

Global Drone Solid-state Battery Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Drone Solid-state Battery market size was valued at US\$ 49.39 million in 2025 and is forecast to a readjusted size of US\$ 1749 million by 2032 with a CAGR of 63.5% during review period.

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.

The Drone Solid-state Battery market report provides a detailed analysis of global market size, regional and country-level market size, segmentation market growth, market share, competitive Landscape, sales analysis, impact of domestic and global market players, value chain optimization, trade regulations, recent developments, opportunities analysis, strategic market growth analysis, product launches, area marketplace expanding, and technological innovations.

Market segmentation

Drone Solid-state Battery market is split by Type and by Application. For the period 2026-2032, the growth among segments provide accurate calculations and forecasts for revenue by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type,

Semi-solid

Fully Solid

Market segment by Product Forms

Pack Batteries

Square Batteries

Cylindrical Batteries

Market segment by Technology

Oxide Solid-State Batteries

Sulfide Solid-State Batteries

Polymer Solid-State Batteries

Market segment by Application

Industrial

Commercial

Military

Market segment by players, this report covers

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

Market segment by regions, regional analysis covers

North America

Europe

Asia-Pacific (China, Japan, South Korea, Rest of Asia)

South America

Middle East & Africa

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