

Global Liquid Flow Battery Energy Storage Converter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid Flow Battery Energy Storage Converter market size is expected to reach \$ 267 million by 2032, rising at a market growth of 4.1% CAGR during the forecast period (2026-2032).

In 2025, the global production of flow battery energy storage converters reached 43,673 units, with an average selling price of US\$4,500 per unit. The global annual production capacity of flow battery energy storage converters is approximately 75,000 units, with a gross profit margin of approximately 27.5%. A flow battery energy storage converter is a key device in a flow battery system, responsible for the conversion and control of electrical energy, connecting the flow battery to the grid or load for energy flow. The upstream of the flow battery energy storage converter industry chain includes electrochemical materials and liquid electrolytes, energy storage units and components, thermal management and materials, etc.; the midstream consists of flow battery energy storage converter manufacturers; and the downstream applications are mainly energy storage microgrids, energy storage power stations, and industrial parks.

Flow battery energy storage converters are showing a gradual growth trend in the field of sustainable energy storage. Their core advantages lie in independent energy storage capacity and power scale, long lifespan and fast response, high safety and deep cycle life, making them suitable for the energy management needs of large-scale site-level and microgrid/distributed energy systems. Currently, the market is limited by the cost of electrochemical materials, the complexity of system integration, the maturity of control/monitoring algorithms, and the efficiency and thermal management challenges of converters/inverters in high-voltage, high-power scenarios. However, with the decline in the cost of individual battery cells, the advancement of research and development of new electrolyte materials such as fluorocarbon/iron-based electrolytes, and the rise of

solutions featuring intelligent control and cloud-based operation and maintenance, the application prospects of flow battery energy storage converters are gradually expanding in scenarios such as power balancing, peak shaving, emergency backup, and microgrid interconnection. Overall, the industry chain is transitioning from the experimental stage to commercial deployment, with the key being to reduce total cost, improve system integration, and ensure a highly reliable operation and maintenance ecosystem.

This report studies the global Liquid Flow Battery Energy Storage Converter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid Flow Battery Energy Storage Converter 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 Liquid Flow Battery Energy Storage Converter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Liquid Flow Battery Energy Storage Converter total production and demand, 2021-2032, (Units)

Global Liquid Flow Battery Energy Storage Converter total production value, 2021-2032, (USD Million)

Global Liquid Flow Battery Energy Storage Converter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Liquid Flow Battery Energy Storage Converter consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Liquid Flow Battery Energy Storage Converter domestic production, consumption, key domestic manufacturers and share

Global Liquid Flow Battery Energy Storage Converter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Liquid Flow Battery Energy Storage Converter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Liquid Flow Battery Energy Storage Converter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Liquid Flow Battery Energy Storage Converter 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 StorTera, ABB, Nidec, Johnson Controls, Destin Power, Dynapower, Parker Hannifin, Delta Electronics, Vertiv, Socomec, 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 Liquid Flow Battery Energy Storage Converter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) 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 Liquid Flow Battery Energy Storage Converter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid Flow Battery Energy Storage Converter Market, Segmentation by Type:

Below 500KW

500KW-1MW

More Than 1MW

Global Liquid Flow Battery Energy Storage Converter Market, Segmentation by Power Supply:

Class A1

Class A2

Class B1

Class B2

Global Liquid Flow Battery Energy Storage Converter Market, Segmentation by Installation and Usage Environment:

Indoor

Outdoor

Global Liquid Flow Battery Energy Storage Converter Market, Segmentation by Application:

Energy Storage Microgrid

Energy Storage Power Station

Low-Carbon Park

Power Generation Side Power Plant

Companies Profiled:

StorTera

ABB

Nidec

Johnson Controls

Destin Power

Dynapower

Parker Hannifin

Delta Electronics

Vertiv

Socomec

SUNGROW

HNAC Technology

LINYANG

SERMATEC

Nebula

Hoymiles Power Electronics

Xi'An New Electric Technology

SOARING

JingTsing

Key Questions Answered:

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

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