

Global Bidirectional Power Supply Market Research Report 2025(Status and Outlook)

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Abstracts

Report Overview

Bidirectional power supplies typically combine AC-DC converters, DC-DC converters, and regenerative electronic loads in a rack-mount unit enclosure. The most common bidirectional power supply voltages on the market are 80V-1500V, below 80V and 1500V-2000V, and the power ranges are 5KW-30KW, 30KW-75KW, 75-105KW, etc. A traditional electronic load converts the energy delivered to it into heat. At high power levels, large heat sinks are required for proper thermal management. Conversely, a regenerative electronic load in a bidirectional power supply can return most of the electronic energy sent to it back to a source, such as the grid or battery. It can perform so-called two-quadrant power tests, operating simultaneously as a power supply and as an electronic load or receiver. By returning electricity rather than converting it to heat, bidirectional DC power supplies achieve greater efficiency and can handle higher power levels in a smaller size and weight than traditional separate power supplies and electronic loads. Some commercial bidirectional DC power supplies can operate at 90% efficiency or higher, which means that only 10% of the test power is lost as heat or wasted energy. This also usually translates to a lower operating cost for a bidirectional power supply than for a separate DC power supply and load at a given power level. The bidirectional power supply can be programmed for different modes of operation, including constant voltage (CV), constant current (CC), constant power (CP), and constant resistance (CR). The parameter of interest remains constant by automatically adjusting other parameters. Bidirectional DC power supplies can evaluate how changes in supply voltage, current, or power affect DUT performance. For example, for any mobile electronic device operating on battery power, a rechargeable battery with a low state of charge (SOC) may suffer from voltage dips as its stored energy decreases. Bidirectional DC power supplies are often used in CV or CC mode to simulate a DUT's

rechargeable battery to better understand how a device or circuit will behave when its voltage fluctuates or drops below its nominal operating current or power level. The use of CV or CC mode also allows rechargeable batteries to be tested without the danger of overcharging or overheating the battery being tested. A regenerative load within the bidirectional DC power supply allows unused power from the DUT to be returned to its power source for high operating efficiency. Due to its bidirectional capability, the regenerative DC power supply simplifies the testing of components such as motor inverters, batteries, bidirectional on-board chargers (BOBCs), and bidirectional DC-DC converters without the need to test reverse current like traditional DC power supplies Toggle connections. As an example of power testing versatility and high efficiency, Elektro-Automatik's EA-PSB 10000 30 kW programmable bidirectional DC power supply saves on separate power supplies and electronic loads by integrating them with a versatile function generator. Weight and dimensions in a single 4U high, 19 inches. Rack mount enclosure. The devices in this series are rated for a maximum voltage of 60 to 2000 VDC, a maximum current rating of 40 to 1000 A, and each device has a power rating of up to 30 kW. An example of this series we carry is the EA PSB10080-1000, which provides 30 kW of power and 80V. To facilitate connection to the grid worldwide, the bidirectional DC power supply contains an active power factor correction (PFC) circuit, designed for three-phase connection to power between 380 to 480 VAC and 208-VAC, suitable for use in the United States For those who prefer A person who controls settings on devices that provide knobs for adjusting voltage, current, power, and resistance, as well as a 5-inch diameter color thin-film transistor (TFT) touchscreen. Chroma's 62000D Series Programmable Bidirectional DC Power Supplies come in smaller enclosures, each housed in a 3U high, 19" wide rack mount enclosure. The series includes units with maximum voltage ratings from 100 to 1800 VDC, maximum currents from 40 to 540 A, and maximum powers from 6 to 18 kW, which can be used as regenerative loads or power sources and automatically switch from power source to detection of exceeding the programmed power. load at a flat voltage. An example of this series we carry is the Chroma 62180D-1800, which offers a wide input power range from three-phase 200Vac to 480Vac input. Multiple units can be interconnected in parallel and series (master/slave control) to achieve output test levels up to 180 kW. These programmable bidirectional DC power supplies provide better than 91% typical source and load (sink) efficiency for low power models; for most models, voltage can be set to 10-mV resolution and current can be set to 10-mA resolution . Voltage regulation on most models is within ?0.01% of full scale (FS), while current remains within ?0.05% FS on most models. These units feature near-instant transition from source to load characteristics, a typical transient response time of 1.5 ms, and support flexible voltage and current slew rate control with built-in auto-sequencing. Keysight's RP79000 Series regenerative power systems are bidirectional power

supplies equipped with safety mechanisms to protect the DUT and operator. These compact rack mount units are available for 200/208 VAC or 400/480 VAC input power and maximum ratings of 2000 VDC, 800 A and 20 kW. They can draw up to 100% of rated current for extended periods of time without degrading output power characteristics when transferring from source to load. Noise and ripple are less than 200 mA in CC mode for all models. An example of this series we carry is the Keysight RP7935A, which offers a voltage range of 0 to 80V and a current range of 0 to 250A.

This report provides a deep insight into the global Bidirectional Power Supply market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Bidirectional Power Supply Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Bidirectional Power Supply market in any manner.

Global Bidirectional Power Supply Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

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

Market Segmentation (by Type)

5KW-30KW
30KW-75KW
75-105KW
Others (Below 5KW and Above 105KW)

Market Segmentation (by Application)

In-Vehicle Inverters and Converters
Motors and Car Chargers
Solar and Wind Power
Bidirectional DC-DC Converter
Battery Test
Other

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments

Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Bidirectional Power Supply Market
Overview of the regional outlook of the Bidirectional Power Supply Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Bidirectional Power Supply Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Bidirectional Power Supply, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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