

# Global Stacked Batteries Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Stacked Batteries market size was valued at US\$ 41919 million in 2025 and is forecast to a readjusted size of US\$ 73752 million by 2032 with a CAGR of 8.5% during review period.

Stacked batteries are a type of lithium-ion battery formed by alternately stacking multiple layers of positive and negative electrode sheets with a separator to create a cell; they are also called laminated batteries. Compared to wound batteries, stacked batteries have a structure similar to planar stacking, allowing for greater control over thickness and shape. Advantages of stacked batteries include high energy density, good heat dissipation, and flexible size, making them suitable for customized modules and compact designs. The positive electrode material (such as LiCoO<sub>2</sub>, NCM, LFP) and the negative electrode material (such as graphite, silicon-carbon composite) are separated by a separator. During charging and discharging, lithium ions migrate between the positive and negative electrodes, while electrons flow through the external circuit to complete energy output. The laminated structure reduces internal impedance, improving battery cycle efficiency and thermal management performance.

The upstream sector primarily includes raw material suppliers, such as suppliers of cathode materials (NCM, LFP, LiCoO<sub>2</sub>, etc.), anode materials (graphite, silicon-carbon composites), separators, electrolytes, and copper and aluminum foil, providing key raw materials for stacked battery production. The midstream sector comprises stacked battery manufacturers, who process raw materials into cells through electrode coating, slicing, stacking, electrolyte injection, and encapsulation processes, and then modularize and test them to create directly applicable stacked battery products. The downstream sector consists of battery application industries, including new energy

vehicles, consumer electronics, energy storage systems, and industrial equipment. These sectors select stacked batteries based on energy density, volume limitations, and heat dissipation requirements to provide power or energy storage support, thereby driving demand growth across the entire industry chain.

In 2025, global stacked battery sales reached 350 GW, with a production capacity of approximately 460 GW, an average selling price of \$102.5/kWh, and an average gross margin of 20%-30%.

The supply structure of stacked batteries is highly dependent on the overall global lithium battery industry chain. Upstream includes key battery raw materials (lithium, cathode materials, anode materials, separators, electrolytes, etc.), midstream involves cell manufacturing and stacking/laminated cell production, and downstream comprises OEMs, energy storage solution providers, and consumer electronics integrators. Global battery manufacturing capacity is highly concentrated, with China accounting for the vast majority of cell production capacity, followed by Japan, South Korea, and Europe, forming an integrated supply system from raw materials and equipment to cells.

Demand for stacked batteries primarily comes from new energy vehicle power batteries, energy storage systems, and high-end consumer electronics. As the requirements for electric vehicle range, energy density, and safety continue to increase, laminated structures are being adopted by more and more automakers due to their higher energy density, longer cycle life, and superior safety, especially in the application of long, thin blade cells and large-size square batteries. Furthermore, the global energy storage market is expanding rapidly, with both grid-side and enterprise/data center-side energy storage projects continuously releasing demand for high-voltage, high-capacity stacked batteries. These growth sources are becoming important forces driving the industry's expansion.

The core technology roadmap for stacked batteries revolves around the stacking process, with current mainstream technologies including traditional Z-type stacking, integrated cutting and stacking, thermal bonding stacking, and integrated roll-to-roll stacking. Integrated cutting and stacking technology has become the mainstream upgrade direction due to its high degree of integration and good interface consistency; thermal bonding technology shows significant potential in ensuring structural density and consistency; efficiency improvement is the core goal of current stacking technology development, and the industry is striving to increase stacking speed to narrow the gap with winding processes. The overall technological evolution trend is to improve stacking precision, yield, and the construction of high-speed automated production lines to meet

the demands of large-scale mass production.

This report is a detailed and comprehensive analysis for global Stacked Batteries 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 Stacked Batteries market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Stacked Batteries market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Stacked Batteries market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Stacked Batteries market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (US\$/KW), 2021-2026

#### The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Stacked Batteries
- 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 Stacked Batteries 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 CATL, BYD, LG Energy, Panasonic Energy, Samsung SDI, CALB, SK On, EVE Energy, Sunwoda, Gotion High-Tech, etc.

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

## Market Segmentation

Stacked Batteries market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

High Pressure

Low Pressure

### Market segment by Structural Form

Square

Soft-Pack

Blade

### Market segment by Rated Capacity

10-50Ah

50-200Ah

?200Ah

## Market segment by Application

New Energy Vehicles

Consumer Electronics

Industrial Energy Storage

Home Energy Storage

Other

## Major players covered

CATL

BYD

LG Energy

Panasonic Energy

Samsung SDI

CALB

SK On

EVE Energy

Sunwoda

Gotion High-Tech

SVOLT Energy

Farasis Energy

HaiChen

Enovix

QuantumScape

Northvolt

Saft

Manz AG

Solid Power

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 Stacked Batteries product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Stacked Batteries, with price, sales quantity, revenue, and global market share of Stacked Batteries from 2021 to 2026.

Chapter 3, the Stacked Batteries competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape

contrast.

Chapter 4, the Stacked Batteries breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Stacked Batteries market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Stacked Batteries.

Chapter 14 and 15, to describe Stacked Batteries sales channel, distributors, customers, research findings and conclusion.

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