

Global Aluminum-Air Battery Market Growth 2025-2031

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Abstracts

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The global Aluminum-Air Battery market size is predicted to grow from US\$ 266 million in 2025 to US\$ 264 million in 2031; it is expected to grow at a CAGR of -0.1% from 2025 to 2031.

Aluminum-Air Battery is a kind of chemical battery that uses aluminum as negative electrode and oxygen as positive electrode. Aluminum–air batteries or Al–air batteries produce electricity from the reaction of oxygen in the air with aluminum. They have one of the highest energy densities of all batteries, but they are not widely used because of problems with high anode cost and byproduct removal when using traditional electrolytes and this has restricted their use to mainly military applications.

Global Aluminum-Air Battery key players include Phinergy, Alcoa, Fuji-pigment, Renault-Nissan, etc.

China is the largest market, with a share over 55%, followed by US, and Japan, both have a share over 30 percent.

In terms of product, Aluminum-air Battery is the largest segment.

LP Information, Inc. (LPI) ' newest research report, the “Aluminum-Air Battery Industry Forecast” looks at past sales and reviews total world Aluminum-Air Battery sales in 2024, providing a comprehensive analysis by region and market sector of projected Aluminum-Air Battery sales for 2025 through 2031. With Aluminum-Air Battery sales broken down by region, market sector and sub-sector, this report provides a detailed

analysis in US\$ millions of the world Aluminum-Air Battery industry.

This Insight Report provides a comprehensive analysis of the global Aluminum-Air Battery 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 Aluminum-Air Battery portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Aluminum-Air Battery market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Aluminum-Air Battery and breaks down the forecast by Type, 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 Aluminum-Air Battery.

This report presents a comprehensive overview, market shares, and growth opportunities of Aluminum-Air Battery market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Lead-acid batteries

Ni-Cd

MH-Ni

Zn-Air Battery

Lithium-ion Battery

Aluminum-air Battery

Segmentation by Application:

Military

Civil

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.

Phinergy

Alcoa

Fuji-pigment

Renault-Nissan

ACTXE

Zhongke Metal

JOINWORLD

ANYUAN

China Dynamics

Geely

Mingtai

Super New Power

Key Questions Addressed in this Report

What is the 10-year outlook for the global Aluminum-Air Battery market?

What factors are driving Aluminum-Air Battery market growth, globally and by region?

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

How do Aluminum-Air Battery market opportunities vary by end market size?

How does Aluminum-Air Battery break out by Type, by Application?

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