+357 96 030922
info@marketpublishers.com

Global Drone Battery Market Size Study & Forecast, by UAV Type and Battery Type, and Regional Forecasts 2025–2035

https://marketpublishers.com/r/D3CE4A67ED16EN.html
Date: July 2025
Pages: 285
Price: US$ 3,750.00 (Single User License)
ID: D3CE4A67ED16EN

Abstracts

The Global Drone Battery Market was valued at approximately USD 1.46 billion in 2024 and is expected to experience a compound annual growth rate (CAGR) of 8.70% from 2025 to 2035. Drone battery technology is emerging as the heartbeat of next-generation unmanned aerial vehicle (UAV) operations, catering to both military and commercial applications across diverse verticals. These high-performance batteries power aerial reconnaissance, precision agriculture, logistics, and border surveillance, facilitating extended flight durations, enhanced payload capacity, and mission-critical functionality. The transition from traditional fuel sources to high-density battery systems is reshaping the aerospace landscape, as stakeholders push the limits of endurance, agility, and operational reliability.

The surge in demand for compact, energy-efficient, and fast-charging drone batteries has been fueled by a robust uptick in drone deployments worldwide. The proliferation of smart agriculture practices, disaster response mechanisms, parcel delivery networks, and real-time mapping services has steered investment toward battery innovation. Technologies such as lithium polymer and fuel cells are rapidly gaining traction due to their higher power-to-weight ratios and lifecycle advantages. However, the industry continues to face friction points—thermal management issues, battery cost inflation, and the complex trade-off between energy density and flight safety are persistent hurdles. Nevertheless, manufacturers are leaning into R&D and forging strategic partnerships to recalibrate these trade-offs and introduce durable, scalable solutions for commercial fleets and defense-grade drones alike.

From a geographical standpoint, North America continues to dominate the drone battery ecosystem, primarily driven by its expanding defense contracts, strong presence of

+357 96 030922
info@marketpublishers.com

drone startups, and FAA regulatory advancements encouraging UAV integration into national airspace. The United States, in particular, has ramped up procurement of long-endurance drones for surveillance and tactical missions. Meanwhile, Europe is strategically capitalizing on smart mobility initiatives, with countries like Germany and France investing in electric UAV fleets for urban monitoring and logistics. The Asia Pacific region is anticipated to witness the most accelerated growth during the forecast horizon, spurred by surging industrial automation, expanding drone-as-a-service models, and strong government push in countries like China, South Korea, and India. These economies are pioneering local manufacturing and developing indigenous drone ecosystems, further boosting demand for cost-effective and high-performance drone batteries.

Major market player included in this report are:

Panasonic Corporation

BYD Company Ltd.

Saft Groupe S.A.

EaglePicher Technologies

Ultralife Corporation

Denchi Power Ltd.

HES Energy Systems

Intelligent Energy Limited

Sion Power Corporation

Epsilor Electric Fuel Ltd.

Skydio Inc.

Shenzhen Grepow Battery Co., Ltd.

Amprius Technologies, Inc.

+357 96 030922
info@marketpublishers.com

SolidEnergy Systems

LG Energy Solution Ltd.

Global Drone Battery Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By UAV Type:

High Altitude Long Endurance (HALE)

+357 96 030922
info@marketpublishers.com

Middle Altitude Long Endurance (MALE)

Tactical

Small

By Battery Type:

Fuel Cell

Lithium-Ion

Nickel Cadmium

Lithium Polymer

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

+357 96 030922
info@marketpublishers.com

- Rest of Europe

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico

Middle East & Africa

- UAE
- Saudi Arabia
- South Africa
- Rest of Middle East & Africa

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2025 to 2035.

+357 96 030922
info@marketpublishers.com

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

CHAPTER 4. GLOBAL DRONE BATTERY INDUSTRY ANALYSIS

CHAPTER 5. GLOBAL DRONE BATTERY MARKET SIZE & FORECASTS BY UAV TYPE (2025–2035)

+357 96 030922
info@marketpublishers.com

CHAPTER 6. GLOBAL DRONE BATTERY MARKET SIZE & FORECASTS BY BATTERY TYPE (2025–2035)

CHAPTER 7. GLOBAL DRONE BATTERY MARKET SIZE & FORECASTS BY REGION (2025–2035)

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

CHAPTER 8. COMPETITIVE INTELLIGENCE

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Drone Battery Market Size Study & Forecast, by UAV Type and Battery Type, and Regional Forecasts 2025–2035

Product link: https://marketpublishers.com/r/D3CE4A67ED16EN.html

Price: US$ 3,750.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/D3CE4A67ED16EN.html