

# Global CHB Multilevel Converter Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global CHB Multilevel Converter market size is expected to reach \$ 1790 million by 2032, rising at a market growth of 11.7% CAGR during the forecast period (2026-2032).

A Cascaded H-Bridge (CHB) multilevel converter is a power electronic topology composed of multiple H-bridge power cells connected in series. Each cell is supplied by an isolated DC source or rectifier unit, and the cascaded structure synthesizes a high-quality multilevel AC output waveform. CHB converters are widely used in medium- and high-voltage motor drives and grid power conversion systems due to their modularity, low harmonic distortion, scalability, and suitability for high-power applications. The global CHB multilevel converter market is projected to ship 6,344 units in 2025, with an average selling price (ASP) of US\$128,000 per unit and an average gross margin of approximately 25%–40%. The industry chain for CHB (Cascaded H-Bridge) multilevel variable frequency drives primarily consists of upstream core power components, midstream system integration, and downstream industrial and power grid applications. The upstream segment encompasses critical components such as IGBT/SiC power modules, DSP/FPGA control chips, capacitors, reactors, magnetic materials, and transformers; key suppliers of these core power components include Infineon, Mitsubishi Electric, Fuji Electric, StarPower, and Silan Microelectronics. The midstream segment comprises manufacturers of high-voltage variable frequency drives and multilevel systems, responsible for topology design, control algorithm development, power unit integration, and complete system manufacturing; this constitutes the core segment of the industry chain with the highest value. Representative enterprises in this segment include Leader & Harvest, Inovance, Hopewind, Xinfengguang, ABB, and Siemens Energy. Downstream applications are primarily found in mining, metallurgy, cement, petrochemicals, electric power, new energy grid integration, and SVG/STATCOM reactive power compensation fields.

This report studies the global CHB Multilevel Converter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for CHB Multilevel 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 CHB Multilevel Converter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global CHB Multilevel Converter total production and demand, 2021-2032, (Units)

Global CHB Multilevel Converter total production value, 2021-2032, (USD Million)

Global CHB Multilevel Converter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global CHB Multilevel Converter consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: CHB Multilevel Converter domestic production, consumption, key domestic manufacturers and share

Global CHB Multilevel Converter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global CHB Multilevel Converter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global CHB Multilevel Converter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global CHB Multilevel 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 Siemens Energy, Hitachi Energy, Mitsubishi Electric, Leader Harvest, INVT, Hopewind Electric, Nancal Electric, Inovance Technology, WindSun Science & Technology, Guangzhou Zhiguang Electric, 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 CHB Multilevel 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 CHB Multilevel Converter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global CHB Multilevel Converter Market, Segmentation by Type:

Single-phase CHB

Three-phase Modular

Hybrid CHB

### Global CHB Multilevel Converter Market, Segmentation by Voltage Level:

Medium Voltage

High Voltage

Ultra-high Voltage

Global CHB Multilevel Converter Market, Segmentation by Cooling Method:

Air Cooling

Water Cooling

Global CHB Multilevel Converter Market, Segmentation by Application:

Medium-voltage Industrial Motor Drives

Renewable Energy Grid Integration

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Companies Profiled:

Siemens Energy

Hitachi Energy

Mitsubishi Electric

Leader Harvest

INVT

Hopewind Electric

Nancal Electric

Inovance Technology

WindSun Science & Technology

Guangzhou Zhiguang Electric

Key Questions Answered:

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

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