

Global Energy Storage Bidirectional AC and DC Converter Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Energy Storage Bidirectional AC and DC Converter market size was valued at US\$ 663 million in 2024 and is forecast to a readjusted size of USD 1446 million by 2031 with a CAGR of 11.9% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

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%.

This report is a detailed and comprehensive analysis for global Energy Storage Bidirectional AC and DC Converter market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Energy Storage Bidirectional AC and DC Converter market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (USD/KW), 2020-2031

Global Energy Storage Bidirectional AC and DC Converter market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average

selling prices (USD/KW), 2020-2031

Global Energy Storage Bidirectional AC and DC Converter market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (USD/KW), 2020-2031

Global Energy Storage Bidirectional AC and DC Converter market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (USD/KW), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Energy Storage Bidirectional AC and DC Converter

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Energy Storage Bidirectional AC and DC Converter market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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., etc.

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

Market Segmentation

Energy Storage Bidirectional AC and DC Converter market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting

qualified niche markets.

Market segment by Type

Below 500KW

500KW-1MW

Above 1MW

Market segment by Application

Commercial

Industrial

Others

Major players covered

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 segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Energy Storage Bidirectional AC and DC Converter product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Energy Storage Bidirectional AC and DC Converter, with price, sales quantity, revenue, and global market share of Energy Storage Bidirectional AC and DC Converter from 2020 to 2025.

Chapter 3, the Energy Storage Bidirectional AC and DC Converter competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Energy Storage Bidirectional AC and DC Converter breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Energy Storage Bidirectional AC and DC Converter market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Energy Storage Bidirectional AC and DC Converter.

Chapter 14 and 15, to describe Energy Storage Bidirectional AC and DC Converter sales channel, distributors, customers, research findings and conclusion.

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