

# Global Bidirectional Charging Units Market Research Report 2026(Status and Outlook)

<https://marketpublishers.com/r/G1597B207B8EEN.html>

Date: March 2026

Pages: 171

Price: US\$ 3,200.00 (Single User License)

ID: G1597B207B8EEN

## Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Bidirectional Charging Units competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. 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 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.

The global Bidirectional Charging Units market size was estimated at USD 473.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 7.20%

during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Bidirectional Charging Units market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Bidirectional Charging Units market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Bidirectional Charging Units market.

### **Global Bidirectional Charging Units Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

Wallbox  
Delta Electronics  
Siemens  
Nissan  
EVTEC  
Nuvve  
OVO Energy  
Hitachi Energy  
Enel Group  
Mobility House  
ABB  
Rheinmetall  
Heliox  
Ideal Power  
Rhombus Energy  
Ideal Power  
Kempower  
JetCharge

### **Market Segmentation (by Type)**

AC Bidirectional Chargers  
DC Bidirectional Chargers

### **Market Segmentation (by Application)**

Vehicle-to-Home (V2H)  
Vehicle-to-Grid (V2G)  
Vehicle-to-Building (V2B)  
Vehicle-to-Load (V2L)

### **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 Charging Units Market

Overview of the regional outlook of the Bidirectional Charging Units 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 Charging Units 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 Charging Units, 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**

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

## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

- 1.1 Market Definition and Statistical Scope of Bidirectional Charging Units
- 1.2 Key Market Segments
  - 1.2.1 Bidirectional Charging Units Segment by Type
  - 1.2.2 Bidirectional Charging Units Segment by Application
- 1.3 Methodology & Sources of Information
  - 1.3.1 Research Methodology
  - 1.3.2 Research Process
  - 1.3.3 Market Breakdown and Data Triangulation
  - 1.3.4 Base Year
  - 1.3.5 Report Assumptions & Caveats
- 1.4 Key Data of Global Auto Market
  - 1.4.1 Global Automobile Production by Country
  - 1.4.2 Global Automobile Production by Type

### **2 BIDIRECTIONAL CHARGING UNITS MARKET OVERVIEW**

- 2.1 Global Market Overview
  - 2.1.1 Global Bidirectional Charging Units Market Size (M USD) Estimates and Forecasts (2020-2035)
  - 2.1.2 Global Bidirectional Charging Units Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

### **3 BIDIRECTIONAL CHARGING UNITS MARKET COMPETITIVE LANDSCAPE**

- 3.1 Company Assessment Quadrant
- 3.2 Global Bidirectional Charging Units Product Life Cycle
- 3.3 Global Bidirectional Charging Units Sales by Manufacturers (2020-2025)
- 3.4 Global Bidirectional Charging Units Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Bidirectional Charging Units Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Bidirectional Charging Units Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Bidirectional Charging Units Market Competitive Situation and Trends

- 3.8.1 Bidirectional Charging Units Market Concentration Rate
- 3.8.2 Global 5 and 10 Largest Bidirectional Charging Units Players Market Share by Revenue
- 3.8.3 Mergers & Acquisitions, Expansion

## **4 BIDIRECTIONAL CHARGING UNITS INDUSTRY CHAIN ANALYSIS**

- 4.1 Bidirectional Charging Units Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

## **5 THE DEVELOPMENT AND DYNAMICS OF BIDIRECTIONAL CHARGING UNITS MARKET**

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
  - 5.4.1 New Product Developments
  - 5.4.2 Mergers & Acquisitions
  - 5.4.3 Expansions
  - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
  - 5.5.1 Industry Policies Analysis
  - 5.5.2 Economic Environment Analysis
  - 5.5.3 Social Environment Analysis
  - 5.5.4 Technological Environment Analysis
- 5.6 Global Bidirectional Charging Units Market Porter's Five Forces Analysis
  - 5.6.1 Global Trade Frictions
  - 5.6.2 U.S. Tariff Policy ? April 2025
  - 5.6.3 Global Trade Frictions and Their Impacts to Bidirectional Charging Units Market
- 5.7 ESG Ratings of Leading Companies

## **6 BIDIRECTIONAL CHARGING UNITS MARKET SEGMENTATION BY TYPE**

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Bidirectional Charging Units Sales Market Share by Type (2020-2025)
- 6.3 Global Bidirectional Charging Units Market Size by Type (2020-2025)

## 6.4 Global Bidirectional Charging Units Price by Type (2020-2025)

## **7 BIDIRECTIONAL CHARGING UNITS MARKET SEGMENTATION BY APPLICATION**

### 7.1 Evaluation Matrix of Segment Market Development Potential (Application)

### 7.2 Global Bidirectional Charging Units Market Sales by Application (2020-2025)

### 7.3 Global Bidirectional Charging Units Market Size (M USD) by Application (2020-2025)

### 7.4 Global Bidirectional Charging Units Sales Growth Rate by Application (2020-2025)

## **8 BIDIRECTIONAL CHARGING UNITS MARKET SALES BY REGION**

### 8.1 Global Bidirectional Charging Units Sales by Region

#### 8.1.1 Global Bidirectional Charging Units Sales by Region

#### 8.1.2 Global Bidirectional Charging Units Sales Market Share by Region

### 8.2 Global Bidirectional Charging Units Market Size by Region

#### 8.2.1 Global Bidirectional Charging Units Market Size by Region

#### 8.2.2 Global Bidirectional Charging Units Market Size by Region

### 8.3 North America

#### 8.3.1 North America Bidirectional Charging Units Sales by Country

#### 8.3.2 North America Bidirectional Charging Units Market Size by Country

#### 8.3.3 U.S. Market Overview

#### 8.3.4 Canada Market Overview

#### 8.3.5 Mexico Market Overview

### 8.4 Europe

#### 8.4.1 Europe Bidirectional Charging Units Sales by Country

#### 8.4.2 Europe Bidirectional Charging Units Market Size by Country

#### 8.4.3 Germany Market Overview

#### 8.4.4 France Market Overview

#### 8.4.5 U.K. Market Overview

#### 8.4.6 Italy Market Overview

#### 8.4.7 Spain Market Overview

### 8.5 Asia Pacific

#### 8.5.1 Asia Pacific Bidirectional Charging Units Sales by Region

#### 8.5.2 Asia Pacific Bidirectional Charging Units Market Size by Region

#### 8.5.3 China Market Overview

#### 8.5.4 Japan Market Overview

#### 8.5.5 South Korea Market Overview

- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
  - 8.6.1 South America Bidirectional Charging Units Sales by Country
  - 8.6.2 South America Bidirectional Charging Units Market Size by Country
  - 8.6.3 Brazil Market Overview
  - 8.6.4 Argentina Market Overview
  - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
  - 8.7.1 Middle East and Africa Bidirectional Charging Units Sales by Region
  - 8.7.2 Middle East and Africa Bidirectional Charging Units Market Size by Region
  - 8.7.3 Saudi Arabia Market Overview
  - 8.7.4 UAE Market Overview
  - 8.7.5 Egypt Market Overview
  - 8.7.6 Nigeria Market Overview
  - 8.7.7 South Africa Market Overview

## **9 BIDIRECTIONAL CHARGING UNITS MARKET PRODUCTION BY REGION**

- 9.1 Global Production of Bidirectional Charging Units by Region(2020-2025)
- 9.2 Global Bidirectional Charging Units Revenue Market Share by Region (2020-2025)
- 9.3 Global Bidirectional Charging Units Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Bidirectional Charging Units Production
  - 9.4.1 North America Bidirectional Charging Units Production Growth Rate (2020-2025)
  - 9.4.2 North America Bidirectional Charging Units Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Bidirectional Charging Units Production
  - 9.5.1 Europe Bidirectional Charging Units Production Growth Rate (2020-2025)
  - 9.5.2 Europe Bidirectional Charging Units Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Bidirectional Charging Units Production (2020-2025)
  - 9.6.1 Japan Bidirectional Charging Units Production Growth Rate (2020-2025)
  - 9.6.2 Japan Bidirectional Charging Units Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Bidirectional Charging Units Production (2020-2025)
  - 9.7.1 China Bidirectional Charging Units Production Growth Rate (2020-2025)
  - 9.7.2 China Bidirectional Charging Units Production, Revenue, Price and Gross Margin (2020-2025)

## **10 KEY COMPANIES PROFILE**

### 10.1 Wallbox

- 10.1.1 Wallbox Basic Information
- 10.1.2 Wallbox Bidirectional Charging Units Product Overview
- 10.1.3 Wallbox Bidirectional Charging Units Product Market Performance
- 10.1.4 Wallbox Business Overview
- 10.1.5 Wallbox SWOT Analysis
- 10.1.6 Wallbox Recent Developments

### 10.2 Delta Electronics

- 10.2.1 Delta Electronics Basic Information
- 10.2.2 Delta Electronics Bidirectional Charging Units Product Overview
- 10.2.3 Delta Electronics Bidirectional Charging Units Product Market Performance
- 10.2.4 Delta Electronics Business Overview
- 10.2.5 Delta Electronics SWOT Analysis
- 10.2.6 Delta Electronics Recent Developments

### 10.3 Siemens

- 10.3.1 Siemens Basic Information
- 10.3.2 Siemens Bidirectional Charging Units Product Overview
- 10.3.3 Siemens Bidirectional Charging Units Product Market Performance
- 10.3.4 Siemens Business Overview
- 10.3.5 Siemens SWOT Analysis
- 10.3.6 Siemens Recent Developments

### 10.4 Nissan

- 10.4.1 Nissan Basic Information
- 10.4.2 Nissan Bidirectional Charging Units Product Overview
- 10.4.3 Nissan Bidirectional Charging Units Product Market Performance
- 10.4.4 Nissan Business Overview
- 10.4.5 Nissan Recent Developments

### 10.5 EVTEC

- 10.5.1 EVTEC Basic Information
- 10.5.2 EVTEC Bidirectional Charging Units Product Overview
- 10.5.3 EVTEC Bidirectional Charging Units Product Market Performance
- 10.5.4 EVTEC Business Overview
- 10.5.5 EVTEC Recent Developments

### 10.6 Nuvve

- 10.6.1 Nuvve Basic Information
- 10.6.2 Nuvve Bidirectional Charging Units Product Overview

- 10.6.3 Nuvve Bidirectional Charging Units Product Market Performance
- 10.6.4 Nuvve Business Overview
- 10.6.5 Nuvve Recent Developments
- 10.7 OVO Energy
  - 10.7.1 OVO Energy Basic Information
  - 10.7.2 OVO Energy Bidirectional Charging Units Product Overview
  - 10.7.3 OVO Energy Bidirectional Charging Units Product Market Performance
  - 10.7.4 OVO Energy Business Overview
  - 10.7.5 OVO Energy Recent Developments
- 10.8 Hitachi Energy
  - 10.8.1 Hitachi Energy Basic Information
  - 10.8.2 Hitachi Energy Bidirectional Charging Units Product Overview
  - 10.8.3 Hitachi Energy Bidirectional Charging Units Product Market Performance
  - 10.8.4 Hitachi Energy Business Overview
  - 10.8.5 Hitachi Energy Recent Developments
- 10.9 Enel Group
  - 10.9.1 Enel Group Basic Information
  - 10.9.2 Enel Group Bidirectional Charging Units Product Overview
  - 10.9.3 Enel Group Bidirectional Charging Units Product Market Performance
  - 10.9.4 Enel Group Business Overview
  - 10.9.5 Enel Group Recent Developments
- 10.10 Mobility House
  - 10.10.1 Mobility House Basic Information
  - 10.10.2 Mobility House Bidirectional Charging Units Product Overview
  - 10.10.3 Mobility House Bidirectional Charging Units Product Market Performance
  - 10.10.4 Mobility House Business Overview
  - 10.10.5 Mobility House Recent Developments
- 10.11 ABB
  - 10.11.1 ABB Basic Information
  - 10.11.2 ABB Bidirectional Charging Units Product Overview
  - 10.11.3 ABB Bidirectional Charging Units Product Market Performance
  - 10.11.4 ABB Business Overview
  - 10.11.5 ABB Recent Developments
- 10.12 Rheinmetall
  - 10.12.1 Rheinmetall Basic Information
  - 10.12.2 Rheinmetall Bidirectional Charging Units Product Overview
  - 10.12.3 Rheinmetall Bidirectional Charging Units Product Market Performance
  - 10.12.4 Rheinmetall Business Overview
  - 10.12.5 Rheinmetall Recent Developments

## 10.13 Heliox

10.13.1 Heliox Basic Information

10.13.2 Heliox Bidirectional Charging Units Product Overview

10.13.3 Heliox Bidirectional Charging Units Product Market Performance

10.13.4 Heliox Business Overview

10.13.5 Heliox Recent Developments

## 10.14 Ideal Power

10.14.1 Ideal Power Basic Information

10.14.2 Ideal Power Bidirectional Charging Units Product Overview

10.14.3 Ideal Power Bidirectional Charging Units Product Market Performance

10.14.4 Ideal Power Business Overview

10.14.5 Ideal Power Recent Developments

## 10.15 Rhombus Energy

10.15.1 Rhombus Energy Basic Information

10.15.2 Rhombus Energy Bidirectional Charging Units Product Overview

10.15.3 Rhombus Energy Bidirectional Charging Units Product Market Performance

10.15.4 Rhombus Energy Business Overview

10.15.5 Rhombus Energy Recent Developments

## 10.16 Ideal Power

10.16.1 Ideal Power Basic Information

10.16.2 Ideal Power Bidirectional Charging Units Product Overview

10.16.3 Ideal Power Bidirectional Charging Units Product Market Performance

10.16.4 Ideal Power Business Overview

10.16.5 Ideal Power Recent Developments

## 10.17 Kempower

10.17.1 Kempower Basic Information

10.17.2 Kempower Bidirectional Charging Units Product Overview

10.17.3 Kempower Bidirectional Charging Units Product Market Performance

10.17.4 Kempower Business Overview

10.17.5 Kempower Recent Developments

## 10.18 JetCharge

10.18.1 JetCharge Basic Information

10.18.2 JetCharge Bidirectional Charging Units Product Overview

10.18.3 JetCharge Bidirectional Charging Units Product Market Performance

10.18.4 JetCharge Business Overview

10.18.5 JetCharge Recent Developments

## **11 BIDIRECTIONAL CHARGING UNITS MARKET FORECAST BY REGION**

- 11.1 Global Bidirectional Charging Units Market Size Forecast
- 11.2 Global Bidirectional Charging Units Market Forecast by Region
  - 11.2.1 North America Market Size Forecast by Country
  - 11.2.2 Europe Bidirectional Charging Units Market Size Forecast by Country
  - 11.2.3 Asia Pacific Bidirectional Charging Units Market Size Forecast by Region
  - 11.2.4 South America Bidirectional Charging Units Market Size Forecast by Country
  - 11.2.5 Middle East and Africa Forecasted Sales of Bidirectional Charging Units by Country

## **12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)**

- 12.1 Global Bidirectional Charging Units Market Forecast by Type (2026-2035)
  - 12.1.1 Global Forecasted Sales of Bidirectional Charging Units by Type (2026-2035)
  - 12.1.2 Global Bidirectional Charging Units Market Size Forecast by Type (2026-2035)
  - 12.1.3 Global Forecasted Price of Bidirectional Charging Units by Type (2026-2035)
- 12.2 Global Bidirectional Charging Units Market Forecast by Application (2026-2035)
  - 12.2.1 Global Bidirectional Charging Units Sales (K Units) Forecast by Application
  - 12.2.2 Global Bidirectional Charging Units Market Size (M USD) Forecast by Application (2026-2035)

## **13 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global Automobile Production by Region (Units)
- Table 4. Market Share and Development Potential of Automobiles by Region
- Table 5. Global Automobile Production by Country (Units)
- Table 6. Market Share and Development Potential of Automobiles by Country
- Table 7. Motor Vehicle Production Market Share by Type (2024)
- Table 8. Global Automobile Production by Type
- Table 9. Market Share and Development Potential of Automobiles by Type
- Table 10. Global Bidirectional Charging Units Market Size by Type (M USD)
- Table 11. Global Bidirectional Charging Units Market Size by Application
- Table 12. Bidirectional Charging Units Market Size Comparison by Region (M USD)
- Table 13. Global Bidirectional Charging Units Sales (K Units) by Manufacturers (2020-2025)
- Table 14. Global Bidirectional Charging Units Sales Market Share by Manufacturers (2020-2025)
- Table 15. Global Bidirectional Charging Units Revenue (M USD) by Manufacturers (2020-2025)
- Table 16. Global Bidirectional Charging Units Revenue Share by Manufacturers (2020-2025)
- Table 17. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Bidirectional Charging Units as of 2025)
- Table 18. Global Market Bidirectional Charging Units Average Price (USD/Unit) of Key Manufacturers (2020-2025)
- Table 19. Manufacturers? Manufacturing Sites, Areas Served
- Table 20. Manufacturers? Product Type
- Table 21. Global Bidirectional Charging Units Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 22. Mergers & Acquisitions, Expansion Plans
- Table 23. Market Overview of Key Raw Materials
- Table 24. Midstream Market Analysis
- Table 25. Downstream Customer Analysis
- Table 26. Key Development Trends
- Table 27. Driving Factors
- Table 28. Bidirectional Charging Units Market Challenges

Table 29. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 30. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 31. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 32. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 33. Global Bidirectional Charging Units Sales by Type (K Units)

Table 34. Global Bidirectional Charging Units Market Size by Type (M USD)

Table 35. Global Bidirectional Charging Units Sales (K Units) by Type (2020-2025)

Table 36. Global Bidirectional Charging Units Sales Market Share by Type (2020-2025)

Table 37. Global Bidirectional Charging Units Market Size (M USD) by Type (2020-2025)

Table 38. Global Bidirectional Charging Units Market Share by Type (2020-2025)

Table 39. Global Bidirectional Charging Units Price (USD/Unit) by Type (2020-2025)

Table 40. Global Bidirectional Charging Units Sales (K Units) by Application

Table 41. Global Bidirectional Charging Units Market Size by Application

Table 42. Global Bidirectional Charging Units Sales by Application (2020-2025) & (K Units)

Table 43. Global Bidirectional Charging Units Sales Market Share by Application (2020-2025)

Table 44. Global Bidirectional Charging Units Market Size by Application (2020-2025) & (M USD)

Table 45. Global Bidirectional Charging Units Market Share by Application (2020-2025)

Table 46. Global Bidirectional Charging Units Sales Growth Rate by Application (2020-2025)

Table 47. Global Bidirectional Charging Units Sales by Region (2020-2025) & (K Units)

Table 48. Global Bidirectional Charging Units Sales Market Share by Region (2020-2025)

Table 49. Global Bidirectional Charging Units Market Size by Region (2020-2025) & (M USD)

Table 50. Global Bidirectional Charging Units Market Size by Region (2020-2025)

Table 51. North America Bidirectional Charging Units Sales by Country (2020-2025) & (K Units)

Table 52. North America Bidirectional Charging Units Market Size by Country (2020-2025) & (M USD)

Table 53. Europe Bidirectional Charging Units Sales by Country (2020-2025) & (K Units)

Table 54. Europe Bidirectional Charging Units Market Size by Country (2020-2025) & (M USD)

Table 55. Asia Pacific Bidirectional Charging Units Sales by Region (2020-2025) & (K

Units)

Table 56. Asia Pacific Bidirectional Charging Units Market Size by Region (2020-2025) & (M USD)

Table 57. South America Bidirectional Charging Units Sales by Country (2020-2025) & (K Units)

Table 58. South America Bidirectional Charging Units Market Size by Country (2020-2025) & (M USD)

Table 59. Middle East and Africa Bidirectional Charging Units Sales by Region (2020-2025) & (K Units)

Table 60. Middle East and Africa Bidirectional Charging Units Market Size by Region (2020-2025) & (M USD)

Table 61. Global Bidirectional Charging Units Production (K Units) by Region(2020-2025)

Table 62. Global Bidirectional Charging Units Revenue (US\$ Million) by Region (2020-2025)

Table 63. Global Bidirectional Charging Units Revenue Market Share by Region (2020-2025)

Table 64. Global Bidirectional Charging Units Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. North America Bidirectional Charging Units Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 66. Europe Bidirectional Charging Units Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 67. Japan Bidirectional Charging Units Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 68. China Bidirectional Charging Units Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 69. Wallbox Basic Information

Table 70. Wallbox Bidirectional Charging Units Product Overview

Table 71. Wallbox Bidirectional Charging Units Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 72. Wallbox Business Overview

Table 73. Wallbox SWOT Analysis

Table 74. Wallbox Recent Developments

Table 75. Delta Electronics Basic Information

Table 76. Delta Electronics Bidirectional Charging Units Product Overview

Table 77. Delta Electronics Bidirectional Charging Units Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 78. Delta Electronics Business Overview

- Table 79. Delta Electronics SWOT Analysis
- Table 80. Delta Electronics Recent Developments
- Table 81. Siemens Basic Information
- Table 82. Siemens Bidirectional Charging Units Product Overview
- Table 83. Siemens Bidirectional Charging Units Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 84. Siemens Business Overview
- Table 85. Siemens SWOT Analysis
- Table 86. Siemens Recent Developments
- Table 87. Nissan Basic Information
- Table 88. Nissan Bidirectional Charging Units Product Overview
- Table 89. Nissan Bidirectional Charging Units Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 90. Nissan Business Overview
- Table 91. Nissan Recent Developments
- Table 92. EVTEC Basic Information
- Table 93. EVTEC Bidirectional Charging Units Product Overview
- Table 94. EVTEC Bidirectional Charging Units Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 95. EVTEC Business Overview
- Table 96. EVTEC Recent Developments
- Table 97. Nuvve Basic Information
- Table 98. Nuvve Bidirectional Charging Units Product Overview
- Table 99. Nuvve Bidirectional Charging Units Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 100. Nuvve Business Overview
- Table 101. Nuvve Recent Developments
- Table 102. OVO Energy Basic Information
- Table 103. OVO Energy Bidirectional Charging Units Product Overview
- Table 104. OVO Energy Bidirectional Charging Units Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 105. OVO Energy Business Overview
- Table 106. OVO Energy Recent Developments
- Table 107. Hitachi Energy Basic Information
- Table 108. Hitachi Energy Bidirectional Charging Units Product Overview
- Table 109. Hitachi Energy Bidirectional Charging Units Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 110. Hitachi Energy Business Overview
- Table 111. Hitachi Energy Recent Developments

- Table 112. Enel Group Basic Information
- Table 113. Enel Group Bidirectional Charging Units Product Overview
- Table 114. Enel Group Bidirectional Charging Units Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 115. Enel Group Business Overview
- Table 116. Enel Group Recent Developments
- Table 117. Mobility House Basic Information
- Table 118. Mobility House Bidirectional Charging Units Product Overview
- Table 119. Mobility House Bidirectional Charging Units Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 120. Mobility House Business Overview
- Table 121. Mobility House Recent Developments
- Table 122. ABB Basic Information
- Table 123. ABB Bidirectional Charging Units Product Overview
- Table 124. ABB Bidirectional Charging Units Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 125. ABB Business Overview
- Table 126. ABB Recent Developments
- Table 127. Rheinmetall Basic Information
- Table 128. Rheinmetall Bidirectional Charging Units Product Overview
- Table 129. Rheinmetall Bidirectional Charging Units Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 130. Rheinmetall Business Overview
- Table 131. Rheinmetall Recent Developments
- Table 132. Heliox Basic Information
- Table 133. Heliox Bidirectional Charging Units Product Overview
- Table 134. Heliox Bidirectional Charging Units Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 135. Heliox Business Overview
- Table 136. Heliox Recent Developments
- Table 137. Ideal Power Basic Information
- Table 138. Ideal Power Bidirectional Charging Units Product Overview
- Table 139. Ideal Power Bidirectional Charging Units Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 140. Ideal Power Business Overview
- Table 141. Ideal Power Recent Developments
- Table 142. Rhombus Energy Basic Information
- Table 143. Rhombus Energy Bidirectional Charging Units Product Overview
- Table 144. Rhombus Energy Bidirectional Charging Units Sales (K Units), Revenue (M

USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 145. Rhombus Energy Business Overview

Table 146. Rhombus Energy Recent Developments

Table 147. Ideal Power Basic Information

Table 148. Ideal Power Bidirectional Charging Units Product Overview

Table 149. Ideal Power Bidirectional Charging Units Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 150. Ideal Power Business Overview

Table 151. Ideal Power Recent Developments

Table 152. Kempower Basic Information

Table 153. Kempower Bidirectional Charging Units Product Overview

Table 154. Kempower Bidirectional Charging Units Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 155. Kempower Business Overview

Table 156. Kempower Recent Developments

Table 157. JetCharge Basic Information

Table 158. JetCharge Bidirectional Charging Units Product Overview

Table 159. JetCharge Bidirectional Charging Units Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 160. JetCharge Business Overview

Table 161. JetCharge Recent Developments

Table 162. Global Bidirectional Charging Units Sales Forecast by Region (2026-2035) & (K Units)

Table 163. Global Bidirectional Charging Units Market Size Forecast by Region (2026-2035) & (M USD)

Table 164. North America Bidirectional Charging Units Sales Forecast by Country (2026-2035) & (K Units)

Table 165. North America Bidirectional Charging Units Market Size Forecast by Country (2026-2035) & (M USD)

Table 166. Europe Bidirectional Charging Units Sales Forecast by Country (2026-2035) & (K Units)

Table 167. Europe Bidirectional Charging Units Market Size Forecast by Country (2026-2035) & (M USD)

Table 168. Asia Pacific Bidirectional Charging Units Sales Forecast by Region (2026-2035) & (K Units)

Table 169. Asia Pacific Bidirectional Charging Units Market Size Forecast by Region (2026-2035) & (M USD)

Table 170. South America Bidirectional Charging Units Sales Forecast by Country (2026-2035) & (K Units)

Table 171. South America Bidirectional Charging Units Market Size Forecast by Country (2026-2035) & (M USD)

Table 172. Middle East and Africa Bidirectional Charging Units Sales Forecast by Country (2026-2035) & (Units)

Table 173. Middle East and Africa Bidirectional Charging Units Market Size Forecast by Country (2026-2035) & (M USD)

Table 174. Global Bidirectional Charging Units Sales Forecast by Type (2026-2035) & (K Units)

Table 175. Global Bidirectional Charging Units Market Size Forecast by Type (2026-2035) & (M USD)

Table 176. Global Bidirectional Charging Units Price Forecast by Type (2026-2035) & (USD/Unit)

Table 177. Global Bidirectional Charging Units Sales (K Units) Forecast by Application (2026-2035)

Table 178. Global Bidirectional Charging Units Market Size Forecast by Application (2026-2035) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of Bidirectional Charging Units
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Motor Vehicle Production (M Units)
- Figure 5. Global Bidirectional Charging Units Market Size (M USD), 2025-2035
- Figure 6. Global Bidirectional Charging Units Market Size (M USD) (2020-2035)
- Figure 7. Global Bidirectional Charging Units Sales (K Units) & (2020-2035)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 9. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 10. Evaluation Matrix of Regional Market Development Potential
- Figure 11. Bidirectional Charging Units Market Size by Country (M USD)
- Figure 12. Company Assessment Quadrant
- Figure 13. Global Bidirectional Charging Units Product Life Cycle
- Figure 14. Bidirectional Charging Units Sales Share by Manufacturers in 2025
- Figure 15. Global Bidirectional Charging Units Revenue Share by Manufacturers in 2025
- Figure 16. Bidirectional Charging Units Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 17. Global Market Bidirectional Charging Units Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 18. The Global 5 and 10 Largest Players: Market Share by Bidirectional Charging Units Revenue in 2025
- Figure 19. Industry Chain Map of Bidirectional Charging Units
- Figure 20. Global Bidirectional Charging Units Market PEST Analysis
- Figure 21. Global Bidirectional Charging Units Market Porter's Five Forces Analysis
- Figure 22. Global Merchandise Trade as a Percentage Of GDP
- Figure 23. US - Imports of Goods by Country
- Figure 24. China Exports by Country
- Figure 25. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 26. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 27. Global Bidirectional Charging Units Market Share by Type
- Figure 28. Sales Market Share of Bidirectional Charging Units by Type (2020-2025)
- Figure 29. Sales Market Share of Bidirectional Charging Units by Type in 2025
- Figure 30. Market Share of Bidirectional Charging Units by Type (2020-2025)
- Figure 31. Market Share of Bidirectional Charging Units by Type in 2025

Figure 32. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 33. Global Bidirectional Charging Units Market Share by Application

Figure 34. Global Bidirectional Charging Units Sales Market Share by Application (2020-2025)

Figure 35. Global Bidirectional Charging Units Sales Market Share by Application in 2025

Figure 36. Global Bidirectional Charging Units Market Share by Application (2020-2025)

Figure 37. Global Bidirectional Charging Units Market Share by Application in 2025

Figure 38. Global Bidirectional Charging Units Sales Growth Rate by Application (2020-2025)

Figure 39. Global Bidirectional Charging Units Sales Market Share by Region (2020-2025)

Figure 40. Global Bidirectional Charging Units Market Size by Region (2020-2025)

Figure 41. North America Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)

Figure 43. North America Bidirectional Charging Units Sales Market Share by Country in 2024

Figure 44. North America Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)

Figure 45. North America Bidirectional Charging Units Market Size by Country in 2024

Figure 46. U.S. Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)

Figure 47. U.S. Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)

Figure 48. Canada Bidirectional Charging Units Sales (K Units) and Growth Rate (2020-2025)

Figure 49. Canada Bidirectional Charging Units Market Size (M USD) and Growth Rate (2020-2025)

Figure 50. Mexico Bidirectional Charging Units Sales (Units) and Growth Rate (2020-2025)

Figure 51. Mexico Bidirectional Charging Units Market Size (Units) and Growth Rate (2020-2025)

Figure 52. Europe Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)

Figure 53. Europe Bidirectional Charging Units Sales Market Share by Country in 2024

Figure 54. Europe Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)

- Figure 55. Europe Bidirectional Charging Units Market Size by Country in 2024
- Figure 56. Germany Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)
- Figure 57. Germany Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 58. France Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)
- Figure 59. France Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 60. U.K. Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)
- Figure 61. U.K. Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 62. Italy Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)
- Figure 63. Italy Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 64. Spain Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)
- Figure 65. Spain Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 66. Asia Pacific Bidirectional Charging Units Sales and Growth Rate (K Units)
- Figure 67. Asia Pacific Bidirectional Charging Units Sales Market Share by Region in 2024
- Figure 68. Asia Pacific Bidirectional Charging Units Market Size by Region in 2024
- Figure 69. China Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)
- Figure 70. China Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 71. Japan Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)
- Figure 72. Japan Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 73. South Korea Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)
- Figure 74. South Korea Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 75. India Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)

Figure 76. India Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)

Figure 77. Southeast Asia Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)

Figure 78. Southeast Asia Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)

Figure 79. South America Bidirectional Charging Units Sales and Growth Rate (K Units)

Figure 80. South America Bidirectional Charging Units Sales Market Share by Country in 2024

Figure 81. South America Bidirectional Charging Units Market Size and Growth Rate (M USD)

Figure 82. South America Bidirectional Charging Units Market Size by Country in 2024

Figure 83. Brazil Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)

Figure 84. Brazil Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)

Figure 85. Argentina Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)

Figure 86. Argentina Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)

Figure 87. Columbia Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)

Figure 88. Columbia Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)

Figure 89. Middle East and Africa Bidirectional Charging Units Sales and Growth Rate (K Units)

Figure 90. Middle East and Africa Bidirectional Charging Units Sales Market Share by Region in 2024

Figure 91. Middle East and Africa Bidirectional Charging Units Market Size and Growth Rate (M USD)

Figure 92. Middle East and Africa Bidirectional Charging Units Market Size by Region in 2024

Figure 93. Saudi Arabia Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)

Figure 94. Saudi Arabia Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)

Figure 95. UAE Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)

Figure 96. UAE Bidirectional Charging Units Market Size and Growth Rate (2020-2025)

& (M USD)

Figure 97. Egypt Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)

Figure 98. Egypt Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)

Figure 99. Nigeria Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)

Figure 100. Nigeria Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)

Figure 101. South Africa Bidirectional Charging Units Sales and Growth Rate (2020-2025) & (K Units)

Figure 102. South Africa Bidirectional Charging Units Market Size and Growth Rate (2020-2025) & (M USD)

Figure 103. Global Bidirectional Charging Units Production Market Share by Region (2020-2025)

Figure 104. North America Bidirectional Charging Units Production (K Units) Growth Rate (2020-2025)

Figure 105. Europe Bidirectional Charging Units Production (K Units) Growth Rate (2020-2025)

Figure 106. Japan Bidirectional Charging Units Production (K Units) Growth Rate (2020-2025)

Figure 107. China Bidirectional Charging Units Production (K Units) Growth Rate (2020-2025)

Figure 108. Global Bidirectional Charging Units Sales Forecast by Volume (2020-2035) & (K Units)

Figure 109. Global Bidirectional Charging Units Market Size Forecast by Value (2020-2035) & (M USD)

Figure 110. Global Bidirectional Charging Units Sales Market Share Forecast by Type (2026-2035)

Figure 111. Global Bidirectional Charging Units Market Share Forecast by Type (2026-2035)

Figure 112. Global Bidirectional Charging Units Sales Forecast by Application (2026-2035)

Figure 113. Global Bidirectional Charging Units Market Share Forecast by Application (2026-2035)

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