

# Global Semi-solid State Drone Battery Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GBCDE3F694EBEN.html>

Date: May 2026

Pages: 115

Price: US\$ 4,480.00 (Single User License)

ID: GBCDE3F694EBEN

## Abstracts

The global Semi-solid State Drone Battery market size is expected to reach \$ 364 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

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 studies the global Semi-solid State Drone Battery production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semi-solid State Drone 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 Semi-solid State Drone Battery that contribute to its increasing demand across many markets.

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

Global Semi-solid State Drone Battery total production and demand, 2021-2032, (KWh)

Global Semi-solid State Drone Battery total production value, 2021-2032, (USD Million)

Global Semi-solid State Drone Battery production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (KWh), (based on production site)

Global Semi-solid State Drone Battery consumption by region & country, CAGR, 2021-2032 & (KWh)

U.S. VS China: Semi-solid State Drone Battery domestic production, consumption, key domestic manufacturers and share

Global Semi-solid State Drone Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (KWh)

Global Semi-solid State Drone Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

Global Semi-solid State Drone Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

This report profiles key players in the global Semi-solid State Drone Battery market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Semi-solid State Drone Battery market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (KWh) and average price (US\$/KWh) by

manufacturer, 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 Semi-solid State Drone Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Semi-solid State Drone Battery Market, Segmentation by Type:

12Ah

13Ah

14Ah

Others

#### Global Semi-solid State Drone Battery Market, Segmentation by Energy Density:

Energy Density: 280Wh/kg

Energy Density: 300Wh/kg

Energy Density: 320Wh/kg

Others

### Global Semi-solid State Drone Battery Market, Segmentation by Application:

Inspection Drones

Agricultural Drones

Surveying Drones

Industrial Logistics Drones

Others

### Companies Profiled:

Grepow (Tattu)

GSL Energy

Herewin

Enovpower

Zhuoxun Intelligent Technology

Shenzhen AYAA Technology

Beijing KNS New Energy

Enpower Greentech

SES AI

**Key Questions Answered:**

1. How big is the global Semi-solid State Drone Battery market?
2. What is the demand of the global Semi-solid State Drone Battery market?
3. What is the year over year growth of the global Semi-solid State Drone Battery market?
4. What is the production and production value of the global Semi-solid State Drone Battery market?
5. Who are the key producers in the global Semi-solid State Drone Battery market?
6. What are the growth factors driving the market demand?

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