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Global Bidirectional Charging Units Market Growth 2025-2031

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Abstracts

The global Bidirectional Charging Units market size is predicted to grow from US$ 484 million in 2025 to US$ 746 million in 2031; it is expected to grow at a CAGR of 7.5% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Bidirectional Charging Units are advanced electric vehicle (EV) charging systems that allow for two-way power flow—both charging the EV battery (grid-to-vehicle, G2V) and discharging energy from the EV battery back to the grid or a building (vehicle-to-grid, V2G; or vehicle-to-home, V2H). Unlike traditional one-way chargers, these systems support energy export, enabling EVs to act as mobile energy storage units that can supply power during peak demand, outages, or to optimize energy costs. Bidirectional Charging Units are a critical component in smart grid infrastructure and distributed energy management systems. They support applications such as load balancing, renewable energy integration, demand response, and backup power.

Bidirectional Charging Units typically offer power outputs ranging from 3.7 kW to 22 kW for AC models and 10 kW to 150 kW for DC units, supporting both charging and discharging functions. They operate within voltage ranges of 120–240V AC or 300–1000V DC, with current ratings between 16 A and 200 A, and efficiency levels of 95% or higher. These units support communication standards such as OCPP 1.6/2.0, ISO 15118, and Modbus, and are compatible with CHAdeMO and CCS (Combo) charging protocols. Common mounting options include wall-mounted, floor-standing, or pedestal configurations, with environmental ratings of IP54 to IP66 for indoor or outdoor

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use. They comply with international certifications such as UL, CE, and IEC 61851, and operate reliably in ambient temperatures ranging from -20°C to 50°C.

LP Information, Inc. (LPI) ' newest research report, the “Bidirectional Charging Units Industry Forecast” looks at past sales and reviews total world Bidirectional Charging Units sales in 2024, providing a comprehensive analysis by region and market sector of projected Bidirectional Charging Units sales for 2025 through 2031. With Bidirectional Charging Units sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Bidirectional Charging Units industry.

This Insight Report provides a comprehensive analysis of the global Bidirectional Charging Units 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 Charging Units portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Bidirectional Charging Units market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Bidirectional Charging Units 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 Charging Units.

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

Segmentation by Type:

AC Bidirectional Chargers

DC Bidirectional Chargers

Segmentation by Application:

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Vehicle-to-Home (V2H)

Vehicle-to-Grid (V2G)

Vehicle-to-Building (V2B)

Vehicle-to-Load (V2L)

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

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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.

Wallbox

Delta Electronics

Siemens

Nissan

EVTEC

Nuvve

OVO Energy

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Hitachi Energy

Enel Group

Mobility House

ABB

Rheinmetall

Heliox

Ideal Power

Rhombus Energy

Ideal Power

Kempower

JetCharge

Key Questions Addressed in this Report

What is the 10-year outlook for the global Bidirectional Charging Units market?
What factors are driving Bidirectional Charging Units market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Bidirectional Charging Units market opportunities vary by end market size?
How does Bidirectional Charging Units break out by Type, by Application?

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