

# 2018 Top 5 Solid State Batteries Players in North America, Europe, Asia-Pacific, South America, Middle East and Africa

<https://marketpublishers.com/r/268BB900D55EN.html>

Date: June 2018

Pages: 143

Price: US\$ 4,960.00 (Single User License)

ID: 268BB900D55EN

## Abstracts

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, solid state batteries 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. Solid state batteries 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<sup>+</sup> ions but also serve as the separator, as shown in Figure below. In solid state batteries, no organic liquid electrolyte, electrolyte salt, separator, or binder is required, which dramatically simplifies the assembly process. The operational principle of solid state batteries 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.

Although Solid State Batteries based on inorganic solid electrolytes have clearly demonstrated their great possibilities for electric vehicles and large-scale energy storage systems, further development is still required to improve their energy density, rate capability, and cycling stability, while ensuring excellent safety. Actually, they are still far from being commercialized for industrial applications, which require systematical studies and will be a complicated process.

Making Solid State Batteries usable outside the laboratory involves multiple factors such as solid electrolytes, electrodes, interface properties, and construction design. The high cost and very small production scale of solid state electrolytes with high ionic conductivity hinder the application of Solid State Batteries. Meanwhile, Solid State Batteries still suffer from inferior power density and poor cycle life, due to the high transfer resistance of lithium ions between the electrodes and solid electrolytes. Thus, at this stage, the direction for research exploring Solid State Batteries for commercial applications is to develop new cathodes based on the conversion reaction mechanism with low or even zero strain and energy levels well matched with the electrolytes. All of these together are expected to yield new material systems with high capacity. In addition, the use of lithium metal in anodes will be another thrust of Solid State Batteries development. Another is the design of novel SEs with high lithium-ion conductivity at room temperature and wide electrochemical window. Meanwhile, future SEs should show excellent chemical stability in the presence of metallic lithium. Also, new methods should be proposed to reduce the interfacial resistance between the electrode and electrolyte. Finally, the optimal combination of different fabrication processes and equipment automation as well as device design are necessary for the realization of Solid State Batteries with high capacity, low cost, and high yield.

In summary, scientific and technical research on Solid State Batteries is progressing gradually. The current achievements indicate that Solid State Batteries with high energy density are promising candidates for large-scale energy storage and even electric vehicle applications

Over the next five years, LPI(LP Information) projects that Solid State Batteries will register a xx% CAGR in terms of revenue, reach US\$ xx million by 2023, from US\$ xx million in 2017.

This report studies the global market, especially in North America, Europe, Asia-Pacific, South America, Middle East and Africa, focuses on the top 5 players in each region, with sales, price, revenue and market share from 2013 to 2018, the top players:

BMW

Hyundai

Dyson

Apple

CATL

Bolloré

Toyota

Panasonic

Jiawei

Bosch

Quantum Scape

Iluka

Excellatron Solid State

Cymbet

Solid Power

Mitsui Kinzoku

Samsung

ProLogium

Market Segment by Regions, this report splits Global into several key Regions, with sales, revenue, market share of top players in these regions, from 2013 to 2018 (forecast), like

North America (United States, Canada and Mexico)

Asia-Pacific (China, Japan, Southeast Asia, India and Korea)

Europe (Germany, UK, France, Italy and Russia etc.)

South America (Brazil, Chile, Peru and Argentina)

Middle East and Africa (Egypt, South Africa, Saudi Arabia)

Split by Product Types, with sales, revenue, price, market share of each type, can be divided into

Polymer-Based Solid State Batteries

Solid State Batteries with Inorganic Solid Electrolytes

Split by applications, this report focuses on sales, market share and growth rate in each application, can be divided into

Home Consumers

Health Clubs / Gym

Hotel Gym

Medical Centers / Hospitals

Others

## Contents

### **1 SOLID STATE BATTERIES MARKET OVERVIEW**

- 1.1 Product Overview and Scope of Solid State Batteries
- 1.2 Solid State Batteries Segment by Types
  - 1.2.1 Global Sales Market Share of Solid State Batteries by Types in 2017
  - 1.2.2 Polymer-Based Solid State Batteries
    - 1.2.2.1 Major Players of Type I
  - 1.2.3 Solid State Batteries with Inorganic Solid Electrolytes
    - 1.2.3.1 Major Players of Solid State Batteries with Inorganic Solid Electrolytes
- 1.3 Solid State Batteries Segment by Applications
  - 1.3.1 Solid State Batteries Sales Market Share by Applications in 2017
  - 1.3.2 Home Consumers
  - 1.3.3 Health Clubs / Gym
  - 1.3.4 Hotel Gym
  - 1.3.5 Medical Centers / Hospitals
  - 1.3.6 Others
- 1.4 Solid State Batteries Market by Regions
  - 1.4.1 North America Status and Prospect (2013-2023)
    - 1.4.1.1 North America Solid State Batteries Revenue (Million USD) and Growth Rate (2013-2023)
  - 1.4.2 Asia-Pacific Status and Prospect (2013-2023)
    - 1.4.2.1 Asia-Pacific Solid State Batteries Revenue (Million USD) and Growth Rate (2013-2023)
  - 1.4.3 Europe Status and Prospect (2013-2023)
    - 1.4.3.1 Europe Solid State Batteries Revenue (Million USD) and Growth Rate (2013-2023)
  - 1.4.4 South America Status and Prospect (2013-2023)
    - 1.4.4.1 South America Solid State Batteries Revenue (Million USD) and Growth Rate (2013-2023)
  - 1.4.5 Middle East and Africa Status and Prospect (2013-2023)
    - 1.4.5.1 Middle East and Africa Solid State Batteries Revenue (Million USD) and Growth Rate (2013-2023)
- 1.5 Global Market Size (Value) of Solid State Batteries (2013-2023)

### **2 GLOBAL SOLID STATE BATTERIES SALES, REVENUE (VALUE) AND MARKET SHARE BY PLAYERS**

## 2.1 Global Solid State Batteries Sales and Market Share by Players in 2016 and 2017

### 2.1.1 Global Solid State Batteries Sales by Players in 2016 and 2017

### 2.1.2 Global Solid State Batteries Sales Market Share (%) by Players in 2016 and 2017

## 2.2 Global Solid State Batteries Revenue and Market Share by Players in 2016 and 2017

### 2.2.1 Global Solid State Batteries Revenue by Players in 2016 and 2017

### 2.2.2 Global Solid State Batteries Revenue Market Share (%) by Players in 2016 and 2017

## 2.3 Global Solid State Batteries Average Price by Players in 2016 and 2017

## 2.4 Global Solid State Batteries Manufacturing Base Distribution, Sales Area, Product Types by Players

### 2.4.1 Global Solid State Batteries Manufacturing Base Distribution and Sales Area by Players

### 2.4.2 Players Solid State Batteries Product Types

## 2.5 Solid State Batteries Market Competitive Situation and Trends

### 2.5.1 Solid State Batteries Market Concentration Rate

### 2.5.2 Solid State Batteries Market Share of Top 3 and Top 5 Players

### 2.5.3 Mergers & Acquisitions, Expansion

## **3 GLOBAL SOLID STATE BATTERIES SALES, REVENUE (VALUE) BY REGIONS, TYPE AND APPLICATION (2013-2018)**

### 3.1 Global Solid State Batteries Sales, Revenue and Market Share by Regions (2013-2018)

#### 3.1.1 Global Solid State Batteries Sales and Market Share by Regions (2013-2018)

#### 3.1.2 Global Solid State Batteries Revenue and Market Share by Regions (2013-2018)

### 3.2 Global Solid State Batteries Sales, Revenue, Market Share and Price by Type (2013-2018)

#### 3.2.1 Global Solid State Batteries Sales and Market Share by Type (2013-2018)

#### 3.2.2 Global Solid State Batteries Revenue and Market Share by Type (2013-2018)

#### 3.2.3 Global Solid State Batteries Price by Type (2013-2018)

### 3.3 Global Solid State Batteries Sales and Market Share by Application (2013-2018)

#### 3.3.1 Global Solid State Batteries Sales by Application (2013-2018)

#### 3.3.2 Global Solid State Batteries Sales Market Share by Application (2013-2018)

### 3.4 Global Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)

## **4 NORTH AMERICA TOP 5 PLAYERS SOLID STATE BATTERIES SALES, REVENUE AND PRICE**

#### 4.1 North America Top 5 Players Solid State Batteries Sales, Revenue and Market Share in 2016 and 2017

4.1.1 North America Top 5 Players Solid State Batteries Sales and Market Share in 2016 and 2017

4.1.2 North America Top 5 Players Solid State Batteries Revenue and Market Share in 2016 and 2017

#### 4.2 North America Solid State Batteries Sales, Revenue, Market Share and Price by Type (2013-2018)

4.2.1 North America Solid State Batteries Sales and Market Share by Type (2013-2018)

4.2.1.1 North America Solid State Batteries Sales by Type (2013-2018)

4.2.1.2 North America Solid State Batteries Sales Market Share by Type (2013-2018)

4.2.2 North America Solid State Batteries Revenue and Market Share by Type (2013-2018)

4.2.2.1 North America Solid State Batteries Revenue by Type (2013-2018)

4.2.2.2 North America Solid State Batteries Revenue Market Share by Type (2013-2018)

4.2.3 North America Solid State Batteries Price by Type (2013-2018)

#### 4.3 North America Solid State Batteries Sales and Market Share by Application (2013-2018)

4.3.1 North America Solid State Batteries Sales by Application (2013-2018)

4.3.2 North America Solid State Batteries Sales Market Share by Application (2013-2018)

#### 4.4 North America Solid State Batteries Sales and Market Share by Country (US, Canada and Mexico) (2013-2018)

4.4.1 North America Solid State Batteries Sales by Country (2013-2018)

4.4.2 North America Solid State Batteries Sales Market Share by Country (2013-2018)

#### 4.5 North America Solid State Batteries Import & Export (2013-2018)

### **5 EUROPE TOP 5 PLAYERS SOLID STATE BATTERIES SALES, REVENUE AND PRICE**

#### 5.1 Europe Top 5 Players Solid State Batteries Sales, Revenue and Market Share in 2016 and 2017

5.1.1 Europe Top 5 Players Solid State Batteries Sales and Market Share in 2016 and 2017

5.1.2 Europe Top 5 Players Solid State Batteries Revenue and Market Share in 2016 and 2017



## 5.2 Europe Solid State Batteries Sales, Revenue, Market Share and Price by Type (2013-2018)

### 5.2.1 Europe Solid State Batteries Sales and Market Share by Type (2013-2018)

#### 5.2.1.1 Europe Solid State Batteries Sales by Type (2013-2018)

#### 5.2.1.2 Europe Solid State Batteries Sales Market Share by Type (2013-2018)

### 5.2.2 Europe Solid State Batteries Revenue and Market Share by Type (2013-2018)

#### 5.2.2.1 Europe Solid State Batteries Revenue by Type (2013-2018)

#### 5.2.2.2 Europe Solid State Batteries Revenue Market Share by Type (2013-2018)

### 5.2.3 Europe Solid State Batteries Price by Type (2013-2018)

## 5.3 Europe Solid State Batteries Sales and Market Share by Application (2013-2018)

### 5.3.1 Europe Solid State Batteries Sales by Application (2013-2018)

### 5.3.2 Europe Solid State Batteries Sales Market Share by Application (2013-2018)

## 5.4 Europe Solid State Batteries Sales and Market Share by Country (Germany, UK, France, Italy and Russia) (2013-2018)

### 5.4.1 Europe Solid State Batteries Sales by Country (2013-2018)

### 5.4.2 Europe Solid State Batteries Sales Market Share by Country (2013-2018)

## 5.5 Europe Solid State Batteries Import & Export (2013-2018)

## **6 ASIA-PACIFIC TOP 5 PLAYERS SOLID STATE BATTERIES SALES, REVENUE AND PRICE**

### 6.1 Asia-Pacific Top 5 Players Solid State Batteries Sales, Revenue and Market Share in 2016 and 2017

#### 6.1.1 Asia-Pacific Top 5 Players Solid State Batteries Sales and Market Share in 2016 and 2017

#### 6.1.2 Asia-Pacific Top 5 Players Solid State Batteries Revenue and Market Share in 2016 and 2017

### 6.2 Asia-Pacific Solid State Batteries Sales, Revenue, Market Share and Price by Type (2013-2018)

#### 6.2.1 Asia-Pacific Solid State Batteries Sales and Market Share by Type (2013-2018)

##### 6.2.1.1 Asia-Pacific Solid State Batteries Sales by Type (2013-2018)

##### 6.2.1.2 Asia-Pacific Solid State Batteries Sales Market Share by Type (2013-2018)

#### 6.2.2 Asia-Pacific Solid State Batteries Revenue and Market Share by Type (2013-2018)

#### 6.2.3 Asia-Pacific Solid State Batteries Price by Type (2013-2018)

### 6.3 Asia-Pacific Solid State Batteries Sales and Market Share by Application (2013-2018)

#### 6.3.1 Asia-Pacific Solid State Batteries Sales by Application (2013-2018)

#### 6.3.2 Asia-Pacific Solid State Batteries Sales Market Share by Application (2013-2018)



6.4 Asia-Pacific Solid State Batteries Sales and Market Share by Country (China, Japan, Southeast Asia, India, Korea and Australia) (2013-2018)

6.4.1 Asia-Pacific Solid State Batteries Sales by Country (2013-2018)

6.4.2 Asia-Pacific Solid State Batteries Sales Market Share by Country (2013-2018)

6.5 Asia-Pacific Solid State Batteries Import & Export (2013-2018)

## **7 SOUTH AMERICA TOP 5 PLAYERS SOLID STATE BATTERIES SALES, REVENUE AND PRICE**

7.1 South America Top 5 Players Solid State Batteries Sales, Revenue and Market Share in 2016 and 2017

7.1.1 South America Top 5 Players Solid State Batteries Sales and Market Share in 2016 and 2017

7.1.2 South America Top 5 Players Solid State Batteries Revenue and Market Share in 2016 and 2017

7.2 South America Solid State Batteries Sales, Revenue, Market Share and Price by Type (2013-2018)

7.2.1 South America Solid State Batteries Sales and Market Share by Type (2013-2018)

7.2.1.1 South America Solid State Batteries Sales by Type (2013-2018)

7.2.1.2 South America Solid State Batteries Sales Market Share by Type (2013-2018)

7.2.2 South America Solid State Batteries Revenue and Market Share by Type (2013-2018)

7.2.2.1 South America Solid State Batteries Revenue by Type (2013-2018)

7.2.2.2 South America Solid State Batteries Revenue and Market Share by Type (2013-2018)

7.2.3 South America Solid State Batteries Price by Type (2013-2018)

7.3 South America Solid State Batteries Sales and Market Share by Application (2013-2018)

7.3.1 South America Solid State Batteries Sales by Application (2013-2018)

7.3.2 South America Solid State Batteries Sales Market Share by Application (2013-2018)

7.4 South America Solid State Batteries Sales and Market Share by Country (Brazil, Argentina, Chile and Peru) (2013-2018)

7.4.1 South America Solid State Batteries Sales by Country (2013-2018)

7.4.2 South America Solid State Batteries Sales Market Share by Country (2013-2018)

7.5 South America Solid State Batteries Import & Export (2013-2018)

## **8 MIDDLE EAST & AFRICA TOP 5 PLAYERS SOLID STATE BATTERIES SALES,**

## **REVENUE AND PRICE**

8.1 Middle East & Africa Top 5 Players Solid State Batteries Sales, Revenue and Market Share in 2016 and 2017

8.1.1 Middle East & Africa Top 5 Players Solid State Batteries Sales and Market Share in 2016 and 2017

8.1.2 Middle East & Africa Top 5 Players Solid State Batteries Revenue and Market Share in 2016 and 2017

8.2 Middle East & Africa Solid State Batteries Sales, Revenue, Market Share and Price by Type (2013-2018)

8.2.1 Middle East & Africa Solid State Batteries Sales and Market Share by Type (2013-2018)

8.2.1.1 Middle East & Africa Solid State Batteries Sales by Type (2013-2018)

8.2.1.2 Middle East & Africa Solid State Batteries Sales Market Share by Type (2013-2018)

8.2.2 Middle East & Africa Solid State Batteries Revenue and Market Share by Type (2013-2018)

8.2.2.1 Middle East & Africa Solid State Batteries Revenue by Type (2013-2018)

8.2.2.2 Middle East & Africa Solid State Batteries Revenue Market Share by Type (2013-2018)

8.2.3 Middle East & Africa Solid State Batteries Price by Type (2013-2018)

8.3 Middle East & Africa Solid State Batteries Sales and Market Share by Application (2013-2018)

8.3.1 Middle East & Africa Solid State Batteries Sales by Application (2013-2018)

8.3.2 Middle East & Africa Solid State Batteries Sales Market Share by Application (2013-2018)

8.4 Middle East & Africa Solid State Batteries Sales and Market Share by Country (Egypt, Saudi Arabia, South Africa and Iran) (2013-2018)

8.4.1 Middle East & Africa Solid State Batteries Sales by Country (2013-2018)

8.4.2 Middle East & Africa Solid State Batteries Sales Market Share by Country (2013-2018)

8.5 Middle East & Africa Solid State Batteries Import & Export (2013-2018)

## **9 GLOBAL SOLID STATE BATTERIES PLAYERS PROFILES/ANALYSIS**

9.1 BMW

9.1.1 Company Basic Information, Manufacturing Base, Sales Area and Its Competitors

9.1.2 Solid State Batteries Product Types, Application and Specification

- 9.1.2.1 Product A
- 9.1.2.2 Product B
- 9.1.3 BMW Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)
- 9.1.4 Main Business/Business Overview
- 9.1.5 BMW News
- 9.2 Hyundai
  - 9.2.1 Company Basic Information, Manufacturing Base, Sales Area and Its Competitors
  - 9.2.2 Solid State Batteries Product Types, Application and Specification
    - 9.2.2.1 Product A
    - 9.2.2.2 Product B
  - 9.2.3 Hyundai Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)
  - 9.2.4 Main Business/Business Overview
  - 9.2.5 Hyundai News
- 9.3 Dyson
  - 9.3.1 Company Basic Information, Manufacturing Base, Sales Area and Its Competitors
  - 9.3.2 Solid State Batteries Product Types, Application and Specification
    - 9.3.2.1 Product A
    - 9.3.2.2 Product B
  - 9.3.3 Dyson Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)
  - 9.3.4 Main Business/Business Overview
  - 9.3.5 Dyson News
- 9.4 Apple
  - 9.4.1 Company Basic Information, Manufacturing Base, Sales Area and Its Competitors
  - 9.4.2 Solid State Batteries Product Types, Application and Specification
    - 9.4.2.1 Product A
    - 9.4.2.2 Product B
  - 9.4.3 Apple Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)
  - 9.4.4 Main Business/Business Overview
  - 9.4.5 Apple News
- 9.5 CATL
  - 9.5.1 Company Basic Information, Manufacturing Base, Sales Area and Its Competitors
  - 9.5.2 Solid State Batteries Product Types, Application and Specification

- 9.5.2.1 Product A
- 9.5.2.2 Product B
- 9.5.3 CATL Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)
- 9.5.4 Main Business/Business Overview
- 9.5.5 CATL News
- 9.6 Bolloré
  - 9.6.1 Company Basic Information, Manufacturing Base, Sales Area and Its Competitors
  - 9.6.2 Solid State Batteries Product Types, Application and Specification
    - 9.6.2.1 Product A
    - 9.6.2.2 Product B
  - 9.6.3 Bolloré Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)
  - 9.6.4 Main Business/Business Overview
  - 9.6.5 Bolloré News
- 9.7 Toyota
  - 9.7.1 Company Basic Information, Manufacturing Base, Sales Area and Its Competitors
  - 9.7.2 Solid State Batteries Product Types, Application and Specification
    - 9.7.2.1 Product A
    - 9.7.2.2 Product B
  - 9.7.3 Toyota Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)
  - 9.7.4 Main Business/Business Overview
  - 9.7.5 Toyota News
- 9.8 Panasonic
  - 9.8.1 Company Basic Information, Manufacturing Base, Sales Area and Its Competitors
  - 9.8.2 Solid State Batteries Product Types, Application and Specification
    - 9.8.2.1 Product A
    - 9.8.2.2 Product B
  - 9.8.3 Panasonic Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)
  - 9.8.4 Main Business/Business Overview
  - 9.8.5 Panasonic News
- 9.9 Jiawei
  - 9.9.1 Company Basic Information, Manufacturing Base, Sales Area and Its Competitors

- 9.9.2 Solid State Batteries Product Types, Application and Specification
  - 9.9.2.1 Product A
  - 9.9.2.2 Product B
- 9.9.3 Jiawei Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)
- 9.9.4 Main Business/Business Overview
- 9.9.5 Jiawei News
- 9.10 Bosch
  - 9.10.1 Company Basic Information, Manufacturing Base, Sales Area and Its Competitors
  - 9.10.2 Solid State Batteries Product Types, Application and Specification
    - 9.10.2.1 Product A
    - 9.10.2.2 Product B
  - 9.10.3 Bosch Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)
  - 9.10.4 Main Business/Business Overview
  - 9.10.5 Bosch News
- 9.11 Quantum Scape
- 9.12 Ilika
- 9.13 Excellatron Solid State
- 9.14 Cymbet
- 9.15 Solid Power
- 9.16 Mitsui Kinzoku
- 9.17 Samsung
- 9.18 ProLogium

## **10 GLOBAL SOLID STATE BATTERIES MARKET FORECAST (2018-2023)**

- 10.1 Global Solid State Batteries Sales, Revenue Forecast (2018-2023)
- 10.2 Global Solid State Batteries Sales, Consumption Forecast by Regions (2018-2023)
  - 10.2.1 Global Solid State Batteries Sales Forecast by Regions (2018-2023)
  - 10.2.2 Global Solid State Batteries Sales Market Share Forecast by Regions (2018-2023)
- 10.3 Global Solid State Batteries Sales and Market Share Forecast by Type (2018-2023)
  - 10.3.1 Global Solid State Batteries Sales Forecast by Type (2018-2023)
  - 10.3.2 Global Solid State Batteries Sales Market Share Forecast by Type (2018-2023)
- 10.4 Global Solid State Batteries Sales and Market Share Forecast by Application (2018-2023)

- 10.4.1 Global Solid State Batteries Sales Forecast by Application (2018-2023)
- 10.4.2 Global Solid State Batteries Sales Market Share Forecast by Application (2018-2023)
- 10.5 Solid State Batteries Price Forecast (2018-2023)

## **11 SOLID STATE BATTERIES MANUFACTURING COST ANALYSIS**

- 11.1 Solid State Batteries Key Raw Materials Analysis
  - 11.1.1 Key Raw Materials
  - 11.1.2 Price Trend of Key Raw Materials
  - 11.1.3 Key Suppliers of Raw Materials
  - 11.1.4 Market Concentration Rate of Raw Materials
- 11.2 Proportion of Manufacturing Cost Structure
  - 11.2.1 Raw Materials
  - 11.2.2 Labor Cost
  - 11.2.3 Manufacturing Expenses
- 11.3 Manufacturing Process Analysis of Solid State Batteries

## **12 INDUSTRIAL CHAIN, SOURCING STRATEGY AND DOWNSTREAM BUYERS**

- 12.1 Solid State Batteries Industrial Chain Analysis
- 12.2 Upstream Raw Materials Sourcing
- 12.3 Raw Materials Sources of Solid State Batteries Major Players in 2017
- 12.4 Downstream Buyers

## **13 MARKETING STRATEGY ANALYSIS, DISTRIBUTORS/TRADERS**

- 13.1 Marketing Channel
  - 13.1.1 Direct Marketing
  - 13.1.2 Indirect Marketing
  - 13.1.3 Marketing Channel Development Trend
- 13.2 Market Positioning
  - 13.2.1 Pricing Strategy
  - 13.2.2 Brand Strategy
  - 13.2.3 Target Client
- 13.3 Distributors/Traders List

## **14 MARKET EFFECT FACTORS ANALYSIS**

## 14.1 Technology Progress/Risk

### 14.1.1 Substitutes Threat

### 14.1.2 Technology Progress in Related Industry

## 14.2 Consumer Needs/Customer Preference Change

## 14.3 Economic/Political Environmental Change

# 15 RESEARCH FINDINGS AND CONCLUSION

# 16 APPENDIX

## 16.1 Methodology

## 16.2 Data Source



## List Of Tables

### LIST OF TABLES AND FIGURES

Figure Picture of Solid State Batteries

Table Product Specifications of Solid State Batteries

Figure Global Sales Market Share of Solid State Batteries by Types in 2017

Figure Product Picture of Polymer-Based Solid State Batteries

Table Major Players of Polymer-Based Solid State Batteries

Figure Product Picture of Solid State Batteries with Inorganic Solid Electrolytes

Table Major Players of Solid State Batteries with Inorganic Solid Electrolytes

Figure Solid State Batteries Sales Market Share by Applications in 2017

Table Applications of Solid State Batteries

Figure Health Clubs / Gym Examples

Figure Hotel Gym Examples

Figure Medical Centers / Hospitals Examples

Figure Others Examples

Figure North America Solid State Batteries Revenue (Million USD) and Growth Rate (2013-2023)

Figure Asia-Pacific Solid State Batteries Revenue (Million USD) and Growth Rate (2013-2023)

Figure Europe Solid State Batteries Revenue (Million USD) and Growth Rate (2013-2023)

Figure South America Solid State Batteries Revenue (Million USD) and Growth Rate (2013-2023)

Figure Middle East and Africa Solid State Batteries Revenue (Million USD) and Growth Rate (2013-2023)

Figure Global Solid State Batteries Revenue (Million USD) and Growth Rate (2013-2023)

Table Global Solid State Batteries Sales by Players in 2016 and 2017

Table Global Solid State Batteries Sales Market Share (%) by Players in 2016 and 2017

Figure Global Solid State Batteries Sales Market Share by Players in 2016

Figure Global Solid State Batteries Sales Market Share by Players in 2017

Table Global Solid State Batteries Revenue by Players in 2016 and 2017

Table Global Solid State Batteries Revenue Market Share (%) by Players in 2016 and 2017

Figure Global Solid State Batteries Revenue Market Share by Players in 2016

Figure Global Solid State Batteries Revenue Market Share by Players in 2017

Table Global Solid State Batteries Average Price by Players in 2016 and 2017

Figure Global Solid State Batteries Average Price by Players in 2017

Table Global Solid State Batteries Manufacturing Base Distribution and Sales Area by Players

Table Players Solid State Batteries Product Types

Figure Solid State Batteries Market Share of Top 3 Players

Figure Solid State Batteries Market Share of Top 5 Players

Table Global Solid State Batteries Sales by Regions (2013-2018)

Table Global Solid State Batteries Sales Market Share by Regions (2013-2018)

Figure Global Solid State Batteries Sales Market Share by Regions (2013-2018)

Figure Global Solid State Batteries Sales Market Share by Regions in 2017

Table Global Solid State Batteries Revenue by Regions (2013-2018)

Table Global Solid State Batteries Revenue Market Share by Regions (2013-2018)

Figure Global Solid State Batteries Revenue Market Share by Regions (2013-2018)

Figure Global Solid State Batteries Revenue Market Share by Regions in 2017

Table Global Solid State Batteries Sales by Type (2013-2018)

Table Global Solid State Batteries Sales Market Share by Type (2013-2018)

Figure Global Solid State Batteries Sales Market Share by Type (2013-2018)

Figure Global Solid State Batteries Sales Market Share by Type in 2017

Table Global Solid State Batteries Revenue by Type (2013-2018)

Table Global Solid State Batteries Revenue Market Share by Type (2013-2018)

Figure Global Solid State Batteries Revenue Market Share by Type (2013-2018)

Figure Global Solid State Batteries Revenue Market Share by Type in 2017

Table Global Solid State Batteries Price by Type (2013-2018)

Table Global Solid State Batteries Sales by Application (2013-2018)

Figure Global Solid State Batteries Sales Market Share by Application in 2017

Table Global Solid State Batteries Sales Market Share by Application (2013-2018)

Figure Global Solid State Batteries Sales Market Share by Application (2013-2018)

Table Global Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)

Table North America Top 5 Players Solid State Batteries Sales in 2016 and 2017

Table North America Top 5 Players Solid State Batteries Sales Market Share (%) in 2016 and 2017

Figure North America Top 5 Players Solid State Batteries Sales Share in 2016

Figure North America Top 5 Players Solid State Batteries Sales Share in 2017

Table North America Top 5 Players Solid State Batteries Revenue in 2016 and 2017

Table North America Top 5 Players Solid State Batteries Revenue Market Share (%) in 2016 and 2017

Figure North America Top 5 Players Solid State Batteries Revenue Share in 2016

Figure North America Top 5 Players Solid State Batteries Revenue Share in 2017

Table North America Solid State Batteries Sales by Type (2013-2018)  
Figure 2017 North America Solid State Batteries Sales Market Share by Type  
Table North America Solid State Batteries Sales Market Share by Type (2013-2018)  
Figure North America Solid State Batteries Sales Market Share by Type (2013-2018)  
Table North America Solid State Batteries Revenue by Type (2013-2018)  
Figure North America Solid State Batteries Revenue Market Share by Type in 2017  
Table North America Solid State Batteries Revenue Market Share by Type (2013-2018)  
Figure North America Solid State Batteries Revenue Market Share by Type (2013-2018)  
Table North America Solid State Batteries Price by Type (2013-2018)  
Table North America Solid State Batteries Sales by Application (2013-2018)  
Figure North America Solid State Batteries Sales by Application in 2017  
Table North America Solid State Batteries Sales Market Share by Application (2013-2018)  
Figure North America Solid State Batteries Sales Market Share by Application (2013-2018)  
Table North America Solid State Batteries Sales by Country (2013-2018)  
Figure 2017 North America Solid State Batteries Sales Market Share by Country  
Table North America Solid State Batteries Sales Market Share by Country (2013-2018)  
Figure North America Solid State Batteries Sales Market Share by Country (2013-2018)  
Table North America Solid State Batteries Import & Export (2013-2018)  
Table Europe Top 5 Players Solid State Batteries Sales in 2016 and 2017  
Table Europe Top 5 Players Solid State Batteries Sales Market Share (%) in 2016 and 2017  
Figure Europe Top 5 Players Solid State Batteries Sales Share in 2016  
Figure Europe Top 5 Players Solid State Batteries Sales Share in 2017  
Table Europe Top 5 Players Solid State Batteries Revenue in 2016 and 2017  
Table Europe Top 5 Players Solid State Batteries Revenue Market Share (%) in 2016 and 2017  
Figure Europe Top 5 Players Solid State Batteries Revenue Share in 2016  
Figure Europe Top 5 Players Solid State Batteries Revenue Share in 2017  
Table Europe Solid State Batteries Sales by Type (2013-2018)  
Figure 2017 Europe Solid State Batteries Sales Market Share by Type  
Table Europe Solid State Batteries Sales Market Share by Type (2013-2018)  
Figure Europe Solid State Batteries Sales Market Share by Type (2013-2018)  
Table Europe Solid State Batteries Revenue by Type (2013-2018)  
Figure Europe Solid State Batteries Revenue Market Share by Type in 2017  
Table Europe Solid State Batteries Revenue Market Share by Type (2013-2018)  
Figure Europe Solid State Batteries Revenue Market Share by Type (2013-2018)  
Table Europe Solid State Batteries Price by Type (2013-2018)

Table Europe Solid State Batteries Sales by Application (2013-2018)  
Figure Europe Solid State Batteries Sales Market Share by Application in 2017  
Table Europe Solid State Batteries Sales Market Share by Application (2013-2018)  
Figure Europe Solid State Batteries Sales Market Share by Application (2013-2018)  
Table Europe Solid State Batteries Sales by Country (2013-2018)  
Figure Europe Solid State Batteries Sales Market Share by Country in 2017  
Table Europe Solid State Batteries Sales Market Share by Country (2013-2018)  
Figure Europe Solid State Batteries Sales Market Share by Country (2013-2018)  
Table Europe Solid State Batteries Import & Export (2013-2018)  
Table Asia-Pacific Top 5 Players Solid State Batteries Sales in 2016 and 2017  
Table Asia-Pacific Top 5 Players Solid State Batteries Sales Market Share (%) in 2016 and 2017  
Figure Asia-Pacific Top 5 Players Solid State Batteries Sales Share in 2016  
Figure Asia-Pacific Top 5 Players Solid State Batteries Sales Share in 2017  
Table Asia-Pacific Top 5 Players Solid State Batteries Revenue in 2016 and 2017  
Table Asia-Pacific Top 5 Players Solid State Batteries Revenue Market Share (%) in 2016 and 2017  
Figure Asia-Pacific Top 5 Players Solid State Batteries Revenue Share in 2016  
Figure Asia-Pacific Top 5 Players Solid State Batteries Revenue Share in 2017  
Table Asia-Pacific Solid State Batteries Sales by Type (2013-2018)  
Figure Asia-Pacific Solid State Batteries Sales Market Share by Type in 2017  
Table Asia-Pacific Solid State Batteries Sales Market Share by Type (2013-2018)  
Figure Asia-Pacific Solid State Batteries Sales Market Share by Type (2013-2018)  
Table Asia-Pacific Solid State Batteries Revenue by Type (2013-2018)  
Table Asia-Pacific Solid State Batteries Revenue Market Share by Type (2013-2018)  
Figure Asia-Pacific Solid State Batteries Revenue Market Share by Type (2013-2018)  
Figure Asia-Pacific Solid State Batteries Revenue Market Share by Type in 2017  
Table Asia-Pacific Solid State Batteries Price by Type (2013-2018)  
Table Asia-Pacific Solid State Batteries Sales by Application (2013-2018)  
Figure Asia-Pacific Solid State Batteries Sales by Application in 2017  
Table Asia-Pacific Solid State Batteries Sales Market Share by Application (2013-2018)  
Figure Asia-Pacific Solid State Batteries Sales Market Share by Application (2013-2018)  
Table Asia-Pacific Solid State Batteries Sales by Country (2013-2018)  
Figure Asia-Pacific Solid State Batteries Sales Market Share by Country in 2017  
Table Asia-Pacific Solid State Batteries Sales Market Share by Country (2013-2018)  
Figure Asia-Pacific Solid State Batteries Sales Market Share by Country (2013-2018)  
Table Asia-Pacific Solid State Batteries Import & Export (2013-2018)  
Table South America Top 5 Players Solid State Batteries Sales in 2016 and 2017  
Table South America Top 5 Players Solid State Batteries Sales Market Share (%) in

2016 and 2017

Figure South America Top 5 Players Solid State Batteries Sales Share in 2016

Figure South America Top 5 Players Solid State Batteries Sales Share in 2017

Table South America Top 5 Players Solid State Batteries Revenue in 2016 and 2017

Table South America Top 5 Players Solid State Batteries Revenue Market Share (%) in 2016 and 2017

Figure South America Top 5 Players Solid State Batteries Revenue Share in 2016

Figure South America Top 5 Players Solid State Batteries Revenue Share in 2017

Table South America Solid State Batteries Sales by Type (2013-2018)

Figure South America Solid State Batteries Sales by Type in 2017

Table South America Solid State Batteries Sales Market Share by Type (2013-2018)

Figure South America Solid State Batteries Sales Market Share by Type (2013-2018)

Table South America Solid State Batteries Revenue by Type (2013-2018)

Figure South America Solid State Batteries Revenue by Type in 2017

Table South America Solid State Batteries Revenue Market Share by Type (2013-2018)

Figure South America Solid State Batteries Revenue Market Share by Type (2013-2018)

Table South America Solid State Batteries Price by Type (2013-2018)

Table South America Solid State Batteries Sales by Application (2013-2018)

Figure South America Solid State Batteries Sales by Application in 2017

Table South America Solid State Batteries Sales Market Share by Application (2013-2018)

Figure South America Solid State Batteries Sales Market Share by Application (2013-2018)

Table South America Solid State Batteries Sales by Country (2013-2018)

Figure South America Solid State Batteries Sales by Country in 2017

Table South America Solid State Batteries Sales Market Share by Country (2013-2018)

Figure South America Solid State Batteries Sales Market Share by Country (2013-2018)

Table South America Solid State Batteries Import & Export (2013-2018)

Table Middle East & Africa Top 5 Players Solid State Batteries Sales in 2016 and 2017

Table Middle East & Africa Top 5 Players Solid State Batteries Sales Market Share (%) in 2016 and 2017

Figure Middle East & Africa Top 5 Players Solid State Batteries Sales Share in 2016

Figure Middle East & Africa Top 5 Players Solid State Batteries Sales Share in 2017

Table Middle East & Africa Top 5 Players Solid State Batteries Revenue in 2016 and 2017

Table Middle East & Africa Top 5 Players Solid State Batteries Revenue Market Share (%) in 2016 and 2017

Figure Middle East & Africa Top 5 Players Solid State Batteries Revenue Share in 2016



Figure Middle East & Africa Top 5 Players Solid State Batteries Revenue Share in 2017

Table Middle East & Africa Solid State Batteries Sales by Type (2013-2018)

Figure Middle East & Africa Solid State Batteries Sales by Type in 2017

Table Middle East & Africa Solid State Batteries Sales Market Share by Type (2013-2018)

Figure Middle East & Africa Solid State Batteries Sales Market Share by Type (2013-2018)

Table Middle East & Africa Solid State Batteries Revenue by Type (2013-2018)

Figure Middle East & Africa Solid State Batteries Revenue by Type in 2017

Table Middle East & Africa Solid State Batteries Revenue Market Share by Type (2013-2018)

Figure Middle East & Africa Solid State Batteries Revenue Market Share by Type (2013-2018)

Table Middle East & Africa Solid State Batteries Price by Type (2013-2018)

Table Middle East & Africa Solid State Batteries Sales by Application (2013-2018)

Figure Middle East & Africa Solid State Batteries Sales by Application in 2017

Table Middle East & Africa Solid State Batteries Sales Market Share by Application (2013-2018)

Figure Middle East & Africa Solid State Batteries Sales Market Share by Application (2013-2018)

Table Middle East & Africa Solid State Batteries Sales by Country (2013-2018)

Figure Middle East & Africa Solid State Batteries Sales by Country in 2017

Table Middle East & Africa Solid State Batteries Sales Market Share by Country (2013-2018)

Figure Middle East & Africa Solid State Batteries Sales Market Share by Country (2013-2018)

Figure BMW Solid State Batteries Market Share (2013-2018)

Table BMW Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table BMW Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)

Figure BMW Solid State Batteries Market Share (2013-2018)

Table Hyundai Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Hyundai Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)

Figure Hyundai Solid State Batteries Market Share (2013-2018)

Table Dyson Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Dyson Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)

Figure Dyson Solid State Batteries Market Share (2013-2018)

Table Apple Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Apple Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)

Figure Apple Solid State Batteries Market Share (2013-2018)

Table CATL Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table CATL Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)

Figure CATL Solid State Batteries Market Share (2013-2018)

Table Bolloré Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Bolloré Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)

Figure Bolloré Solid State Batteries Market Share (2013-2018)

Table Toyota Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Toyota Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)

Figure Toyota Solid State Batteries Market Share (2013-2018)

Table Panasonic Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Panasonic Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)

Figure Panasonic Solid State Batteries Market Share (2013-2018)

Table Jiawei Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Jiawei Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)

Figure Jiawei Solid State Batteries Market Share (2013-2018)

Table Bosch Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Bosch Solid State Batteries Sales, Revenue, Price and Gross Margin (2013-2018)

Figure Bosch Solid State Batteries Market Share (2013-2018)

Table Quantum Scape Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Ilika Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Excellatron Solid State Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Cymbet Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Solid Power Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Mitsui Kinzoku Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Samsung Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table ProLogium Basic Information, Manufacturing Base, Sales Area and Its Competitors



Figure Global Solid State Batteries Sales and Growth Rate Forecast (2018-2023)  
Figure Global Solid State Batteries Revenue and Growth Rate Forecast (2018-2023)  
Table Global Solid State Batteries Sales Forecast by Regions (2018-2023)  
Table Global Solid State Batteries Sales Market Share Forecast by Regions (2018-2023)  
Table Global Solid State Batteries Sales Forecast by Type (2018-2023)  
Table Global Solid State Batteries Sales Market Share Forecast by Type (2018-2023)  
Table Global Solid State Batteries Sales Forecast by Application (2018-2023)  
Table Global Solid State Batteries Sales Market Share Forecast by Application (2018-2023)  
Table Sales Base and Market Concentration Rate of Raw Material  
Figure Price Trend of Key Raw Materials  
Table Key Suppliers of Raw Materials  
Figure Manufacturing Cost Structure of Solid State Batteries  
Figure Manufacturing Process Analysis of Solid State Batteries  
Figure Solid State Batteries Industrial Chain Analysis  
Table Raw Materials Sources of Solid State Batteries Major Players in 2017  
Table Major Buyers of Solid State Batteries  
Table Distributors/Traders List

## I would like to order

Product name: 2018 Top 5 Solid State Batteries Players in North America, Europe, Asia-Pacific, South America, Middle East and Africa

Product link: <https://marketpublishers.com/r/268BB900D55EN.html>

Price: US\$ 4,960.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/268BB900D55EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

