

Global EMU Traction Battery Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global EMU Traction Battery market size is expected to reach \$ 854 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

Trainset batteries are high-power energy storage systems installed on trainsets or locomotives to provide emergency power, auxiliary power, or self-traction capability. These systems typically employ lithium titanate (LTO) or lithium iron phosphate (LFP) technology, enabling trains to operate on non-electrified tracks or be moved to a safe area in the event of a catenary failure. This technology emphasizes high safety, long cycle life, and fast charging capability. The trainset battery industry chain begins with upstream raw materials such as lithium, positive and negative electrode materials, electrolytes, and battery management system (BMS) chips. Midstream, specialized rail transit energy storage manufacturers assemble battery modules and packs, ensuring compliance with stringent standards such as IEC 62928. Downstream applications cover high-speed rail, subway systems, and freight locomotives. Thermal management integration, safety testing, and full lifecycle maintenance services are crucial for operational reliability. In 2025, global trainset battery production is estimated at approximately 300 MWh, with a global average market price of approximately US\$1,800 per kilowatt-hour. The gross profit margin of major companies in the industry ranges from 35% to 50%. In 2025, the global production capacity of batteries for high-speed trains will be approximately 375 megawatt-hours.

This report studies the global EMU Traction Battery production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for EMU Traction Battery 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 EMU Traction Battery that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global EMU Traction Battery total production and demand, 2021-2032, (KWh)

Global EMU Traction Battery total production value, 2021-2032, (USD Million)

Global EMU Traction Battery production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (KWh), (based on production site)

Global EMU Traction Battery consumption by region & country, CAGR, 2021-2032 & (KWh)

U.S. VS China: EMU Traction Battery domestic production, consumption, key domestic manufacturers and share

Global EMU Traction Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (KWh)

Global EMU Traction Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

Global EMU Traction Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

This report profiles key players in the global EMU Traction Battery 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 Henan Xintaihang Power Supply Co., Ltd., Sichuan Changhong Power Supply Co., Ltd., Saft, Hobek Power Systems (Shanghai) Co., Ltd., 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 EMU Traction Battery 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 EMU Traction Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global EMU Traction Battery Market, Segmentation by Type:

Lead-Acid Traction Battery

Lithium-Ion Traction Battery

Lithium Iron Phosphate (LiFePO₄) Battery

Global EMU Traction Battery Market, Segmentation by Capacity:

High-Capacity Traction Battery

Standard Capacity Traction Battery

Global EMU Traction Battery Market, Segmentation by Application:

EMU Traction Power Backup

Onboard Control System Power Supply

Lighting and HVAC Systems Support

Emergency Starting of Train Systems

Auxiliary Power Supply during Main Power Failure

Companies Profiled:

Henan Xintaihang Power Supply Co., Ltd.

Sichuan Changhong Power Supply Co., Ltd.

Saft

Hobek Power Systems (Shanghai) Co., Ltd.

Key Questions Answered:

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

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