

# Global Drone Solid-state Battery Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Drone Solid-state Battery market size is expected to reach \$ 1749 million by 2032, rising at a market growth of 63.5% CAGR during the forecast period (2026-2032). Solid-state batteries for drones refer to specialized power systems that use solid-state electrolytes instead of liquid electrolytes in traditional lithium-ion batteries. They achieve energy storage and release through a 'solid-state ion conduction-electrochemical reaction' mechanism, specifically designed for drone platforms to meet demands for lightweight design, long endurance, high safety, and adaptability to extreme environments. The industry's gross profit margin is approximately -10%.

The gross profit margin of the drone solid-state battery industry is significantly affected by technological maturity and the degree of scale. In the early stages of research and development, the preparation process of solid-state electrolyte materials (such as oxides and sulfides) is complex. Solid-state batteries are still a high-end, niche application in the drone field, mainly concentrated in high-end industrial, scientific research, or military fields with extreme requirements for safety and endurance. Upstream: This includes solid-state electrolyte materials (oxides/sulfides/polymers), positive and negative electrode materials (high-nickel ternary/silicon-carbon anodes), conductive additives, and encapsulation materials, etc. Solid-state electrolytes account for over 40% of the cost, and technological breakthroughs are key to cost reduction. Downstream: Targeting consumer-grade drones (aerial photography, entertainment), industrial-grade drones (logistics, surveying, inspection), and military drones (reconnaissance, strike), demand coexists with B-end clients (such as industry application service providers) and C-end consumers.

The main market drivers include the following:

Expanding drone applications drive demand for high-performance batteries: With the large-scale application of drones in logistics, agricultural plant protection, emergency

rescue, and geographic mapping, the requirements for flight time, operational stability, and environmental adaptability have significantly increased. Solid-state batteries, with their high energy density and low-temperature resistance, have become a core solution to overcome existing technological bottlenecks. For example, long-endurance mapping drones can cover a larger area in a single flight, reducing the cost of frequent battery swaps.

Stricter safety regulations drive battery technology upgrades: Many countries worldwide have introduced strict standards for drone battery safety (such as UN38.3 transport testing and nail penetration/overcharge test requirements). Traditional liquid batteries face usage restrictions due to leakage and fire risks. Solid-state batteries, through physical isolation of the positive and negative electrodes using a solid electrolyte, fundamentally reduce the risk of thermal runaway, becoming an inevitable choice for compliant development, especially in high-safety-requirement scenarios such as urban air mobility (UAM).

Upgraded consumer drone experience stimulates market potential: Consumers' pursuit of drone aerial image quality, flight stability, and portability drives product iteration. Solid-state batteries offer lightweight design, reducing fuselage weight and improving flight maneuverability; fast charging reduces user wait time, increasing user engagement. Furthermore, the high-end drone market's dual demands for 'flight time + safety' provide a differentiated competitive space for solid-state batteries.

This report studies the global Drone Solid-state Battery demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Drone Solid-state Battery, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Drone Solid-state Battery that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Drone Solid-state Battery total market, 2021-2032, (USD Million)

Global Drone Solid-state Battery total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Drone Solid-state Battery total market, key domestic companies, and share, (USD Million)

Global Drone Solid-state Battery revenue by player, revenue and market share 2021-2026, (USD Million)

Global Drone Solid-state Battery total market by Type, CAGR, 2021-2032, (USD Million)

Global Drone Solid-state Battery total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Drone Solid-state Battery market based

on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Enpower, inxtech, Lishen, Montavista, Hylis, Qingtao Energy, Gotion, Beijing Weilan New Energy Technology, Farasis Energy, Hangzhou Jinyu New Energy, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Drone Solid-state Battery market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Drone Solid-state Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Drone Solid-state Battery Market, Segmentation by Type:

Semi-solid

Fully Solid

### Global Drone Solid-state Battery Market, Segmentation by Product Forms:

Pack Batteries

Square Batteries

Cylindrical Batteries

### Global Drone Solid-state Battery Market, Segmentation by Technology:

Oxide Solid-State Batteries

Sulfide Solid-State Batteries

Polymer Solid-State Batteries

### Global Drone Solid-state Battery Market, Segmentation by Application:

Industrial

Commercial

Military

### **Companies Profiled:**

Enpower

inxtech

Lishen

Montavista

Hylic

Qingtao Energy

Gotion

Beijing Weilan New Energy Technology

Farasis Energy

Hangzhou Jinyu New Energy

CATL

Greater Bay Technology (GBT)

Shenzhen Grepow Battery

#### Key Questions Answered

1. How big is the global Drone Solid-state Battery market?
2. What is the demand of the global Drone Solid-state Battery market?
3. What is the year over year growth of the global Drone Solid-state Battery market?
4. What is the total value of the global Drone Solid-state Battery market?
5. Who are the Major Players in the global Drone Solid-state Battery market?
6. What are the growth factors driving the market demand?

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