

Global AGV and AMR Lithium Batteries Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AGV and AMR Lithium Batteries market size is expected to reach \$ 3585 million by 2032, rising at a market growth of 14.7% CAGR during the forecast period (2026-2032).

In 2025, global sales of IAGV and AMR Lithium Batteries are approximately 8.9 million kWh, with an average selling price of about \$149/kWh. AGV and AMR lithium batteries refer to power battery systems specifically designed for automated guided vehicles and autonomous mobile robots. Through the integration of lithium iron phosphate or ternary lithium battery cells with an intelligent battery management system (BMS), they provide high safety, long cycle life, and fast charging capabilities to meet the needs of 24/7 continuous operation and intermittent recharging in industrial scenarios. Upstream raw materials mainly include lithium carbonate, nickel-cobalt-manganese ternary precursors, iron phosphate, graphite anodes, separators, electrolytes, and copper and aluminum foil, etc. Upstream material consumption is mainly lithium salts and cathode materials. Downstream applications mainly cover two major sectors: manufacturing (automotive parts, lithium battery production, electronics manufacturing) and wholesale and distribution (e-commerce warehousing, express logistics). The total production capacity of major global companies has exceeded 13 million kWh, and the industry's average gross profit margin remains in the range of 35%-45%. The future lies in breakthroughs in solid-state battery technology, deeply intelligent BMS scheduling, and the construction of a closed-loop system for the tiered utilization and recycling of batteries. Future demand and business opportunities are mainly reflected in the accelerated replacement of lead-acid batteries in the existing market, the increased penetration rate of emerging application scenarios (photovoltaics, medical, cold chain), and the growth in localized supporting needs in overseas markets.

This report studies the global AGV and AMR Lithium Batteries production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AGV and AMR Lithium Batteries and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of AGV and AMR Lithium Batteries that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AGV and AMR Lithium Batteries total production and demand, 2021-2032, (KWh)

Global AGV and AMR Lithium Batteries total production value, 2021-2032, (USD Million)

Global AGV and AMR Lithium Batteries production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (KWh), (based on production site)

Global AGV and AMR Lithium Batteries consumption by region & country, CAGR, 2021-2032 & (KWh)

U.S. VS China: AGV and AMR Lithium Batteries domestic production, consumption, key domestic manufacturers and share

Global AGV and AMR Lithium Batteries production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (KWh)

Global AGV and AMR Lithium Batteries production by Type, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

Global AGV and AMR Lithium Batteries production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

This report profiles key players in the global AGV and AMR Lithium Batteries market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include CATL, Lishenpower, Panasonic, Samsung SDI, HIITIO, BSLBATT, EaglePicher, EnerSys, Embatterysystems, Green Cubes, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World AGV and AMR Lithium Batteries market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (KWh) and average price (US\$/KWh) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AGV and AMR Lithium Batteries Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AGV and AMR Lithium Batteries Market, Segmentation by Type:

Lithium Iron Phosphate

Ternary Lithium

Global AGV and AMR Lithium Batteries Market, Segmentation by Capacity:

Capacity: 20-80Ah

Capacity: 80-150Ah

Capacity: 150-280Ah

Global AGV and AMR Lithium Batteries Market, Segmentation by Voltage Rating:

Voltage Rating: 24V System

Voltage Rating: 48V System

Others

Global AGV and AMR Lithium Batteries Market, Segmentation by Application:

Logistics and Warehousing

Manufacturing Workshop

Distribution Center

Others

Companies Profiled:

CATL

Lishenpower

Panasonic

Samsung SDI

HIITIO

BSLBATT

EaglePicher

Enersys

Embatterysystems

Green Cubes

Blue Line Battery

TAITAN

KEHENG

LILANG

DAW Power Technology

Redway Power

LG Energy Solution

MANLY Battery

Key Questions Answered:

1. How big is the global AGV and AMR Lithium Batteries market?
2. What is the demand of the global AGV and AMR Lithium Batteries market?
3. What is the year over year growth of the global AGV and AMR Lithium Batteries market?
4. What is the production and production value of the global AGV and AMR Lithium Batteries market?
5. Who are the key producers in the global AGV and AMR Lithium Batteries market?
6. What are the growth factors driving the market demand?

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