

Global Bidirectional Power Supply Market Growth 2026-2032

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Abstracts

The global Bidirectional Power Supply market size is predicted to grow from US\$ 3639 million in 2025 to US\$ 8082 million in 2032; it is expected to grow at a CAGR of 12.1% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Bidirectional Power Supply Industry Forecast" looks at past sales and reviews total world Bidirectional Power Supply sales in 2025, providing a comprehensive analysis by region and market sector of projected Bidirectional Power Supply sales for 2026 through 2032. With Bidirectional Power Supply sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Bidirectional Power Supply industry.

This Insight Report provides a comprehensive analysis of the global Bidirectional Power Supply landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Bidirectional Power Supply portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Bidirectional Power Supply market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Bidirectional Power Supply and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Bidirectional Power Supply.

This report presents a comprehensive overview, market shares, and growth opportunities of Bidirectional Power Supply market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

5KW-30KW

30KW-75KW

75-105KW

Others (Below 5KW and Above 105KW)

Segmentation by Power Rating:

Low Power Bidirectional Supply

Medium Power Bidirectional Supply

High Power Bidirectional Supply

Segmentation by Control Mode:

Programmable Bidirectional Supply

Digital Controlled Power Supply

Smart Grid Bidirectional Supply

Segmentation by Application:

Energy Storage Industry

Electric Vehicle Industry

Power Electronics Industry

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Bidirectional Power Supply market?

What factors are driving Bidirectional Power Supply market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Bidirectional Power Supply market opportunities vary by end market size?

How does Bidirectional Power Supply break out by Type, by Application?

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