

Drone Battery Market to Exceed USD 20.81B by 2032, Driven by Growing Drone Adoption Across Industries.

"The Drone Battery Market is growing rapidly, fueled by rising drone adoption in agriculture, defense, logistics, and surveillance sectors."

AUSTIN, TX, UNITED STATES, November 18, 2024 /EINPresswire.com/ -- The [Drone Battery Market](#) size was USD 4.69 billion in 2023 and is expected to reach USD 20.81 billion by 2032, growing at a CAGR of 20.45% over the forecast period of 2024-2032.



Growing Demand for Advanced Drone Batteries Driven by Expanding Applications and E-Commerce Growth

Increased application of drones is opening up prosperous markets for both established and startup drone and component makers in multiple industries, including the transport and logistics industries to deliver goods. Driven by the growth of the e-commerce market worldwide, the demand for capacity-intensive drones to carry increased payloads is increasing. This has resulted in an increased need for more advanced drone battery solutions, with hybrid drones designed for such applications likely to lead the growth of the market during the forecast period. More importantly, drones are being used for key applications, including pirate monitoring and law enforcement for crowd control. Advances in smart battery technology, which incorporates the integration of BMS into the battery, continue to enhance the life of batteries and continuously monitor the performance of drones in real time.

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Driving Forces and Emerging Opportunities in the Drone Battery Market

The key growth drivers and opportunities in the drone battery market include the growing

adoption of drones for logistics, defense, agriculture, and law enforcement, increased adoption of drones due to high dependency on surveillance and combat capabilities by multiple defense forces, durability, high-performance requirements for drone batteries in defense applications, and increasing adoption of drones across other industries. Drones are also being used in the agricultural sector for precision farming and optimal use of resources, and thus these extend the life of the battery and energy efficiency. Similarly, law enforcement agencies make use of drones in crowd control, border patrol, and surveillance operations, increasing the demand for the powerful power system. Opportunity Side- On the other hand, advanced low-cost microprocessor technology and control drones are making even more affordable and efficient battery solutions possible.

Key Players:

- HES Energy Systems
- Plug Power Inc
- Intelligent Energy
- RRC Power Solutions
- Micromulticopter Aero Technology Co., Ltd.
- SolidEnergy Systems
- Sion Power
- Doosan Mobility Innovation
- Eaglepicher Technologies
- Oxis Energy Ltd

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Lithium-Ion Batteries and OEM Segment Lead Drone Battery Market Growth

By Technology

Lithium-based batteries dominate the market due to their superior energy density and longer operational life. Lithium-ion batteries are widely adopted across commercial and military drone applications, providing high power and energy efficiency.

By Point of Sale

The OEM (Original Equipment Manufacturer) segment leads the market, as most drone battery systems are sold as part of a new drone package. However, the aftermarket segment is gaining traction due to the need for replacement batteries in operational drones.

By Technology

- Lithium-Based
- Nickel Based
- Fuel Cell

By Component

- Cell
- BMS
- Enclosure
- Connector

By Drone Type

- Fixed-wing
- Fixed-wing VTOL
- Rotary-wing

By Platform

- Consumer
- Commercial
- Government & Law Enforcement
- Military

By Function

- Special-Purpose Drones
- Passenger Drones
- Inspection & Monitoring Drones
- Surveying & Mapping Drones
- Agricultural Drones
- Cargo Air Vehicles
- Others

By Point of Sale

- OEM
- Aftermarket

North America to Lead Drone Battery Market, with Asia Pacific Following Rapid Growth

North America is expected to dominate the market during the forecast period, which is mainly driven by the presence of major players such as Eagle Picher Technologies and Sion Power Corporation. The key driver in this contribution is the United States, which is fueled by an increasing demand for drones across the sector with commercial, military, and defense sectors. Asia Pacific is likely to grow pretty fast. Particularly, countries in that region with developing drone industries, including China, India, and Japan, will demand higher percentages of drone batteries. Europe is expected to grow moderately due to key innovators in the advancement of drone battery technology, such as Celle Energy Limited (UK) and Denchi Power Ltd (UK).

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Recent Developments

□ In January 2024, Sion Power Investment Sion Power closed USD 75 million in funding for developing its Licerion technology to commercialize this innovative battery technology that can help increase energy density and longevity in EV batteries, expected to revolutionize the performance of high-performance EVs, mitigating range anxiety and increased charging time.

□ In October 2023, EaglePicher Technologies unveiled the high-tech battery system for the Saab Gripen E fighter aircraft. The modern technology will be expected to distribute increased power within the numerous advanced systems of the Gripen E, including avionics and communications to thus support its operations in powerful modern defense missions.

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Office No.305-B, Arissa Avenue, Fountain Road, Kharadi, Pune, Maharashtra 411014

Akash Anand

SNS Insider | Strategy and Stats

+1 415-230-0044

[email us here](#)

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