

Global Antimony-based Liquid Metal Battery Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Antimony-based Liquid Metal Battery market size was valued at US\$ 92.30 million in 2025 and is forecast to a readjusted size of US\$ 188 million by 2032 with a CAGR of 10.0% during review period.

Antimony-based liquid metal batteries are high-temperature electrochemical energy storage devices that use antimony, antimony alloys, or reversible antimony/antimony-oxide redox systems as key active materials. They are typically configured with liquid metal electrodes, molten-salt electrolytes or solid-oxide electrolyte structures, thermal management, battery management systems, cell stacks, and modular or containerized battery systems. The technology is mainly designed for stationary long-duration energy storage, renewable integration, grid balancing, industrial and commercial storage, microgrids, and data center backup applications.

Based on our research, antimony-based liquid metal batteries remain at the transition stage between technology validation and early commercialization. The segment has not yet developed into a scaled battery market comparable to lithium-ion, sodium-sulfur, flow batteries, or iron-air batteries. Its industrial nature is closer to an integrated high-temperature electrochemical platform, combining molten-salt chemistry, antimony-based active materials, thermal management, battery control, and long-duration grid storage applications.

From a demand perspective, the long-term opportunity is driven by rising requirements for four-hour-plus, ten-hour-plus, and even daily energy storage as renewable penetration increases. Policy support for long-duration and new-type energy storage is becoming clearer in both the United States and China, but the first wave of commercial

demand is still being captured mainly by lithium-ion, flow batteries, compressed air, iron-air, and thermal storage solutions. For antimony-based systems to scale, the industry must prove system reliability, reduce engineering complexity, secure antimony supply, and build customer confidence in project financeability. Antimony's strategic-material status and export-control environment may further increase the importance of regional supply chains, upstream resource partnerships, and end-of-life material recovery.

The Antimony-based Liquid Metal Battery market report provides a detailed analysis of global market size, regional and country-level market size, segmentation market growth, market share, competitive Landscape, sales analysis, impact of domestic and global market players, value chain optimization, trade regulations, recent developments, opportunities analysis, strategic market growth analysis, product launches, area marketplace expanding, and technological innovations.

Market segmentation

Antimony-based Liquid Metal Battery market is split by Type and by Application. For the period 2026-2032, the growth among segments provide accurate calculations and forecasts for revenue by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type,

Ca-Sb LMB

Mg-Sb LMB

Market segment by Specification

100Ah Grade

200Ah Grade

500Ah Grade

Others

Market segment by Discharge Duration

?4 Hours

>4 Hours

Market segment by Application

Power Grid

Industrial and Commercial

Others

Market segment by players, this report covers

Ambri

ZHONGTI

Wuhan Jizhao

Henghui Keyuan

Market segment by regions, regional analysis covers

North America

Europe

Asia-Pacific (China, Japan, South Korea, Rest of Asia)

South America

Middle East & Africa

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