

Global Full-Power Wind Power Converter Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Full-Power Wind Power Converter market size was valued at US\$ 3100 million in 2025 and is forecast to a readjusted size of US\$ 4076 million by 2032 with a CAGR of 4.0% during review period.

In 2025, the global production volume of full-power wind power converters is projected to reach 100.42 GW, with an average selling price of \$30/kW. The global annual production capacity for full-power wind power converters stands at approximately 200 GW, with a gross margin of around 26.5%. A full-power wind power converter is a power electronic device that establishes the complete power conversion channel between a wind turbine's stator windings and the power grid. Its defining characteristic is that the entirety of the power generated by the turbine (100%) must flow through the converter before being integrated into the grid. The converter employs an AC-DC-AC back-to-back topology; its front end connects to the generator (typically a Permanent Magnet Synchronous Generator [PMSG] or a Squirrel-Cage Induction Generator [SCIG]), while its rear end connects to the power grid. This configuration enables rectification, inversion, and grid-connection control across the full power range, thereby fulfilling functions such as variable-speed constant-frequency operation, maximum power point tracking, and grid-connection power quality regulation. The upstream supply chain for full-power wind power converters includes components such as IGBT modules, IGBT driver chips, and SiC devices. The midstream segment consists of the manufacturers of these full-power wind power converters, while the downstream market is primarily driven by sectors such as offshore and onshore wind power.

The current market for full-power wind power converters is undergoing a phase of rapid growth, driven by the expansion of offshore wind power and the trend toward larger

turbine capacities. As global demand for renewable energy continues to climb, coupled with the steady increase in the unit capacity of wind turbines, full-power converters capable of interfacing with both direct-drive and semi-direct-drive systems are capturing a significantly larger market share, thanks to their grid-friendly characteristics and high reliability. Amidst this trend, technological competition within the market is intensifying; key development priorities are now focused on enhancing conversion efficiency, implementing modular and intelligent designs, and achieving deep integration with energy storage systems to bolster grid stability and compatibility.

This report is a detailed and comprehensive analysis for global Full-Power Wind Power 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 Full-Power Wind Power Converter market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Full-Power Wind Power Converter market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Full-Power Wind Power Converter market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Full-Power Wind Power Converter market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (US\$/KW), 2021-2026

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 Full-Power Wind Power 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 Full-Power Wind Power 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, Vertiv, Vensys, Ingeteam, SCHAEFER Elektronik GmbH, GE Vernova, SUNGROW, Zhejiang HRV Electric, Xinying Technologies, HITE Electric Technology, etc.

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

Market Segmentation

Full-Power Wind Power Converter market is split by Type and by Application. For the period 2021-2032, 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

Two-Level Full-Power Converter

Three-Level Full-Power Converter

Multi-Level Full-Power Converter

Market segment by Power

100 kW ? 1 MW

1 MW ? 10 MW

> 10 MW

Market segment by Cooling

Air Cooling

Liquid Cooling

Hybrid

Market segment by Application

Offshore Wind Power

Onshore Wind Power

Major players covered

ABB

Vertiv

Vensys

Ingeteam

SCHAEFER Elektronik GmbH

GE Vernova

SUNGROW

Zhejiang HRV Electric

Xinying Technologies

HITE Electric Technology

CRRC Wind Power

Hopewind

Delta

Chint

DEC

Novtium

JIUZHOU GROUP

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 Full-Power Wind Power Converter product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Full-Power Wind Power Converter, with price, sales quantity, revenue, and global market share of Full-Power Wind Power Converter from 2021 to 2026.

Chapter 3, the Full-Power Wind Power Converter competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Full-Power Wind Power Converter breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Full-Power Wind Power Converter market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Full-Power Wind Power Converter.

Chapter 14 and 15, to describe Full-Power Wind Power Converter sales channel, distributors, customers, research findings and conclusion.

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