

Global UAV Battery System Market Growth 2026-2032

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Abstracts

The global UAV Battery System market size is predicted to grow from US\$ 9417 million in 2025 to US\$ 32768 million in 2032; it is expected to grow at a CAGR of 19.6% from 2026 to 2032.

A UAV Battery System is the primary power supply unit designed to provide electrical energy to an Unmanned Aerial Vehicle (UAV). It typically consists of battery cells (such as lithium-ion or lithium-polymer batteries), a Battery Management System (BMS), enclosure, and connection interfaces. The system supplies stable power to the flight controller, motors, sensors, and onboard electronics, while also incorporating monitoring and protection functions such as voltage, current, and temperature control to ensure safe and efficient operation of the UAV. In 2025, global UAV battery system production reached approximately 71.31 M sets, with an average global market price of around US\$135 per set. Annual production capacity is 79.23 M sets. Gross Profit Margin: 22%. The UAV battery system industry chain is highly structured and vertically integrated. Upstream consists of lithium raw materials such as lithium carbonate, graphite, and electrolytes, which are processed into battery cells by manufacturers like ATL, Sunwoda, and CATL. Midstream players focus on battery pack assembly and BMS integration, converting cells into UAV-specific power systems with high discharge rates and smart energy management. Downstream demand is driven by consumer drones, industrial UAVs for surveying and agriculture, and military applications, where performance, weight, and reliability directly determine purchasing decisions. UAV battery systems are shifting from a component-driven market to a performance-driven ecosystem. The key value is no longer just energy storage, but system intelligence, safety, and endurance optimization. As UAV applications expand into logistics, infrastructure inspection, and defense, demand is increasingly concentrated in high-energy-density and fast-swappable battery solutions. In the long term, technological breakthroughs in solid-state batteries and hybrid energy systems will likely redefine competitive boundaries and reshape supplier hierarchy.

United States market for UAV Battery System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for UAV Battery System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for UAV Battery System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key UAV Battery System players cover Amperex Technology Limited (ATL), Sunwoda Electronic, SZ DJI Technology, Shenzhen Grepow Battery, Guangzhou Great Power Energy, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "UAV Battery System Industry Forecast" looks at past sales and reviews total world UAV Battery System sales in 2025, providing a comprehensive analysis by region and market sector of projected UAV Battery System sales for 2026 through 2032. With UAV Battery System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world UAV Battery System industry.

This Insight Report provides a comprehensive analysis of the global UAV Battery System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on UAV Battery System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global UAV Battery System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for UAV Battery System and breaks down the forecast by Capacity Range, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global UAV Battery System.

This report presents a comprehensive overview, market shares, and growth opportunities of UAV Battery System market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Capacity Range:

Small Capacity ?5,000 mAh

Medium Capacity 5,000?20,000 mAh

Large Capacity >20,000 mAh

Segmentation by Nominal Voltage Level:

Low Voltage System ?12V

Medium Voltage System 12V?48V

High Voltage System >48V

Segmentation by Discharge Rate:

Low Discharge Rate ?10C

Medium Discharge Rate 10C?30C

High Discharge Rate >30C

Segmentation by Application:

Consumer

Industrial

Military

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Amperex Technology Limited (ATL)

Sunwoda Electronic

SZ DJI Technology

Shenzhen Grepow Battery

Guangzhou Great Power Energy

Tianjin Lishen Battery

Zhuhai CosMX Battery

Huizhou Fullymax Battery

Xi'an SAFTY Energy Technology

Spard New Energy Co.

Shenzhen Flypower Technology

DNK Power Company

EaglePicher Technologies

Sion Power Corporation

Inventus Power

MaxAmps Lithium Batteries

RELiON Battery

Enix Power Solutions

Denchi Group

RRC Power Solutions GmbH

Key Questions Addressed in this Report

What is the 10-year outlook for the global UAV Battery System market?

What factors are driving UAV Battery System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do UAV Battery System market opportunities vary by end market size?

How does UAV Battery System break out by Capacity Range, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global UAV Battery System Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for UAV Battery System by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for UAV Battery System by Country/Region, 2021, 2025 & 2032

2.2 UAV Battery System Segment by Capacity Range

- 2.2.1 Small Capacity ?5,000 mAh
- 2.2.2 Medium Capacity 5,000?20,000 mAh
- 2.2.3 Large Capacity >20,000 mAh
- 2.2.4 UAV Battery System Sales by Capacity Range
 - 2.2.4.1 Global UAV Battery System Sales Market Share by Capacity Range (2021-2026)
 - 2.2.4.2 Global UAV Battery System Revenue and Market Share by Capacity Range (2021-2026)
 - 2.2.4.3 Global UAV Battery System Sale Price by Capacity Range (2021-2026)

2.3 UAV Battery System Segment by Nominal Voltage Level

- 2.3.1 Low Voltage System ?12V
- 2.3.2 Medium Voltage System 12V?48V
- 2.3.3 High Voltage System >48V
- 2.3.4 UAV Battery System Sales by Nominal Voltage Level
 - 2.3.4.1 Global UAV Battery System Sales Market Share by Nominal Voltage Level (2021-2026)
 - 2.3.4.2 Global UAV Battery System Revenue and Market Share by Nominal Voltage

Level (2021-2026)

2.3.4.3 Global UAV Battery System Sale Price by Nominal Voltage Level (2021-2026)

2.4 UAV Battery System Segment by Discharge Rate

2.4.1 Low Discharge Rate $\leq 10C$

2.4.2 Medium Discharge Rate $10C \leq 30C$

2.4.3 High Discharge Rate $> 30C$

2.4.4 UAV Battery System Sales by Discharge Rate

2.4.4.1 Global UAV Battery System Sales Market Share by Discharge Rate (2021-2026)

2.4.4.2 Global UAV Battery System Revenue and Market Share by Discharge Rate (2021-2026)

2.4.4.3 Global UAV Battery System Sale Price by Discharge Rate (2021-2026)

2.5 UAV Battery System Segment by Application

2.5.1 Consumer

2.5.2 Industrial

2.5.3 Military

2.5.4 Others

2.5.5 UAV Battery System Sales by Application

2.5.5.1 Global UAV Battery System Sale Market Share by Application (2021-2026)

2.5.5.2 Global UAV Battery System Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global UAV Battery System Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global UAV Battery System Breakdown Data by Company

3.1.1 Global UAV Battery System Annual Sales by Company (2021-2026)

3.1.2 Global UAV Battery System Sales Market Share by Company (2021-2026)

3.2 Global UAV Battery System Annual Revenue by Company (2021-2026)

3.2.1 Global UAV Battery System Revenue by Company (2021-2026)

3.2.2 Global UAV Battery System Revenue Market Share by Company (2021-2026)

3.3 Global UAV Battery System Sale Price by Company

3.4 Key Manufacturers UAV Battery System Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers UAV Battery System Product Location Distribution

3.4.2 Players UAV Battery System Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR UAV BATTERY SYSTEM BY GEOGRAPHIC REGION

4.1 World Historic UAV Battery System Market Size by Geographic Region (2021-2026)

4.1.1 Global UAV Battery System Annual Sales by Geographic Region (2021-2026)

4.1.2 Global UAV Battery System Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic UAV Battery System Market Size by Country/Region (2021-2026)

4.2.1 Global UAV Battery System Annual Sales by Country/Region (2021-2026)

4.2.2 Global UAV Battery System Annual Revenue by Country/Region (2021-2026)

4.3 Americas UAV Battery System Sales Growth

4.4 APAC UAV Battery System Sales Growth

4.5 Europe UAV Battery System Sales Growth

4.6 Middle East & Africa UAV Battery System Sales Growth

5 AMERICAS

5.1 Americas UAV Battery System Sales by Country

5.1.1 Americas UAV Battery System Sales by Country (2021-2026)

5.1.2 Americas UAV Battery System Revenue by Country (2021-2026)

5.2 Americas UAV Battery System Sales by Capacity Range (2021-2026)

5.3 Americas UAV Battery System Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC UAV Battery System Sales by Region

6.1.1 APAC UAV Battery System Sales by Region (2021-2026)

6.1.2 APAC UAV Battery System Revenue by Region (2021-2026)

6.2 APAC UAV Battery System Sales by Capacity Range (2021-2026)

6.3 APAC UAV Battery System Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe UAV Battery System by Country

7.1.1 Europe UAV Battery System Sales by Country (2021-2026)

7.1.2 Europe UAV Battery System Revenue by Country (2021-2026)

7.2 Europe UAV Battery System Sales by Capacity Range (2021-2026)

7.3 Europe UAV Battery System Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa UAV Battery System by Country

8.1.1 Middle East & Africa UAV Battery System Sales by Country (2021-2026)

8.1.2 Middle East & Africa UAV Battery System Revenue by Country (2021-2026)

8.2 Middle East & Africa UAV Battery System Sales by Capacity Range (2021-2026)

8.3 Middle East & Africa UAV Battery System Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of UAV Battery System
- 10.3 Manufacturing Process Analysis of UAV Battery System
- 10.4 Industry Chain Structure of UAV Battery System

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 UAV Battery System Distributors
- 11.3 UAV Battery System Customer

12 WORLD FORECAST REVIEW FOR UAV BATTERY SYSTEM BY GEOGRAPHIC REGION

- 12.1 Global UAV Battery System Market Size Forecast by Region
 - 12.1.1 Global UAV Battery System Forecast by Region (2027-2032)
 - 12.1.2 Global UAV Battery System Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global UAV Battery System Forecast by Capacity Range (2027-2032)
- 12.7 Global UAV Battery System Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Amperex Technology Limited (ATL)
 - 13.1.1 Amperex Technology Limited (ATL) Company Information
 - 13.1.2 Amperex Technology Limited (ATL) UAV Battery System Product Portfolios and Specifications
 - 13.1.3 Amperex Technology Limited (ATL) UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Amperex Technology Limited (ATL) Main Business Overview
 - 13.1.5 Amperex Technology Limited (ATL) Latest Developments
- 13.2 Sunwoda Electronic
 - 13.2.1 Sunwoda Electronic Company Information
 - 13.2.2 Sunwoda Electronic UAV Battery System Product Portfolios and Specifications

- 13.2.3 Sunwoda Electronic UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Sunwoda Electronic Main Business Overview
- 13.2.5 Sunwoda Electronic Latest Developments
- 13.3 SZ DJI Technology
 - 13.3.1 SZ DJI Technology Company Information
 - 13.3.2 SZ DJI Technology UAV Battery System Product Portfolios and Specifications
 - 13.3.3 SZ DJI Technology UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 SZ DJI Technology Main Business Overview
 - 13.3.5 SZ DJI Technology Latest Developments
- 13.4 Shenzhen Grepow Battery
 - 13.4.1 Shenzhen Grepow Battery Company Information
 - 13.4.2 Shenzhen Grepow Battery UAV Battery System Product Portfolios and Specifications
 - 13.4.3 Shenzhen Grepow Battery UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Shenzhen Grepow Battery Main Business Overview
 - 13.4.5 Shenzhen Grepow Battery Latest Developments
- 13.5 Guangzhou Great Power Energy
 - 13.5.1 Guangzhou Great Power Energy Company Information
 - 13.5.2 Guangzhou Great Power Energy UAV Battery System Product Portfolios and Specifications
 - 13.5.3 Guangzhou Great Power Energy UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Guangzhou Great Power Energy Main Business Overview
 - 13.5.5 Guangzhou Great Power Energy Latest Developments
- 13.6 Tianjin Lishen Battery
 - 13.6.1 Tianjin Lishen Battery Company Information
 - 13.6.2 Tianjin Lishen Battery UAV Battery System Product Portfolios and Specifications
 - 13.6.3 Tianjin Lishen Battery UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Tianjin Lishen Battery Main Business Overview
 - 13.6.5 Tianjin Lishen Battery Latest Developments
- 13.7 Zhuhai CosMX Battery
 - 13.7.1 Zhuhai CosMX Battery Company Information
 - 13.7.2 Zhuhai CosMX Battery UAV Battery System Product Portfolios and Specifications

- 13.7.3 Zhuhai CosMX Battery UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.7.4 Zhuhai CosMX Battery Main Business Overview
- 13.7.5 Zhuhai CosMX Battery Latest Developments
- 13.8 Huizhou Fullymax Battery
 - 13.8.1 Huizhou Fullymax Battery Company Information
 - 13.8.2 Huizhou Fullymax Battery UAV Battery System Product Portfolios and Specifications
 - 13.8.3 Huizhou Fullymax Battery UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Huizhou Fullymax Battery Main Business Overview
 - 13.8.5 Huizhou Fullymax Battery Latest Developments
- 13.9 Xi'an SAFTY Energy Technology
 - 13.9.1 Xi'an SAFTY Energy Technology Company Information
 - 13.9.2 Xi'an SAFTY Energy Technology UAV Battery System Product Portfolios and Specifications
 - 13.9.3 Xi'an SAFTY Energy Technology UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Xi'an SAFTY Energy Technology Main Business Overview
 - 13.9.5 Xi'an SAFTY Energy Technology Latest Developments
- 13.10 Spard New Energy Co.
 - 13.10.1 Spard New Energy Co. Company Information
 - 13.10.2 Spard New Energy Co. UAV Battery System Product Portfolios and Specifications
 - 13.10.3 Spard New Energy Co. UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Spard New Energy Co. Main Business Overview
 - 13.10.5 Spard New Energy Co. Latest Developments
- 13.11 Shenzhen Flypower Technology
 - 13.11.1 Shenzhen Flypower Technology Company Information
 - 13.11.2 Shenzhen Flypower Technology UAV Battery System Product Portfolios and Specifications
 - 13.11.3 Shenzhen Flypower Technology UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Shenzhen Flypower Technology Main Business Overview
 - 13.11.5 Shenzhen Flypower Technology Latest Developments
- 13.12 DNK Power Company
 - 13.12.1 DNK Power Company Company Information
 - 13.12.2 DNK Power Company UAV Battery System Product Portfolios and

Specifications

13.12.3 DNK Power Company UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 DNK Power Company Main Business Overview

13.12.5 DNK Power Company Latest Developments

13.13 EaglePicher Technologies

13.13.1 EaglePicher Technologies Company Information

13.13.2 EaglePicher Technologies UAV Battery System Product Portfolios and Specifications

13.13.3 EaglePicher Technologies UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 EaglePicher Technologies Main Business Overview

13.13.5 EaglePicher Technologies Latest Developments

13.14 Sion Power Corporation

13.14.1 Sion Power Corporation Company Information

13.14.2 Sion Power Corporation UAV Battery System Product Portfolios and Specifications

13.14.3 Sion Power Corporation UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Sion Power Corporation Main Business Overview

13.14.5 Sion Power Corporation Latest Developments

13.15 Inventus Power

13.15.1 Inventus Power Company Information

13.15.2 Inventus Power UAV Battery System Product Portfolios and Specifications

13.15.3 Inventus Power UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Inventus Power Main Business Overview

13.15.5 Inventus Power Latest Developments

13.16 MaxAmps Lithium Batteries

13.16.1 MaxAmps Lithium Batteries Company Information

13.16.2 MaxAmps Lithium Batteries UAV Battery System Product Portfolios and Specifications

13.16.3 MaxAmps Lithium Batteries UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 MaxAmps Lithium Batteries Main Business Overview

13.16.5 MaxAmps Lithium Batteries Latest Developments

13.17 RELiON Battery

13.17.1 RELiON Battery Company Information

13.17.2 RELiON Battery UAV Battery System Product Portfolios and Specifications

13.17.3 RELiON Battery UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 RELiON Battery Main Business Overview

13.17.5 RELiON Battery Latest Developments

13.18 Enix Power Solutions

13.18.1 Enix Power Solutions Company Information

13.18.2 Enix Power Solutions UAV Battery System Product Portfolios and Specifications

13.18.3 Enix Power Solutions UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)

13.18.4 Enix Power Solutions Main Business Overview

13.18.5 Enix Power Solutions Latest Developments

13.19 Denchi Group

13.19.1 Denchi Group Company Information

13.19.2 Denchi Group UAV Battery System Product Portfolios and Specifications

13.19.3 Denchi Group UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)

13.19.4 Denchi Group Main Business Overview

13.19.5 Denchi Group Latest Developments

13.20 RRC Power Solutions GmbH

13.20.1 RRC Power Solutions GmbH Company Information

13.20.2 RRC Power Solutions GmbH UAV Battery System Product Portfolios and Specifications

13.20.3 RRC Power Solutions GmbH UAV Battery System Sales, Revenue, Price and Gross Margin (2021-2026)

13.20.4 RRC Power Solutions GmbH Main Business Overview

13.20.5 RRC Power Solutions GmbH Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. UAV Battery System Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. UAV Battery System Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Small Capacity ?5,000 mAh

Table 4. Major Players of Medium Capacity 5,000?20,000 mAh

Table 5. Major Players of Large Capacity >20,000 mAh

Table 6. Global UAV Battery System Sales by Capacity Range (2021-2026) & (Units)

Table 7. Global UAV Battery System Sales Market Share by Capacity Range (2021-2026)

Table 8. Global UAV Battery System Revenue by Capacity Range (2021-2026) & (\$ million)

Table 9. Global UAV Battery System Revenue Market Share by Capacity Range (2021-2026)

Table 10. Global UAV Battery System Sale Price by Capacity Range (2021-2026) & (US\$/Unit)

Table 11. Major Players of Low Voltage System ?12V

Table 12. Major Players of Medium Voltage System 12V?48V

Table 13. Major Players of High Voltage System >48V

Table 14. Global UAV Battery System Sales by Nominal Voltage Level (2021-2026) & (Units)

Table 15. Global UAV Battery System Sales Market Share by Nominal Voltage Level (2021-2026)

Table 16. Global UAV Battery System Revenue by Nominal Voltage Level (2021-2026) & (\$ million)

Table 17. Global UAV Battery System Revenue Market Share by Nominal Voltage Level (2021-2026)

Table 18. Global UAV Battery System Sale Price by Nominal Voltage Level (2021-2026) & (US\$/Unit)

Table 19. Major Players of Low Discharge Rate ?10C

Table 20. Major Players of Medium Discharge Rate 10C?30C

Table 21. Major Players of High Discharge Rate >30C

Table 22. Global UAV Battery System Sales by Discharge Rate (2021-2026) & (Units)

Table 23. Global UAV Battery System Sales Market Share by Discharge Rate (2021-2026)

Table 24. Global UAV Battery System Revenue by Discharge Rate (2021-2026) & (\$ million)

Table 25. Global UAV Battery System Revenue Market Share by Discharge Rate (2021-2026)

Table 26. Global UAV Battery System Sale Price by Discharge Rate (2021-2026) & (US\$/Unit)

Table 27. Global UAV Battery System Sale by Application (2021-2026) & (Units)

Table 28. Global UAV Battery System Sale Market Share by Application (2021-2026)

Table 29. Global UAV Battery System Revenue by Application (2021-2026) & (\$ million)

Table 30. Global UAV Battery System Revenue Market Share by Application (2021-2026)

Table 31. Global UAV Battery System Sale Price by Application (2021-2026) & (US\$/Unit)

Table 32. Global UAV Battery System Sales by Company (2021-2026) & (Units)

Table 33. Global UAV Battery System Sales Market Share by Company (2021-2026)

Table 34. Global UAV Battery System Revenue by Company (2021-2026) & (\$ millions)

Table 35. Global UAV Battery System Revenue Market Share by Company (2021-2026)

Table 36. Global UAV Battery System Sale Price by Company (2021-2026) & (US\$/Unit)

Table 37. Key Manufacturers UAV Battery System Producing Area Distribution and Sales Area

Table 38. Players UAV Battery System Products Offered

Table 39. UAV Battery System Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 40. New Products and Potential Entrants

Table 41. Market M&A Activity & Strategy

Table 42. Global UAV Battery System Sales by Geographic Region (2021-2026) & (Units)

Table 43. Global UAV Battery System Sales Market Share Geographic Region (2021-2026)

Table 44. Global UAV Battery System Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 45. Global UAV Battery System Revenue Market Share by Geographic Region (2021-2026)

Table 46. Global UAV Battery System Sales by Country/Region (2021-2026) & (Units)

Table 47. Global UAV Battery System Sales Market Share by Country/Region (2021-2026)

Table 48. Global UAV Battery System Revenue by Country/Region (2021-2026) & (\$ millions)

Table 49. Global UAV Battery System Revenue Market Share by Country/Region (2021-2026)

Table 50. Americas UAV Battery System Sales by Country (2021-2026) & (Units)

Table 51. Americas UAV Battery System Sales Market Share by Country (2021-2026)

Table 52. Americas UAV Battery System Revenue by Country (2021-2026) & (\$ millions)

Table 53. Americas UAV Battery System Sales by Capacity Range (2021-2026) & (Units)

Table 54. Americas UAV Battery System Sales by Application (2021-2026) & (Units)

Table 55. APAC UAV Battery System Sales by Region (2021-2026) & (Units)

Table 56. APAC UAV Battery System Sales Market Share by Region (2021-2026)

Table 57. APAC UAV Battery System Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC UAV Battery System Sales by Capacity Range (2021-2026) & (Units)

Table 59. APAC UAV Battery System Sales by Application (2021-2026) & (Units)

Table 60. Europe UAV Battery System Sales by Country (2021-2026) & (Units)

Table 61. Europe UAV Battery System Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe UAV Battery System Sales by Capacity Range (2021-2026) & (Units)

Table 63. Europe UAV Battery System Sales by Application (2021-2026) & (Units)

Table 64. Middle East & Africa UAV Battery System Sales by Country (2021-2026) & (Units)

Table 65. Middle East & Africa UAV Battery System Revenue Market Share by Country (2021-2026)

Table 66. Middle East & Africa UAV Battery System Sales by Capacity Range (2021-2026) & (Units)

Table 67. Middle East & Africa UAV Battery System Sales by Application (2021-2026) & (Units)

Table 68. Key Market Drivers & Growth Opportunities of UAV Battery System

Table 69. Key Market Challenges & Risks of UAV Battery System

Table 70. Key Industry Trends of UAV Battery System

Table 71. UAV Battery System Raw Material

Table 72. Key Suppliers of Raw Materials

Table 73. UAV Battery System Distributors List

Table 74. UAV Battery System Customer List

Table 75. Global UAV Battery System Sales Forecast by Region (2027-2032) & (Units)

Table 76. Global UAV Battery System Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 77. Americas UAV Battery System Sales Forecast by Country (2027-2032) & (Units)

Table 78. Americas UAV Battery System Annual Revenue Forecast by Country

(2027-2032) & (\$ millions)

Table 79. APAC UAV Battery System Sales Forecast by Region (2027-2032) & (Units)

Table 80. APAC UAV Battery System Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 81. Europe UAV Battery System Sales Forecast by Country (2027-2032) & (Units)

Table 82. Europe UAV Battery System Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Middle East & Africa UAV Battery System Sales Forecast by Country (2027-2032) & (Units)

Table 84. Middle East & Africa UAV Battery System Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Global UAV Battery System Sales Forecast by Capacity Range (2027-2032) & (Units)

Table 86. Global UAV Battery System Revenue Forecast by Capacity Range (2027-2032) & (\$ millions)

Table 87. Global UAV Battery System Sales Forecast by Application (2027-2032) & (Units)

Table 88. Global UAV Battery System Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 89. Amperex Technology Limited (ATL) Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 90. Amperex Technology Limited (ATL) UAV Battery System Product Portfolios and Specifications

Table 91. Amperex Technology Limited (ATL) UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 92. Amperex Technology Limited (ATL) Main Business

Table 93. Amperex Technology Limited (ATL) Latest Developments

Table 94. Sunwoda Electronic Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 95. Sunwoda Electronic UAV Battery System Product Portfolios and Specifications

Table 96. Sunwoda Electronic UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 97. Sunwoda Electronic Main Business

Table 98. Sunwoda Electronic Latest Developments

Table 99. SZ DJI Technology Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 100. SZ DJI Technology UAV Battery System Product Portfolios and

Specifications

Table 101. SZ DJI Technology UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. SZ DJI Technology Main Business

Table 103. SZ DJI Technology Latest Developments

Table 104. Shenzhen Grepow Battery Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 105. Shenzhen Grepow Battery UAV Battery System Product Portfolios and Specifications

Table 106. Shenzhen Grepow Battery UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. Shenzhen Grepow Battery Main Business

Table 108. Shenzhen Grepow Battery Latest Developments

Table 109. Guangzhou Great Power Energy Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 110. Guangzhou Great Power Energy UAV Battery System Product Portfolios and Specifications

Table 111. Guangzhou Great Power Energy UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. Guangzhou Great Power Energy Main Business

Table 113. Guangzhou Great Power Energy Latest Developments

Table 114. Tianjin Lishen Battery Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 115. Tianjin Lishen Battery UAV Battery System Product Portfolios and Specifications

Table 116. Tianjin Lishen Battery UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. Tianjin Lishen Battery Main Business

Table 118. Tianjin Lishen Battery Latest Developments

Table 119. Zhuhai CosMX Battery Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 120. Zhuhai CosMX Battery UAV Battery System Product Portfolios and Specifications

Table 121. Zhuhai CosMX Battery UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. Zhuhai CosMX Battery Main Business

Table 123. Zhuhai CosMX Battery Latest Developments

Table 124. Huizhou Fullymax Battery Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 125. Huizhou Fullymax Battery UAV Battery System Product Portfolios and Specifications

Table 126. Huizhou Fullymax Battery UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 127. Huizhou Fullymax Battery Main Business

Table 128. Huizhou Fullymax Battery Latest Developments

Table 129. Xi'an SAFTY Energy Technology Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 130. Xi'an SAFTY Energy Technology UAV Battery System Product Portfolios and Specifications

Table 131. Xi'an SAFTY Energy Technology UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 132. Xi'an SAFTY Energy Technology Main Business

Table 133. Xi'an SAFTY Energy Technology Latest Developments

Table 134. Spard New Energy Co. Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 135. Spard New Energy Co. UAV Battery System Product Portfolios and Specifications

Table 136. Spard New Energy Co. UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 137. Spard New Energy Co. Main Business

Table 138. Spard New Energy Co. Latest Developments

Table 139. Shenzhen Flypower Technology Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 140. Shenzhen Flypower Technology UAV Battery System Product Portfolios and Specifications

Table 141. Shenzhen Flypower Technology UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 142. Shenzhen Flypower Technology Main Business

Table 143. Shenzhen Flypower Technology Latest Developments

Table 144. DNK Power Company Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 145. DNK Power Company UAV Battery System Product Portfolios and Specifications

Table 146. DNK Power Company UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 147. DNK Power Company Main Business

Table 148. DNK Power Company Latest Developments

Table 149. EaglePicher Technologies Basic Information, UAV Battery System

Manufacturing Base, Sales Area and Its Competitors

Table 150. EaglePicher Technologies UAV Battery System Product Portfolios and Specifications

Table 151. EaglePicher Technologies UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 152. EaglePicher Technologies Main Business

Table 153. EaglePicher Technologies Latest Developments

Table 154. Sion Power Corporation Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 155. Sion Power Corporation UAV Battery System Product Portfolios and Specifications

Table 156. Sion Power Corporation UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 157. Sion Power Corporation Main Business

Table 158. Sion Power Corporation Latest Developments

Table 159. Inventus Power Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 160. Inventus Power UAV Battery System Product Portfolios and Specifications

Table 161. Inventus Power UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 162. Inventus Power Main Business

Table 163. Inventus Power Latest Developments

Table 164. MaxAmps Lithium Batteries Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 165. MaxAmps Lithium Batteries UAV Battery System Product Portfolios and Specifications

Table 166. MaxAmps Lithium Batteries UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 167. MaxAmps Lithium Batteries Main Business

Table 168. MaxAmps Lithium Batteries Latest Developments

Table 169. RELiON Battery Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 170. RELiON Battery UAV Battery System Product Portfolios and Specifications

Table 171. RELiON Battery UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 172. RELiON Battery Main Business

Table 173. RELiON Battery Latest Developments

Table 174. Enix Power Solutions Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 175. Enix Power Solutions UAV Battery System Product Portfolios and Specifications

Table 176. Enix Power Solutions UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 177. Enix Power Solutions Main Business

Table 178. Enix Power Solutions Latest Developments

Table 179. Denchi Group Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 180. Denchi Group UAV Battery System Product Portfolios and Specifications

Table 181. Denchi Group UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 182. Denchi Group Main Business

Table 183. Denchi Group Latest Developments

Table 184. RRC Power Solutions GmbH Basic Information, UAV Battery System Manufacturing Base, Sales Area and Its Competitors

Table 185. RRC Power Solutions GmbH UAV Battery System Product Portfolios and Specifications

Table 186. RRC Power Solutions GmbH UAV Battery System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 187. RRC Power Solutions GmbH Main Business

Table 188. RRC Power Solutions GmbH Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of UAV Battery System
- Figure 2. UAV Battery System Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global UAV Battery System Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global UAV Battery System Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. UAV Battery System Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. UAV Battery System Sales Market Share by Country/Region (2025)
- Figure 10. UAV Battery System Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Small Capacity ?5,000 mAh
- Figure 12. Product Picture of Medium Capacity 5,000?20,000 mAh
- Figure 13. Product Picture of Large Capacity >20,000 mAh
- Figure 14. Global UAV Battery System Sales Market Share by Capacity Range in 2026
- Figure 15. Global UAV Battery System Revenue Market Share by Capacity Range (2021-2026)
- Figure 16. Product Picture of Low Voltage System ?12V
- Figure 17. Product Picture of Medium Voltage System 12V?48V
- Figure 18. Product Picture of High Voltage System >48V
- Figure 19. Global UAV Battery System Sales Market Share by Nominal Voltage Level in 2026
- Figure 20. Global UAV Battery System Revenue Market Share by Nominal Voltage Level (2021-2026)
- Figure 21. Product Picture of Low Discharge Rate ?10C
- Figure 22. Product Picture of Medium Discharge Rate 10C?30C
- Figure 23. Product Picture of High Discharge Rate >30C
- Figure 24. Global UAV Battery System Sales Market Share by Discharge Rate in 2026
- Figure 25. Global UAV Battery System Revenue Market Share by Discharge Rate (2021-2026)
- Figure 26. UAV Battery System Consumed in Consumer
- Figure 27. Global UAV Battery System Market: Consumer (2021-2026) & (Units)
- Figure 28. UAV Battery System Consumed in Industrial
- Figure 29. Global UAV Battery System Market: Industrial (2021-2026) & (Units)

- Figure 30. UAV Battery System Consumed in Military
- Figure 31. Global UAV Battery System Market: Military (2021-2026) & (Units)
- Figure 32. UAV Battery System Consumed in Others
- Figure 33. Global UAV Battery System Market: Others (2021-2026) & (Units)
- Figure 34. Global UAV Battery System Sale Market Share by Application (2025)
- Figure 35. Global UAV Battery System Revenue Market Share by Application in 2025
- Figure 36. UAV Battery System Sales by Company in 2025 (Units)
- Figure 37. Global UAV Battery System Sales Market Share by Company in 2025
- Figure 38. UAV Battery System Revenue by Company in 2025 (\$ millions)
- Figure 39. Global UAV Battery System Revenue Market Share by Company in 2025
- Figure 40. Global UAV Battery System Sales Market Share by Geographic Region (2021-2026)
- Figure 41. Global UAV Battery System Revenue Market Share by Geographic Region in 2025
- Figure 42. Americas UAV Battery System Sales 2021-2026 (Units)
- Figure 43. Americas UAV Battery System Revenue 2021-2026 (\$ millions)
- Figure 44. APAC UAV Battery System Sales 2021-2026 (Units)
- Figure 45. APAC UAV Battery System Revenue 2021-2026 (\$ millions)
- Figure 46. Europe UAV Battery System Sales 2021-2026 (Units)
- Figure 47. Europe UAV Battery System Revenue 2021-2026 (\$ millions)
- Figure 48. Middle East & Africa UAV Battery System Sales 2021-2026 (Units)
- Figure 49. Middle East & Africa UAV Battery System Revenue 2021-2026 (\$ millions)
- Figure 50. Americas UAV Battery System Sales Market Share by Country in 2025
- Figure 51. Americas UAV Battery System Revenue Market Share by Country (2021-2026)
- Figure 52. Americas UAV Battery System Sales Market Share by Capacity Range (2021-2026)
- Figure 53. Americas UAV Battery System Sales Market Share by Application (2021-2026)
- Figure 54. United States UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 55. Canada UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 56. Mexico UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 57. Brazil UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 58. APAC UAV Battery System Sales Market Share by Region in 2025
- Figure 59. APAC UAV Battery System Revenue Market Share by Region (2021-2026)
- Figure 60. APAC UAV Battery System Sales Market Share by Capacity Range (2021-2026)
- Figure 61. APAC UAV Battery System Sales Market Share by Application (2021-2026)
- Figure 62. China UAV Battery System Revenue Growth 2021-2026 (\$ millions)

- Figure 63. Japan UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 64. South Korea UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 65. Southeast Asia UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 66. India UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 67. Australia UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 68. China Taiwan UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 69. Europe UAV Battery System Sales Market Share by Country in 2025
- Figure 70. Europe UAV Battery System Revenue Market Share by Country (2021-2026)
- Figure 71. Europe UAV Battery System Sales Market Share by Capacity Range (2021-2026)
- Figure 72. Europe UAV Battery System Sales Market Share by Application (2021-2026)
- Figure 73. Germany UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 74. France UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 75. UK UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 76. Italy UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 77. Russia UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 78. Middle East & Africa UAV Battery System Sales Market Share by Country (2021-2026)
- Figure 79. Middle East & Africa UAV Battery System Sales Market Share by Capacity Range (2021-2026)
- Figure 80. Middle East & Africa UAV Battery System Sales Market Share by Application (2021-2026)
- Figure 81. Egypt UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 82. South Africa UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 83. Israel UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 84. Turkey UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 85. GCC Countries UAV Battery System Revenue Growth 2021-2026 (\$ millions)
- Figure 86. Manufacturing Cost Structure Analysis of UAV Battery System in 2026
- Figure 87. Manufacturing Process Analysis of UAV Battery System
- Figure 88. Industry Chain Structure of UAV Battery System
- Figure 89. Channels of Distribution
- Figure 90. Global UAV Battery System Sales Market Forecast by Region (2027-2032)
- Figure 91. Global UAV Battery System Revenue Market Share Forecast by Region (2027-2032)
- Figure 92. Global UAV Battery System Sales Market Share Forecast by Capacity Range (2027-2032)
- Figure 93. Global UAV Battery System Revenue Market Share Forecast by Capacity Range (2027-2032)
- Figure 94. Global UAV Battery System Sales Market Share Forecast by Application

(2027-2032)

Figure 95. Global UAV Battery System Revenue Market Share Forecast by Application
(2027-2032)

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