

Global Bidirectional Power Supply Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bidirectional Power Supply market size is expected to reach \$ 8183 million by 2032, rising at a market growth of 11.4% CAGR during the forecast period (2026-2032).

In 2025, global Bidirectional Power Supply production reached 1,300.70 k units, with an average price of USD 2,860 per unit.

The industry gross profit margin ranges from 34% to 50%.

Global production capacity in 2025 was about 1,734.27 k units.

Bidirectional Power Supply is an energy converter that can realize two-way flow of electric energy, supporting both forward output and reverse feedback to grid. It features high efficiency, fast response and grid compatibility, used in energy storage, electric vehicles, test equipment and industrial power.

The industrial chain includes upstream IGBT/SiC modules, capacitors, inductors, drivers and control chips. Midstream involves topology design, assembly, testing and system integration. Downstream applications include energy storage systems, EV chargers, test power supplies, industrial power and microgrids.

The market is driven by energy storage, EV charging and test power demand.

Bidirectional energy flow improves energy utilization and supports peak shaving. High efficiency and wide voltage range expand applications. Technological progress of SiC enhances performance. Future development focuses on high power density, digitization and modularization.

This report studies the global Bidirectional Power Supply production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bidirectional Power Supply 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 Bidirectional Power Supply that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Bidirectional Power Supply total production and demand, 2021-2032, (Units)

Global Bidirectional Power Supply total production value, 2021-2032, (USD Million)

Global Bidirectional Power Supply production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Bidirectional Power Supply consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Bidirectional Power Supply domestic production, consumption, key domestic manufacturers and share

Global Bidirectional Power Supply production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Bidirectional Power Supply production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Bidirectional Power Supply production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Bidirectional Power Supply 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 Matsusada Precision, EA Elektro-Automatik, ITECH Electronics, MEAN WELL, Keysight, KIKUSUI ELECTRONICS, CINERGIA, RECOM Power, Chroma ATE, Adaptive Power Systems, 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 Bidirectional Power Supply 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 Bidirectional Power Supply Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bidirectional Power Supply Market, Segmentation by Type:

5KW-30KW

30KW-75KW

75-105KW

Others (Below 5KW and Above 105KW)

Global Bidirectional Power Supply Market, Segmentation by Power Rating:

Low Power Bidirectional Supply

Medium Power Bidirectional Supply

High Power Bidirectional Supply

Global Bidirectional Power Supply Market, Segmentation by Control Mode:

Programmable Bidirectional Supply

Digital Controlled Power Supply

Smart Grid Bidirectional Supply

Global Bidirectional Power Supply Market, Segmentation by Application:

Energy Storage Industry

Electric Vehicle Industry

Power Electronics Industry

Other

Companies Profiled:

Matsusada Precision

EA Elektro-Automatik

ITECH Electronics

MEAN WELL

Keysight

KIKUSUI ELECTRONICS

CINERGIA

RECOM Power

Chroma ATE

Adaptive Power Systems

Rohde & Schwarz

ET System Electronic GmbH

ETPS (Elba Electronics)

Delta Elektronika

Power4Test GmbH

Regatron AG

Key Questions Answered:

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

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