

Global Semi-solid State Drone Battery 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 Semi-solid State Drone Battery market size was valued at US\$ 148 million in 2025 and is forecast to a readjusted size of US\$ 364 million by 2032 with a CAGR of 10.4% during review period.

In 2025, global Semi-solid State Drone Battery production reached approximately 554,000 KWh with an average global market price of around US\$ 260 per KWh, and a gross profit margin of approximately 20%-40%. Semi-solid State Drone Batteries are advanced lithium-based energy storage systems that utilize semi-solid electrolytes instead of fully liquid electrolytes. This design improves safety, energy density, and thermal stability compared to conventional lithium-ion or LiPo batteries. They are particularly suitable for drone applications requiring longer flight time, higher reliability, and enhanced safety under demanding conditions. These batteries support applications such as industrial drones, aerial photography, logistics drones, and defense systems, where performance and safety are critical.

The industrial chain of Semi-solid State Drone Battery includes upstream materials such as lithium compounds, solid-state electrolytes, cathode and anode materials, separators, and advanced manufacturing equipment. The midstream consists of cell manufacturing, battery pack assembly, and battery management system integration. Downstream applications include consumer drones, industrial UAVs, logistics drones, and defense UAV systems. The ecosystem also includes testing, certification, and recycling services to ensure performance, safety, and sustainability.

This report is a detailed and comprehensive analysis for global Semi-solid State Drone Battery 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 Semi-solid State Drone Battery market size and forecasts, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global Semi-solid State Drone Battery market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global Semi-solid State Drone Battery market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global Semi-solid State Drone Battery market shares of main players, shipments in revenue (\$ Million), sales quantity (KWh), and ASP (US\$/KWh), 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 Semi-solid State Drone Battery
- 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 Semi-solid State Drone Battery 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 Grepow (Tattu), GSL Energy, Herewin, Enovpower, Zhuoxun Intelligent Technology, Shenzhen AYAA Technology, Beijing KNS New Energy, Enpower Greentech, SES AI, etc.

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

Market Segmentation

Semi-solid State Drone Battery 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

12Ah

13Ah

14Ah

Others

Market segment by Energy Density

Energy Density: 280Wh/kg

Energy Density: 300Wh/kg

Energy Density: 320Wh/kg

Others

Market segment by Application

Inspection Drones

Agricultural Drones

Surveying Drones

Industrial Logistics Drones

Others

Major players covered

Grepow (Tattu)

GSL Energy

Herewin

Enovpower

Zhuoxun Intelligent Technology

Shenzhen AYAA Technology

Beijing KNS New Energy

Enpower Greentech

SES AI

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 Semi-solid State Drone Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Semi-solid State Drone Battery, with price, sales quantity, revenue, and global market share of Semi-solid State Drone Battery from 2021 to 2026.

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

Chapter 4, the Semi-solid State Drone Battery 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 Semi-solid State Drone Battery 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 Semi-solid State Drone Battery.

Chapter 14 and 15, to describe Semi-solid State Drone Battery sales channel, distributors, customers, research findings and conclusion.

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