

Global Energy Storage Bidirectional AC and DC Converter Market Research Report 2026(Status and Outlook)

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Abstracts

In energy storage systems, bidirectional alternating current (AC) and direct current (DC) converters are key devices used to convert between AC and DC for efficient energy transmission and management. In February 2023, the Standardization Administration of China and the National Energy Administration issued the Guidelines on the Construction of New Energy Storage Standard System, which included 205 new energy storage standards. In the 14th Five-Year Plan and the 2035 Vision Target Outline, the energy storage industry, energy storage capacity, energy storage projects have been made requirements. In 2021, China issued the Guiding Opinions on Accelerating the Development of New Energy Storage, which specified a clear path for the development of energy storage industry. According to the data of CEC, the cumulative installed capacity of electrochemical energy storage power stations that put into operation was mainly distributed in the power side, and the total energy is 6.80 GWh, which accounted for 48.40% by the end of 2022. According to CNESA, by the end of 2022, the cumulative installed capacity of power energy storage projects which has put into operation in the world was 237.2GW, with an annual growth rate of 15%. The cumulative installed capacity of new energy storage reached 45.7GW, which has nearly twice of the same period last year, with an annual growth rate of 80%. The lithium-ion battery occupied an absolute dominant position, with an annual growth rate of more than 85%. The global energy storage market developed rapidly, and the installed capacity of new power energy storage projects is 30.7GW, with a year-on-year growth of 98%. China, Europe and the United States continued to lead the development of the global energy storage market, collectively accounting for 86% of the global market. According to CNESA statistics, by the end of 2022, the total installed capacity of power energy storage projects put into operation in China was 59.8GW, accounting for 25% of the total global market scale, with an annual growth rate of 38%. The cumulative installed capacity of

new energy storage exceeded 10GW for the first time, reaching 13.1GW / 27.1, GWh. And the annual growth rate of power scale reached 128%, while the annual growth rate of energy scale reached 141%. The installed capacity of newly added power energy storage projects in China reached 16.5GW for the first time, among which the new capacity of pumped storage was 9.1GW. Among the new energy storage, lithium-ion battery occupied an absolute dominant position, accounting for 136%.

The global Energy Storage Bidirectional AC and DC Converter market size was estimated at USD 645.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 12.20% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Energy Storage Bidirectional AC and DC Converter market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Energy Storage Bidirectional AC and DC Converter market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Energy Storage Bidirectional AC and DC Converter market.

Global Energy Storage Bidirectional AC and DC Converter Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-

user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

ABB
Nidec Corporation
Sungrow Power Supply Co.,Ltd.
Johnson Controls
Parker Hannifin
Delta Electronics, Inc.
HNAC Technology Co., Ltd.
Destin Power Inc.
Jiangsu Linyang Energy Co., Ltd.
China Greatwall Technology Group Co., Ltd.
Dynapower Company LLC
Shanghai Sermatec Energy Technology Co., Ltd.
Shenzhen Kstar Science&Technology Co.,Ltd.
Soaring
TBEA
Shenzhen Sinexcel Electric Co.,Ltd.

Market Segmentation (by Type)

Below 500KW
500KW-1MW
Above 1MW

Market Segmentation (by Application)

Commercial
Industrial
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

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

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Energy Storage Bidirectional AC and DC Converter Market

Overview of the regional outlook of the Energy Storage Bidirectional AC and DC Converter Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product

type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Energy Storage Bidirectional AC and DC Converter Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Energy Storage Bidirectional AC and DC Converter, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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