solid-State Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.16.5 Mitsui Kinzoku Recent Developments/Updates
- 2.17 Samsung
 - 2.17.1 Samsung Details
 - 2.17.2 Samsung Major Business
 - 2.17.3 Samsung All-Solid-State Battery Product and Services
 - 2.17.4 Samsung All-Solid-State Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.17.5 Samsung Recent Developments/Updates
- 2.18 ProLogium
 - 2.18.1 ProLogium Details
 - 2.18.2 ProLogium Major Business
 - 2.18.3 ProLogium All-Solid-State Battery Product and Services
 - 2.18.4 ProLogium All-Solid-State Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.18.5 ProLogium Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: ALL-SOLID-STATE BATTERY BY MANUFACTURER

3.1 Global All-Solid-State Battery Sales Quantity by Manufacturer (2019-2024)

- 3.2 Global All-Solid-State Battery Revenue by Manufacturer (2019-2024)
- 3.3 Global All-Solid-State Battery Average Price by Manufacturer (2019-2024)
- 3.4 Market Share Analysis (2023)
 - 3.4.1 Producer Shipments of All-Solid-State Battery by Manufacturer Revenue (\$MM) and Market Share (%): 2023
 - 3.4.2 Top 3 All-Solid-State Battery Manufacturer Market Share in 2023
 - 3.4.2 Top 6 All-Solid-State Battery Manufacturer Market Share in 2023
- 3.5 All-Solid-State Battery Market: Overall Company Footprint Analysis
 - 3.5.1 All-Solid-State Battery Market: Region Footprint
 - 3.5.2 All-Solid-State Battery Market: Company Product Type Footprint
 - 3.5.3 All-Solid-State Battery 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 All-Solid-State Battery Market Size by Region
 - 4.1.1 Global All-Solid-State Battery Sales Quantity by Region (2019-2030)
 - 4.1.2 Global All-Solid-State Battery Consumption Value by Region (2019-2030)
 - 4.1.3 Global All-Solid-State Battery Average Price by Region (2019-2030)
- 4.2 North America All-Solid-State Battery Consumption Value (2019-2030)
- 4.3 Europe All-Solid-State Battery Consumption Value (2019-2030)
- 4.4 Asia-Pacific All-Solid-State Battery Consumption Value (2019-2030)
- 4.5 South America All-Solid-State Battery Consumption Value (2019-2030)
- 4.6 Middle East and Africa All-Solid-State Battery Consumption Value (2019-2030)

5 MARKET SEGMENT BY TYPE

- 5.1 Global All-Solid-State Battery Sales Quantity by Type (2019-2030)
- 5.2 Global All-Solid-State Battery Consumption Value by Type (2019-2030)
- 5.3 Global All-Solid-State Battery Average Price by Type (2019-2030)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global All-Solid-State Battery Sales Quantity by Application (2019-2030)
- 6.2 Global All-Solid-State Battery Consumption Value by Application (2019-2030)
- 6.3 Global All-Solid-State Battery Average Price by Application (2019-2030)

7 NORTH AMERICA

- 7.1 North America All-Solid-State Battery Sales Quantity by Type (2019-2030)
- 7.2 North America All-Solid-State Battery Sales Quantity by Application (2019-2030)
- 7.3 North America All-Solid-State Battery Market Size by Country
 - 7.3.1 North America All-Solid-State Battery Sales Quantity by Country (2019-2030)
 - 7.3.2 North America All-Solid-State Battery Consumption Value by Country (2019-2030)
 - 7.3.3 United States Market Size and Forecast (2019-2030)
 - 7.3.4 Canada Market Size and Forecast (2019-2030)
 - 7.3.5 Mexico Market Size and Forecast (2019-2030)

8 EUROPE

- 8.1 Europe All-Solid-State Battery Sales Quantity by Type (2019-2030)
- 8.2 Europe All-Solid-State Battery Sales Quantity by Application (2019-2030)
- 8.3 Europe All-Solid-State Battery Market Size by Country
 - 8.3.1 Europe All-Solid-State Battery Sales Quantity by Country (2019-2030)
 - 8.3.2 Europe All-Solid-State Battery Consumption Value by Country (2019-2030)
 - 8.3.3 Germany Market Size and Forecast (2019-2030)
 - 8.3.4 France Market Size and Forecast (2019-2030)
 - 8.3.5 United Kingdom Market Size and Forecast (2019-2030)
 - 8.3.6 Russia Market Size and Forecast (2019-2030)
 - 8.3.7 Italy Market Size and Forecast (2019-2030)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific All-Solid-State Battery Sales Quantity by Type (2019-2030)
- 9.2 Asia-Pacific All-Solid-State Battery Sales Quantity by Application (2019-2030)
- 9.3 Asia-Pacific All-Solid-State Battery Market Size by Region
 - 9.3.1 Asia-Pacific All-Solid-State Battery Sales Quantity by Region (2019-2030)
 - 9.3.2 Asia-Pacific All-Solid-State Battery Consumption Value by Region (2019-2030)
 - 9.3.3 China Market Size and Forecast (2019-2030)
 - 9.3.4 Japan Market Size and Forecast (2019-2030)
 - 9.3.5 Korea Market Size and Forecast (2019-2030)
 - 9.3.6 India Market Size and Forecast (2019-2030)
 - 9.3.7 Southeast Asia Market Size and Forecast (2019-2030)
 - 9.3.8 Australia Market Size and Forecast (2019-2030)

10 SOUTH AMERICA

- 10.1 South America All-Solid-State Battery Sales Quantity by Type (2019-2030)
- 10.2 South America All-Solid-State Battery Sales Quantity by Application (2019-2030)
- 10.3 South America All-Solid-State Battery Market Size by Country
 - 10.3.1 South America All-Solid-State Battery Sales Quantity by Country (2019-2030)
 - 10.3.2 South America All-Solid-State Battery Consumption Value by Country (2019-2030)
 - 10.3.3 Brazil Market Size and Forecast (2019-2030)
 - 10.3.4 Argentina Market Size and Forecast (2019-2030)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa All-Solid-State Battery Sales Quantity by Type (2019-2030)
- 11.2 Middle East & Africa All-Solid-State Battery Sales Quantity by Application (2019-2030)
- 11.3 Middle East & Africa All-Solid-State Battery Market Size by Country
 - 11.3.1 Middle East & Africa All-Solid-State Battery Sales Quantity by Country (2019-2030)
 - 11.3.2 Middle East & Africa All-Solid-State Battery Consumption Value by Country (2019-2030)
 - 11.3.3 Turkey Market Size and Forecast (2019-2030)
 - 11.3.4 Egypt Market Size and Forecast (2019-2030)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)
 - 11.3.6 South Africa Market Size and Forecast (2019-2030)

12 MARKET DYNAMICS

- 12.1 All-Solid-State Battery Market Drivers
- 12.2 All-Solid-State Battery Market Restraints
- 12.3 All-Solid-State Battery 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 All-Solid-State Battery and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of All-Solid-State Battery
- 13.3 All-Solid-State Battery Production Process
- 13.4 All-Solid-State Battery Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 All-Solid-State Battery Typical Distributors
- 14.3 All-Solid-State Battery 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 All-Solid-State Battery Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global All-Solid-State Battery Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. BMW Basic Information, Manufacturing Base and Competitors

Table 4. BMW Major Business

Table 5. BMW All-Solid-State Battery Product and Services

Table 6. BMW All-Solid-State Battery Sales Quantity (K Wh), Average Price (USD/K Wh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. BMW Recent Developments/Updates

Table 8. Hyundai Basic Information, Manufacturing Base and Competitors

Table 9. Hyundai Major Business

Table 10. Hyundai All-Solid-State Battery Product and Services

Table 11. Hyundai All-Solid-State Battery Sales Quantity (K Wh), Average Price (USD/K Wh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Hyundai Recent Developments/Updates

Table 13. Dyson Basic Information, Manufacturing Base and Competitors

Table 14. Dyson Major Business

Table 15. Dyson All-Solid-State Battery Product and Services

Table 16. Dyson All-Solid-State Battery Sales Quantity (K Wh), Average Price (USD/K Wh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. Dyson Recent Developments/Updates

Table 18. Apple Basic Information, Manufacturing Base and Competitors

Table 19. Apple Major Business

Table 20. Apple All-Solid-State Battery Product and Services

Table 21. Apple All-Solid-State Battery Sales Quantity (K Wh), Average Price (USD/K Wh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Apple Recent Developments/Updates

Table 23. CATL Basic Information, Manufacturing Base and Competitors

Table 24. CATL Major Business

Table 25. CATL All-Solid-State Battery Product and Services

Table 26. CATL All-Solid-State Battery Sales Quantity (K Wh), Average Price (USD/K Wh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. CATL Recent Developments/Updates

Table 28. Bollor? Basic Information, Manufacturing Base and Competitors

Table 29. Bollor? Major Business

Table 30. Bollor? All-Solid-State Battery Product and Services

Table 31. Bollor? All-Solid-State Battery Sales Quantity (K Wh), Average Price (USD/K Wh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. Bollor? Recent Developments/Updates

Table 33. Toyota Basic Information, Manufacturing Base and Competitors

Table 34. Toyota Major Business

Table 35. Toyota All-Solid-State Battery Product and Services

Table 36. Toyota All-Solid-State Battery Sales Quantity (K Wh), Average Price (USD/K Wh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. Toyota Recent Developments/Updates

Table 38. Panasonic Basic Information, Manufacturing Base and Competitors

Table 39. Panasonic Major Business

Table 40. Panasonic All-Solid-State Battery Product and Services

Table 41. Panasonic All-Solid-State Battery Sales Quantity (K Wh), Average Price (USD/K Wh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 42. Panasonic Recent Developments/Updates

Table 43. Jiawei Basic Information, Manufacturing Base and Competitors

Table 44. Jiawei Major Business

Table 45. Jiawei All-Solid-State Battery Product and Services

Table 46. Jiawei All-Solid-State Battery Sales Quantity (K Wh), Average Price (USD/K Wh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 47. Jiawei Recent Developments/Updates

Table 48. Bosch Basic Information, Manufacturing Base and Competitors

Table 49. Bosch Major Business

Table 50. Bosch All-Solid-State Battery Product and Services

Table 51. Bosch All-Solid-State Battery Sales Quantity (K Wh), Average Price (USD/K Wh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 52. Bosch Recent Developments/Updates

Table 53. Quantum Scape Basic Information, Manufacturing Base and Competitors

Table 54. Quantum Scape Major Business

Table 55. Quantum Scape All-Solid-State Battery Product and Services

Table 56. Quantum Scape All-Solid-State Battery Sales Quantity (K Wh), Average Price (USD/K Wh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 57. Quantum Scape Recent Developments/Updates

Table 58. Ilika Basic Information, Manufacturing Base and Competitors

Table 59. Ilika Major Business

Table 60. Ilika All-Solid-State Battery Product and Services

Table 61. Ilika All-Solid-State Battery Sales Quantity (K Wh), Average Price (USD/K

Wh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 62. Ilika Recent Developments/Updates

Table 63. Excellatron Solid State Basic Information, Manufacturing Base and Competitors

Table 64. Excellatron Solid State Major Business

Table 65. Excellatron Solid State All-Solid-State Battery Product and Services

Table 66. Excellatron Solid State All-Solid-State Battery Sales Quantity (K Wh), Average Price (USD/K Wh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 67. Excellatron Solid State Recent Developments/Updates

Table 68. Cymbet Basic Information, Manufacturing Base and Competitors

Table 69. Cymbet Major Business

Table 70. Cymbet All-Solid-State Battery Product and Services

Table 71. Cymbet All-Solid-State Battery Sales Quantity (K Wh), Average Price (USD/K Wh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 72. Cymbet Recent Developments/Updates

Table 73. Solid Power Basic Information, Manufacturing Base and Competitors

Table 74. Solid Power Major Business

Table 75. Solid Power All-Solid-State Battery Product and Services

Table 76. Solid Power All-Solid-State Battery Sales Quantity (K Wh), Average Price (USD/K Wh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 77. Solid Power Recent Developments/Updates

Table 78. Mitsui Kinzoku Basic Information, Manufacturing Base and Competitors

Table 79. Mitsui Kinzoku Major Business

Table 80. Mitsui Kinzoku All-Solid-State Battery Product and Services

Table 81. Mitsui Kinzoku All-Solid-State Battery Sales Quantity (K Wh), Average Price (USD/K Wh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 82. Mitsui Kinzoku Recent Developments/Updates

Table 83. Samsung Basic Information, Manufacturing Base and Competitors

Table 84. Samsung Major Business

Table 85. Samsung All-Solid-State Battery Product and Services

Table 86. Samsung All-Solid-State Battery Sales Quantity (K Wh), Average Price (USD/K Wh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 87. Samsung Recent Developments/Updates

Table 88. ProLogium Basic Information, Manufacturing Base and Competitors

Table 89. ProLogium Major Business

Table 90. ProLogium All-Solid-State Battery Product and Services

Table 91. ProLogium All-Solid-State Battery Sales Quantity (K Wh), Average Price (USD/K Wh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

- Table 92. ProLogium Recent Developments/Updates
- Table 93. Global All-Solid-State Battery Sales Quantity by Manufacturer (2019-2024) & (K Wh)
- Table 94. Global All-Solid-State Battery Revenue by Manufacturer (2019-2024) & (USD Million)
- Table 95. Global All-Solid-State Battery Average Price by Manufacturer (2019-2024) & (USD/K Wh)
- Table 96. Market Position of Manufacturers in All-Solid-State Battery, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023
- Table 97. Head Office and All-Solid-State Battery Production Site of Key Manufacturer
- Table 98. All-Solid-State Battery Market: Company Product Type Footprint
- Table 99. All-Solid-State Battery Market: Company Product Application Footprint
- Table 100. All-Solid-State Battery New Market Entrants and Barriers to Market Entry
- Table 101. All-Solid-State Battery Mergers, Acquisition, Agreements, and Collaborations
- Table 102. Global All-Solid-State Battery Sales Quantity by Region (2019-2024) & (K Wh)
- Table 103. Global All-Solid-State Battery Sales Quantity by Region (2025-2030) & (K Wh)
- Table 104. Global All-Solid-State Battery Consumption Value by Region (2019-2024) & (USD Million)
- Table 105. Global All-Solid-State Battery Consumption Value by Region (2025-2030) & (USD Million)
- Table 106. Global All-Solid-State Battery Average Price by Region (2019-2024) & (USD/K Wh)
- Table 107. Global All-Solid-State Battery Average Price by Region (2025-2030) & (USD/K Wh)
- Table 108. Global All-Solid-State Battery Sales Quantity by Type (2019-2024) & (K Wh)
- Table 109. Global All-Solid-State Battery Sales Quantity by Type (2025-2030) & (K Wh)
- Table 110. Global All-Solid-State Battery Consumption Value by Type (2019-2024) & (USD Million)
- Table 111. Global All-Solid-State Battery Consumption Value by Type (2025-2030) & (USD Million)
- Table 112. Global All-Solid-State Battery Average Price by Type (2019-2024) & (USD/K Wh)
- Table 113. Global All-Solid-State Battery Average Price by Type (2025-2030) & (USD/K Wh)
- Table 114. Global All-Solid-State Battery Sales Quantity by Application (2019-2024) & (K Wh)
- Table 115. Global All-Solid-State Battery Sales Quantity by Application (2025-2030) &

(K Wh)

Table 116. Global All-Solid-State Battery Consumption Value by Application (2019-2024) & (USD Million)

Table 117. Global All-Solid-State Battery Consumption Value by Application (2025-2030) & (USD Million)

Table 118. Global All-Solid-State Battery Average Price by Application (2019-2024) & (USD/K Wh)

Table 119. Global All-Solid-State Battery Average Price by Application (2025-2030) & (USD/K Wh)

Table 120. North America All-Solid-State Battery Sales Quantity by Type (2019-2024) & (K Wh)

Table 121. North America All-Solid-State Battery Sales Quantity by Type (2025-2030) & (K Wh)

Table 122. North America All-Solid-State Battery Sales Quantity by Application (2019-2024) & (K Wh)

Table 123. North America All-Solid-State Battery Sales Quantity by Application (2025-2030) & (K Wh)

Table 124. North America All-Solid-State Battery Sales Quantity by Country (2019-2024) & (K Wh)

Table 125. North America All-Solid-State Battery Sales Quantity by Country (2025-2030) & (K Wh)

Table 126. North America All-Solid-State Battery Consumption Value by Country (2019-2024) & (USD Million)

Table 127. North America All-Solid-State Battery Consumption Value by Country (2025-2030) & (USD Million)

Table 128. Europe All-Solid-State Battery Sales Quantity by Type (2019-2024) & (K Wh)

Table 129. Europe All-Solid-State Battery Sales Quantity by Type (2025-2030) & (K Wh)

Table 130. Europe All-Solid-State Battery Sales Quantity by Application (2019-2024) & (K Wh)

Table 131. Europe All-Solid-State Battery Sales Quantity by Application (2025-2030) & (K Wh)

Table 132. Europe All-Solid-State Battery Sales Quantity by Country (2019-2024) & (K Wh)

Table 133. Europe All-Solid-State Battery Sales Quantity by Country (2025-2030) & (K Wh)

Table 134. Europe All-Solid-State Battery Consumption Value by Country (2019-2024) & (USD Million)

Table 135. Europe All-Solid-State Battery Consumption Value by Country (2025-2030) & (USD Million)

Table 136. Asia-Pacific All-Solid-State Battery Sales Quantity by Type (2019-2024) & (K Wh)

Table 137. Asia-Pacific All-Solid-State Battery Sales Quantity by Type (2025-2030) & (K Wh)

Table 138. Asia-Pacific All-Solid-State Battery Sales Quantity by Application (2019-2024) & (K Wh)

Table 139. Asia-Pacific All-Solid-State Battery Sales Quantity by Application (2025-2030) & (K Wh)

Table 140. Asia-Pacific All-Solid-State Battery Sales Quantity by Region (2019-2024) & (K Wh)

Table 141. Asia-Pacific All-Solid-State Battery Sales Quantity by Region (2025-2030) & (K Wh)

Table 142. Asia-Pacific All-Solid-State Battery Consumption Value by Region (2019-2024) & (USD Million)

Table 143. Asia-Pacific All-Solid-State Battery Consumption Value by Region (2025-2030) & (USD Million)

Table 144. South America All-Solid-State Battery Sales Quantity by Type (2019-2024) & (K Wh)

Table 145. South America All-Solid-State Battery Sales Quantity by Type (2025-2030) & (K Wh)

Table 146. South America All-Solid-State Battery Sales Quantity by Application (2019-2024) & (K Wh)

Table 147. South America All-Solid-State Battery Sales Quantity by Application (2025-2030) & (K Wh)

Table 148. South America All-Solid-State Battery Sales Quantity by Country (2019-2024) & (K Wh)

Table 149. South America All-Solid-State Battery Sales Quantity by Country (2025-2030) & (K Wh)

Table 150. South America All-Solid-State Battery Consumption Value by Country (2019-2024) & (USD Million)

Table 151. South America All-Solid-State Battery Consumption Value by Country (2025-2030) & (USD Million)

Table 152. Middle East & Africa All-Solid-State Battery Sales Quantity by Type (2019-2024) & (K Wh)

Table 153. Middle East & Africa All-Solid-State Battery Sales Quantity by Type (2025-2030) & (K Wh)

Table 154. Middle East & Africa All-Solid-State Battery Sales Quantity by Application (2019-2024) & (K Wh)

Table 155. Middle East & Africa All-Solid-State Battery Sales Quantity by Application

(2025-2030) & (K Wh)

Table 156. Middle East & Africa All-Solid-State Battery Sales Quantity by Region

(2019-2024) & (K Wh)

Table 157. Middle East & Africa All-Solid-State Battery Sales Quantity by Region

(2025-2030) & (K Wh)

Table 158. Middle East & Africa All-Solid-State Battery Consumption Value by Region

(2019-2024) & (USD Million)

Table 159. Middle East & Africa All-Solid-State Battery Consumption Value by Region

(2025-2030) & (USD Million)

Table 160. All-Solid-State Battery Raw Material

Table 161. Key Manufacturers of All-Solid-State Battery Raw Materials

Table 162. All-Solid-State Battery Typical Distributors

Table 163. All-Solid-State Battery Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. All-Solid-State Battery Picture

Figure 2. Global All-Solid-State Battery Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global All-Solid-State Battery Consumption Value Market Share by Type in 2023

Figure 4. Polymer-Based All-Solid-State Battery Examples

Figure 5. All-Solid-State Battery with Inorganic Solid Electrolytes Examples

Figure 6. Global All-Solid-State Battery Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 7. Global All-Solid-State Battery Consumption Value Market Share by Application in 2023

Figure 8. Consumer Electronics Examples

Figure 9. Electric Vehicle Examples

Figure 10. Aerospace Examples

Figure 11. Others Examples

Figure 12. Global All-Solid-State Battery Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 13. Global All-Solid-State Battery Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 14. Global All-Solid-State Battery Sales Quantity (2019-2030) & (K Wh)

Figure 15. Global All-Solid-State Battery Average Price (2019-2030) & (USD/K Wh)

Figure 16. Global All-Solid-State Battery Sales Quantity Market Share by Manufacturer in 2023

Figure 17. Global All-Solid-State Battery Consumption Value Market Share by Manufacturer in 2023

Figure 18. Producer Shipments of All-Solid-State Battery by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 19. Top 3 All-Solid-State Battery Manufacturer (Consumption Value) Market Share in 2023

Figure 20. Top 6 All-Solid-State Battery Manufacturer (Consumption Value) Market Share in 2023

Figure 21. Global All-Solid-State Battery Sales Quantity Market Share by Region (2019-2030)

Figure 22. Global All-Solid-State Battery Consumption Value Market Share by Region (2019-2030)

Figure 23. North America All-Solid-State Battery Consumption Value (2019-2030) & (USD Million)

Figure 24. Europe All-Solid-State Battery Consumption Value (2019-2030) & (USD Million)

Figure 25. Asia-Pacific All-Solid-State Battery Consumption Value (2019-2030) & (USD Million)

Figure 26. South America All-Solid-State Battery Consumption Value (2019-2030) & (USD Million)

Figure 27. Middle East & Africa All-Solid-State Battery Consumption Value (2019-2030) & (USD Million)

Figure 28. Global All-Solid-State Battery Sales Quantity Market Share by Type (2019-2030)

Figure 29. Global All-Solid-State Battery Consumption Value Market Share by Type (2019-2030)

Figure 30. Global All-Solid-State Battery Average Price by Type (2019-2030) & (USD/K Wh)

Figure 31. Global All-Solid-State Battery Sales Quantity Market Share by Application (2019-2030)

Figure 32. Global All-Solid-State Battery Consumption Value Market Share by Application (2019-2030)

Figure 33. Global All-Solid-State Battery Average Price by Application (2019-2030) & (USD/K Wh)

Figure 34. North America All-Solid-State Battery Sales Quantity Market Share by Type (2019-2030)

Figure 35. North America All-Solid-State Battery Sales Quantity Market Share by Application (2019-2030)

Figure 36. North America All-Solid-State Battery Sales Quantity Market Share by Country (2019-2030)

Figure 37. North America All-Solid-State Battery Consumption Value Market Share by Country (2019-2030)

Figure 38. United States All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 39. Canada All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 40. Mexico All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Europe All-Solid-State Battery Sales Quantity Market Share by Type (2019-2030)

Figure 42. Europe All-Solid-State Battery Sales Quantity Market Share by Application

(2019-2030)

Figure 43. Europe All-Solid-State Battery Sales Quantity Market Share by Country (2019-2030)

Figure 44. Europe All-Solid-State Battery Consumption Value Market Share by Country (2019-2030)

Figure 45. Germany All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 46. France All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 47. United Kingdom All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. Russia All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 49. Italy All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 50. Asia-Pacific All-Solid-State Battery Sales Quantity Market Share by Type (2019-2030)

Figure 51. Asia-Pacific All-Solid-State Battery Sales Quantity Market Share by Application (2019-2030)

Figure 52. Asia-Pacific All-Solid-State Battery Sales Quantity Market Share by Region (2019-2030)

Figure 53. Asia-Pacific All-Solid-State Battery Consumption Value Market Share by Region (2019-2030)

Figure 54. China All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 55. Japan All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 56. Korea All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. India All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. Southeast Asia All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. Australia All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. South America All-Solid-State Battery Sales Quantity Market Share by Type (2019-2030)

Figure 61. South America All-Solid-State Battery Sales Quantity Market Share by Application (2019-2030)

Figure 62. South America All-Solid-State Battery Sales Quantity Market Share by Country (2019-2030)

Figure 63. South America All-Solid-State Battery Consumption Value Market Share by Country (2019-2030)

Figure 64. Brazil All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 65. Argentina All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 66. Middle East & Africa All-Solid-State Battery Sales Quantity Market Share by Type (2019-2030)

Figure 67. Middle East & Africa All-Solid-State Battery Sales Quantity Market Share by Application (2019-2030)

Figure 68. Middle East & Africa All-Solid-State Battery Sales Quantity Market Share by Region (2019-2030)

Figure 69. Middle East & Africa All-Solid-State Battery Consumption Value Market Share by Region (2019-2030)

Figure 70. Turkey All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 71. Egypt All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 72. Saudi Arabia All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. South Africa All-Solid-State Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 74. All-Solid-State Battery Market Drivers

Figure 75. All-Solid-State Battery Market Restraints

Figure 76. All-Solid-State Battery Market Trends

Figure 77. Porters Five Forces Analysis

Figure 78. Manufacturing Cost Structure Analysis of All-Solid-State Battery in 2023

Figure 79. Manufacturing Process Analysis of All-Solid-State Battery

Figure 80. All-Solid-State Battery Industrial Chain

Figure 81. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 82. Direct Channel Pros & Cons

Figure 83. Indirect Channel Pros & Cons

Figure 84. Methodology

Figure 85. Research Process and Data Source

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