

Global Industrial and Commercial Bidirectional Energy Storage Inverter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Industrial and Commercial Bidirectional Energy Storage Inverter market size is expected to reach \$ 1756 million by 2032, rising at a market growth of 13.6% CAGR during the forecast period (2026-2032).

An Industrial and Commercial Bidirectional Energy Storage Inverter, also known as a Power Conversion System (PCS) for C&I energy storage, is a critical power electronic device that enables bidirectional energy flow between battery storage systems and the grid or loads. It converts alternating current (AC) from the grid to direct current (DC) for battery charging, and inversely converts DC from batteries back to AC for discharge, supporting grid-connected and off-grid operations. These inverters are specifically designed for industrial facilities, commercial buildings, and large-scale applications, enabling peak shaving, load shifting, demand response, and backup power during outages. The global average selling price for industrial and commercial bidirectional energy storage inverters is approximately US\$35,000 per unit. The average sales volume in the base year is estimated at 20.0k units. The industry average gross margin is approximately 35%, with typical ranges between 28% and 42%, reflecting the capital-intensive nature of power electronics manufacturing and the value-added from software-defined grid services. The upstream segment includes manufacturers of IGBT/SiC power semiconductors, transformers, inductors, capacitors, cooling systems, and enclosure components. The midstream segment comprises inverter manufacturers and system integrators that design, assemble, and test complete bidirectional energy storage inverter systems. The downstream segment encompasses industrial facilities, commercial buildings, utility-scale energy storage projects, microgrids, and renewable energy integration projects that utilize these inverters for energy management, cost optimization, and grid stability.

The industrial and commercial bidirectional energy storage inverter market is undergoing rapid transformation driven by the convergence of policy incentives, technological advancement, and evolving business models. The global push toward decarbonization and the rapid expansion of renewable energy integration have placed C&I energy storage inverters at the forefront of power system transformation. The industry is witnessing a significant shift from traditional unidirectional power conversion to intelligent bidirectional systems that enable sophisticated energy management capabilities including peak shaving, load shifting, and frequency regulation. The integration of artificial intelligence and cloud-based energy management platforms is emerging as a key trend, enabling predictive maintenance, real-time optimization, and enhanced grid interaction. The rapid growth of industrial and commercial energy storage deployments is a primary demand driver, with global C&I storage installations expected to reach 167GWh in 2024, up 43% year-over-year. The Asia-Pacific region, led by China, dominates both production and consumption, fueled by aggressive policy support, manufacturing scale, and declining battery costs. The European market is experiencing rapid growth driven by subsidy programs and feed-in tariff phase-outs. However, evolving tariff policies, particularly U.S. tariff measures scheduled for implementation, are injecting considerable uncertainty into global supply chains, prompting manufacturers to reassess sourcing strategies and explore localized production footprints. As energy storage becomes increasingly integral to industrial and commercial operations, the bidirectional energy storage inverter market is positioned for sustained high-growth across both developed and emerging economies.

This report studies the global Industrial and Commercial Bidirectional Energy Storage Inverter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Industrial and Commercial Bidirectional Energy Storage Inverter 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 Industrial and Commercial Bidirectional Energy Storage Inverter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Industrial and Commercial Bidirectional Energy Storage Inverter total production and demand, 2021-2032, (K Units)

Global Industrial and Commercial Bidirectional Energy Storage Inverter total production

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value, 2021-2032, (USD Million)

Global Industrial and Commercial Bidirectional Energy Storage Inverter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Industrial and Commercial Bidirectional Energy Storage Inverter consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Industrial and Commercial Bidirectional Energy Storage Inverter domestic production, consumption, key domestic manufacturers and share

Global Industrial and Commercial Bidirectional Energy Storage Inverter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Industrial and Commercial Bidirectional Energy Storage Inverter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Industrial and Commercial Bidirectional Energy Storage Inverter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Industrial and Commercial Bidirectional Energy Storage Inverter 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 SMA Solar Technology AG, Sungrow Power Supply Co., Ltd., Huawei Digital Power, ABB, GoodWe Technologies Co., Ltd., Delta Electronics, Inc., Eaton Corporation, Dynapower, KACO New Energy GmbH, SolarEdge Technologies, 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 Industrial and Commercial Bidirectional Energy Storage Inverter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (K 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 Industrial and Commercial Bidirectional Energy Storage Inverter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Industrial and Commercial Bidirectional Energy Storage Inverter Market, Segmentation by Type:

Single-phase Power

Three-phase Power

Global Industrial and Commercial Bidirectional Energy Storage Inverter Market, Segmentation by Power Rating:

Below 150 kW

150 ? 200 kW

Above 200 kW

Global Industrial and Commercial Bidirectional Energy Storage Inverter Market,

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Segmentation by System Configuration:

AC-Coupled Systems

DC-Coupled Systems

Hybrid Systems

Global Industrial and Commercial Bidirectional Energy Storage Inverter Market, Segmentation by Application:

Industrial

Commercial

Companies Profiled:

SMA Solar Technology AG

Sungrow Power Supply Co., Ltd.

Huawei Digital Power

ABB

GoodWe Technologies Co., Ltd.

Delta Electronics, Inc.

Eaton Corporation

Dynapower

KACO New Energy GmbH

SolarEdge Technologies

Tesla, Inc.

Nidec Corporation

Parker Hannifin Corporation

Ingeteam

TMEIC

Shenzhen Clou Electronics

Inovance Technology

Kehua Data Co., Ltd.

Sineng Electric Co., Ltd.

Sinexcel

NR Electric Co., Ltd.

Beijing Soaring Electric Technology

Guangdong Zhicheng Champion Group

KSTAR

Growatt

Invt

Key Questions Answered:

1. How big is the global Industrial and Commercial Bidirectional Energy Storage Inverter market?
2. What is the demand of the global Industrial and Commercial Bidirectional Energy Storage Inverter market?
3. What is the year over year growth of the global Industrial and Commercial

Bidirectional Energy Storage Inverter market?

4. What is the production and production value of the global Industrial and Commercial Bidirectional Energy Storage Inverter market?

5. Who are the key producers in the global Industrial and Commercial Bidirectional Energy Storage Inverter market?

6. What are the growth factors driving the market demand?

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