

Global Bidirectional EV Chargers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bidirectional EV Chargers market size is expected to reach \$ 1705 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

A bidirectional electric vehicle (EV) charger is an intelligent charging and discharging device capable of facilitating the bidirectional flow of electrical energy among the power grid, the EV's traction battery, and other electrical equipment. By utilizing bidirectional power conversion, battery management communication, and energy control technologies, it enables both EV charging and the supply of power from the vehicle to external loads. Typically composed of a bidirectional AC/DC conversion module, a DC/DC power conversion module, a controller, communication interfaces, a protection system, and an intelligent energy management unit, the device regulates energy input and output based on grid conditions, battery status, and user requirements.

Key Findings

In 2025, global sales of bidirectional EV chargers are projected to reach approximately 101,000 units, with a production capacity of around 170,000 units; the average selling price is estimated at \$7,000–\$10,000 per unit, and the average gross margin at 30%–40%.

V2H represented the largest application segment in early commercialization

Market Trends

The Bidirectional Electric Vehicle Charger industry is transitioning from traditional charging equipment toward integrated energy interaction solutions connecting electric vehicles, renewable energy systems and smart grids. Product development is increasingly focused on higher bidirectional conversion efficiency, intelligent energy management, grid communication capability, safety control and compatibility with distributed energy systems. As electric vehicles become an important component of future energy networks, bidirectional charging technology is evolving from individual vehicle charging applications toward broader energy management scenarios including virtual power plants, residential energy optimization and commercial energy systems.

Market Dynamics

Drivers

The expansion of electric vehicle ownership, increasing demand for distributed energy storage and the development of smart grid infrastructure are key factors driving Bidirectional Electric Vehicle Charger adoption. The growing integration of renewable energy sources, especially residential solar systems, creates demand for technologies that can optimize electricity generation, storage and consumption. Energy management requirements from electric fleets and commercial facilities also support wider deployment of bidirectional charging solutions.

Restraints

The adoption of Bidirectional Electric Vehicle Charger is limited by high equipment costs, complex technical requirements and incomplete commercialization models. Compared with conventional charging equipment, bidirectional systems require more advanced power conversion technology, grid communication functions and safety certification. Differences in charging standards, vehicle compatibility and regional grid regulations may also slow large-scale deployment.

Opportunities

Future market opportunities are emerging from Vehicle-to-Grid services, virtual power plants, residential energy management, commercial energy optimization and integrated solar-storage-charging systems. As battery capacity increases and energy markets become more flexible, electric vehicles can provide additional value as distributed

energy storage resources. The development of intelligent energy platforms and digital grid management systems will create new opportunities for bidirectional charging solutions.

Challenges

The Bidirectional Electric Vehicle Charger industry faces challenges related to standardization, business model development, grid integration requirements and customer acceptance. Large-scale commercialization requires coordination among automobile manufacturers, charging operators, utilities and energy management providers. Companies need to improve interoperability, system reliability and cost efficiency to accelerate market adoption.

Industry Chain Analysis

The Bidirectional Electric Vehicle Charger industry chain includes upstream power electronics components, midstream charger manufacturers and downstream energy application systems. The upstream segment includes power semiconductor devices, converters, control chips, communication modules, charging connectors and electronic components. The midstream sector focuses on bidirectional power conversion design, charging equipment manufacturing, energy management software development, communication protocols and system integration. The downstream market covers residential energy systems, commercial buildings, electric vehicle fleets, smart grids, microgrids and renewable energy storage systems. The value creation of Bidirectional Electric Vehicle Charger is increasingly concentrated in power conversion efficiency, energy management algorithms, grid interaction capability and integrated energy solutions. Hardware manufacturing remains important for reliability and cost control, while software platforms and intelligent energy scheduling capabilities are becoming critical factors influencing product differentiation and long-term profitability.

Segment Insights

Bidirectional Electric Vehicle Charger products can be categorized by energy interaction mode, power level, electrical architecture and application scenario. Among different application modes, V2H currently represents the largest commercialization segment due to its clearer user value and easier deployment in residential energy systems. V2G has higher long-term strategic value but requires stronger grid infrastructure, communication

standards and regulatory support. V2B applications are expanding in commercial buildings and fleet energy management scenarios. From technical perspective, DC bidirectional chargers are positioned for higher-power applications such as grid services and fleet charging, while AC bidirectional chargers are more suitable for residential and small commercial applications. The market is gradually moving toward modular systems combining charging, storage management and energy optimization functions.

Downstream Market Opportunities

Bidirectional Electric Vehicle Charger applications mainly include residential energy management, smart grid services, commercial buildings, electric vehicle fleets, microgrids and renewable energy systems. Residential energy management and fleet charging are currently important commercialization areas, while V2G and virtual power plant applications represent future expansion opportunities. Customers increasingly require charging solutions that provide not only energy supply but also electricity cost optimization, backup power capability and participation in energy management networks.

Regional Insights

Asia Pacific represents a major regional market for Bidirectional Electric Vehicle Charger, supported by rapid electric vehicle adoption, battery technology development and strong charging infrastructure expansion. Japan has relatively mature V2H applications, while China is developing opportunities through large-scale electric vehicle deployment, renewable energy integration and smart energy infrastructure development. South Korea also shows potential through electric vehicle and energy technology advancement. Europe and North America are important markets for V2G and energy management applications. European markets emphasize renewable energy integration, grid flexibility and carbon reduction goals, while North America shows growing interest in residential backup power, fleet energy management and distributed energy solutions. Regional development depends strongly on charging standards, grid policies and energy market structures.

Competitive Landscape Analysis

The Bidirectional Electric Vehicle Charger market includes charging infrastructure

companies, power electronics manufacturers, energy management solution providers and automotive ecosystem participants. Competition is primarily based on bidirectional power conversion technology, energy management software capability, charging network integration, grid communication performance and system reliability. Companies with advantages in power electronics, smart energy platforms and vehicle ecosystem cooperation are better positioned to participate in future market development. The industry is gradually shifting from standalone charging equipment toward integrated solutions combining charging hardware, energy management platforms and grid interaction services.

Report Scope

This report studies the global Bidirectional EV Chargers production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Bidirectional EV Chargers total production and demand, 2021-2032, (Units)

Global Bidirectional EV Chargers total production value, 2021-2032, (USD Million)

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

Global Bidirectional EV Chargers consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Bidirectional EV Chargers domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Bidirectional EV Chargers 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 Wallbox, Fermata Energy, Nuvve, Enphase Energy, Tesla, ChargePoint, Toyota Industries, Nichicon, Mitsubishi Electric, ABB, 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 EV Chargers 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 EV Chargers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Bidirectional EV Chargers Market, Segmentation by Type:

Vehicle-to-Grid Charger

Vehicle-to-Home Charger

Vehicle-to-Building Charger

Vehicle-to-Load Charger

Global Bidirectional EV Chargers Market, Segmentation by Power:

<7kW

7kW–22kW

>22kW

Global Bidirectional EV Chargers Market, Segmentation by Electrical Structure:

Bidirectional AC Charger

Bidirectional DC Charger

Global Bidirectional EV Chargers Market, Segmentation by Application:

Home Energy Management

Smart Grid

Commercial Building Energy Management

Others

Companies Profiled:

Wallbox

Fermata Energy

Nuvve

Enphase Energy

Tesla

ChargePoint

Toyota Industries

Nichicon

Mitsubishi Electric

ABB

Siemens

Schneider Electric

Delta Electronics

Toshiba Energy Systems & Solutions

Star Charge

UUGreenPower

Key Questions Answered

1. How big is the global Bidirectional EV Chargers market?
2. What is the demand of the global Bidirectional EV Chargers market?
3. What is the year over year growth of the global Bidirectional EV Chargers market?
4. What is the total value of the global Bidirectional EV Chargers market?
5. Who are the Major Players in the global Bidirectional EV Chargers market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Bidirectional EV Chargers Introduction
- 1.2 World Bidirectional EV Chargers Supply & Forecast
 - 1.2.1 World Bidirectional EV Chargers Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Bidirectional EV Chargers Production (2021-2032)
 - 1.2.3 World Bidirectional EV Chargers Pricing Trends (2021-2032)
- 1.3 World Bidirectional EV Chargers Production by Region (Based on Production Site)
 - 1.3.1 World Bidirectional EV Chargers Production Value by Region (2021-2032)
 - 1.3.2 World Bidirectional EV Chargers Production by Region (2021-2032)
 - 1.3.3 World Bidirectional EV Chargers Average Price by Region (2021-2032)
 - 1.3.4 North America Bidirectional EV Chargers Production (2021-2032)
 - 1.3.5 Europe Bidirectional EV Chargers Production (2021-2032)
 - 1.3.6 China Bidirectional EV Chargers Production (2021-2032)
 - 1.3.7 Japan Bidirectional EV Chargers Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Bidirectional EV Chargers Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Bidirectional EV Chargers Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Bidirectional EV Chargers Demand (2021-2032)
- 2.2 World Bidirectional EV Chargers Consumption by Region
 - 2.2.1 World Bidirectional EV Chargers Consumption by Region (2021-2026)
 - 2.2.2 World Bidirectional EV Chargers Consumption Forecast by Region (2027-2032)
- 2.3 United States Bidirectional EV Chargers Consumption (2021-2032)
- 2.4 China Bidirectional EV Chargers Consumption (2021-2032)
- 2.5 Europe Bidirectional EV Chargers Consumption (2021-2032)
- 2.6 Japan Bidirectional EV Chargers Consumption (2021-2032)
- 2.7 South Korea Bidirectional EV Chargers Consumption (2021-2032)
- 2.8 ASEAN Bidirectional EV Chargers Consumption (2021-2032)
- 2.9 India Bidirectional EV Chargers Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Bidirectional EV Chargers Production Value by Manufacturer (2021-2026)

- 3.2 World Bidirectional EV Chargers Production by Manufacturer (2021-2026)
- 3.3 World Bidirectional EV Chargers Average Price by Manufacturer (2021-2026)
- 3.4 Bidirectional EV Chargers Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Bidirectional EV Chargers Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Bidirectional EV Chargers in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Bidirectional EV Chargers in 2025
- 3.6 Bidirectional EV Chargers Market: Overall Company Footprint Analysis
 - 3.6.1 Bidirectional EV Chargers Market: Region Footprint
 - 3.6.2 Bidirectional EV Chargers Market: Company Product Type Footprint
 - 3.6.3 Bidirectional EV Chargers Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Bidirectional EV Chargers Production Value Comparison
 - 4.1.1 United States VS China: Bidirectional EV Chargers Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Bidirectional EV Chargers Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Bidirectional EV Chargers Production Comparison
 - 4.2.1 United States VS China: Bidirectional EV Chargers Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Bidirectional EV Chargers Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Bidirectional EV Chargers Consumption Comparison
 - 4.3.1 United States VS China: Bidirectional EV Chargers Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Bidirectional EV Chargers Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Bidirectional EV Chargers Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Bidirectional EV Chargers Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Bidirectional EV Chargers Production Value (2021-2026)

4.4.3 United States Based Manufacturers Bidirectional EV Chargers Production (2021-2026)

4.5 China Based Bidirectional EV Chargers Manufacturers and Market Share

4.5.1 China Based Bidirectional EV Chargers Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Bidirectional EV Chargers Production Value (2021-2026)

4.5.3 China Based Manufacturers Bidirectional EV Chargers Production (2021-2026)

4.6 Rest of World Based Bidirectional EV Chargers Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Bidirectional EV Chargers Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Bidirectional EV Chargers Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Bidirectional EV Chargers Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Bidirectional EV Chargers Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Vehicle-to-Grid Charger

5.2.2 Vehicle-to-Home Charger

5.2.3 Vehicle-to-Building Charger

5.2.4 Vehicle-to-Load Charger

5.3 Market Segment by Type

5.3.1 World Bidirectional EV Chargers Production by Type (2021-2032)

5.3.2 World Bidirectional EV Chargers Production Value by Type (2021-2032)

5.3.3 World Bidirectional EV Chargers Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY POWER

6.1 World Bidirectional EV Chargers Market Size Overview by Power: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Power

6.2.1 <7kW

6.2.2 7kW–22kW

6.2.3 >22kW

6.3 Market Segment by Power

6.3.1 World Bidirectional EV Chargers Production by Power (2021-2032)

6.3.2 World Bidirectional EV Chargers Production Value by Power (2021-2032)

6.3.3 World Bidirectional EV Chargers Average Price by Power (2021-2032)

7 MARKET ANALYSIS BY ELECTRICAL STRUCTURE

7.1 World Bidirectional EV Chargers Market Size Overview by Electrical Structure: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Electrical Structure

7.2.1 Bidirectional AC Charger

7.2.2 Bidirectional DC Charger

7.3 Market Segment by Electrical Structure

7.3.1 World Bidirectional EV Chargers Production by Electrical Structure (2021-2032)

7.3.2 World Bidirectional EV Chargers Production Value by Electrical Structure (2021-2032)

7.3.3 World Bidirectional EV Chargers Average Price by Electrical Structure (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Bidirectional EV Chargers Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Home Energy Management

8.2.2 Smart Grid

8.2.3 Commercial Building Energy Management

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Bidirectional EV Chargers Production by Application (2021-2032)

8.3.2 World Bidirectional EV Chargers Production Value by Application (2021-2032)

8.3.3 World Bidirectional EV Chargers Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Wallbox

9.1.1 Wallbox Details

- 9.1.2 Wallbox Major Business
- 9.1.3 Wallbox Bidirectional EV Chargers Product and Services
- 9.1.4 Wallbox Bidirectional EV Chargers Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Wallbox Recent Developments/Updates
- 9.1.6 Wallbox Competitive Strengths & Weaknesses
- 9.2 Fermata Energy
 - 9.2.1 Fermata Energy Details
 - 9.2.2 Fermata Energy Major Business
 - 9.2.3 Fermata Energy Bidirectional EV Chargers Product and Services
 - 9.2.4 Fermata Energy Bidirectional EV Chargers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Fermata Energy Recent Developments/Updates
 - 9.2.6 Fermata Energy Competitive Strengths & Weaknesses
- 9.3 Nuvve
 - 9.3.1 Nuvve Details
 - 9.3.2 Nuvve Major Business
 - 9.3.3 Nuvve Bidirectional EV Chargers Product and Services
 - 9.3.4 Nuvve Bidirectional EV Chargers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Nuvve Recent Developments/Updates
 - 9.3.6 Nuvve Competitive Strengths & Weaknesses
- 9.4 Enphase Energy
 - 9.4.1 Enphase Energy Details
 - 9.4.2 Enphase Energy Major Business
 - 9.4.3 Enphase Energy Bidirectional EV Chargers Product and Services
 - 9.4.4 Enphase Energy Bidirectional EV Chargers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Enphase Energy Recent Developments/Updates
 - 9.4.6 Enphase Energy Competitive Strengths & Weaknesses
- 9.5 Tesla
 - 9.5.1 Tesla Details
 - 9.5.2 Tesla Major Business
 - 9.5.3 Tesla Bidirectional EV Chargers Product and Services
 - 9.5.4 Tesla Bidirectional EV Chargers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Tesla Recent Developments/Updates
 - 9.5.6 Tesla Competitive Strengths & Weaknesses
- 9.6 ChargePoint

- 9.6.1 ChargePoint Details
- 9.6.2 ChargePoint Major Business
- 9.6.3 ChargePoint Bidirectional EV Chargers Product and Services
- 9.6.4 ChargePoint Bidirectional EV Chargers Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 ChargePoint Recent Developments/Updates
- 9.6.6 ChargePoint Competitive Strengths & Weaknesses
- 9.7 Toyota Industries
 - 9.7.1 Toyota Industries Details
 - 9.7.2 Toyota Industries Major Business
 - 9.7.3 Toyota Industries Bidirectional EV Chargers Product and Services
 - 9.7.4 Toyota Industries Bidirectional EV Chargers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Toyota Industries Recent Developments/Updates
 - 9.7.6 Toyota Industries Competitive Strengths & Weaknesses
- 9.8 Nichicon
 - 9.8.1 Nichicon Details
 - 9.8.2 Nichicon Major Business
 - 9.8.3 Nichicon Bidirectional EV Chargers Product and Services
 - 9.8.4 Nichicon Bidirectional EV Chargers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Nichicon Recent Developments/Updates
 - 9.8.6 Nichicon Competitive Strengths & Weaknesses
- 9.9 Mitsubishi Electric
 - 9.9.1 Mitsubishi Electric Details
 - 9.9.2 Mitsubishi Electric Major Business
 - 9.9.3 Mitsubishi Electric Bidirectional EV Chargers Product and Services
 - 9.9.4 Mitsubishi Electric Bidirectional EV Chargers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Mitsubishi Electric Recent Developments/Updates
 - 9.9.6 Mitsubishi Electric Competitive Strengths & Weaknesses
- 9.10 ABB
 - 9.10.1 ABB Details
 - 9.10.2 ABB Major Business
 - 9.10.3 ABB Bidirectional EV Chargers Product and Services
 - 9.10.4 ABB Bidirectional EV Chargers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 ABB Recent Developments/Updates
 - 9.10.6 ABB Competitive Strengths & Weaknesses

9.11 Siemens

9.11.1 Siemens Details

9.11.2 Siemens Major Business

9.11.3 Siemens Bidirectional EV Chargers Product and Services

9.11.4 Siemens Bidirectional EV Chargers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Siemens Recent Developments/Updates

9.11.6 Siemens Competitive Strengths & Weaknesses

9.12 Schneider Electric

9.12.1 Schneider Electric Details

9.12.2 Schneider Electric Major Business

9.12.3 Schneider Electric Bidirectional EV Chargers Product and Services

9.12.4 Schneider Electric Bidirectional EV Chargers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Schneider Electric Recent Developments/Updates

9.12.6 Schneider Electric Competitive Strengths & Weaknesses

9.13 Delta Electronics

9.13.1 Delta Electronics Details

9.13.2 Delta Electronics Major Business

9.13.3 Delta Electronics Bidirectional EV Chargers Product and Services

9.13.4 Delta Electronics Bidirectional EV Chargers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Delta Electronics Recent Developments/Updates

9.13.6 Delta Electronics Competitive Strengths & Weaknesses

9.14 Toshiba Energy Systems & Solutions

9.14.1 Toshiba Energy Systems & Solutions Details

9.14.2 Toshiba Energy Systems & Solutions Major Business

9.14.3 Toshiba Energy Systems & Solutions Bidirectional EV Chargers Product and Services

9.14.4 Toshiba Energy Systems & Solutions Bidirectional EV Chargers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Toshiba Energy Systems & Solutions Recent Developments/Updates

9.14.6 Toshiba Energy Systems & Solutions Competitive Strengths & Weaknesses

9.15 Star Charge

9.15.1 Star Charge Details

9.15.2 Star Charge Major Business

9.15.3 Star Charge Bidirectional EV Chargers Product and Services

9.15.4 Star Charge Bidirectional EV Chargers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Star Charge Recent Developments/Updates

9.15.6 Star Charge Competitive Strengths & Weaknesses

9.16 UUGreenPower

9.16.1 UUGreenPower Details

9.16.2 UUGreenPower Major Business

9.16.3 UUGreenPower Bidirectional EV Chargers Product and Services

9.16.4 UUGreenPower Bidirectional EV Chargers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 UUGreenPower Recent Developments/Updates

9.16.6 UUGreenPower Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Bidirectional EV Chargers Industry Chain

10.2 Bidirectional EV Chargers Upstream Analysis

10.2.1 Bidirectional EV Chargers Core Raw Materials

10.2.2 Main Manufacturers of Bidirectional EV Chargers Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Bidirectional EV Chargers Production Mode

10.6 Bidirectional EV Chargers Procurement Model

10.7 Bidirectional EV Chargers Industry Sales Model and Sales Channels

10.7.1 Bidirectional EV Chargers Sales Model

10.7.2 Bidirectional EV Chargers Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Bidirectional EV Chargers Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Bidirectional EV Chargers Production Value by Region (2021-2026) & (USD Million)

Table 3. World Bidirectional EV Chargers Production Value by Region (2027-2032) & (USD Million)

Table 4. World Bidirectional EV Chargers Production Value Market Share by Region (2021-2026)

Table 5. World Bidirectional EV Chargers Production Value Market Share by Region (2027-2032)

Table 6. World Bidirectional EV Chargers Production by Region (2021-2026) & (Units)

Table 7. World Bidirectional EV Chargers Production by Region (2027-2032) & (Units)

Table 8. World Bidirectional EV Chargers Production Market Share by Region (2021-2026)

Table 9. World Bidirectional EV Chargers Production Market Share by Region (2027-2032)

Table 10. World Bidirectional EV Chargers Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Bidirectional EV Chargers Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Bidirectional EV Chargers Major Market Trends

Table 13. World Bidirectional EV Chargers Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Bidirectional EV Chargers Consumption by Region (2021-2026) & (Units)

Table 15. World Bidirectional EV Chargers Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Bidirectional EV Chargers Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Bidirectional EV Chargers Producers in 2025

Table 18. World Bidirectional EV Chargers Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Bidirectional EV Chargers Producers in 2025

Table 20. World Bidirectional EV Chargers Average Price by Manufacturer (2021-2026)

& (US\$/Unit)

Table 21. Global Bidirectional EV Chargers Company Evaluation Quadrant

Table 22. World Bidirectional EV Chargers Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Bidirectional EV Chargers Production Site of Key Manufacturer

Table 24. Bidirectional EV Chargers Market: Company Product Type Footprint

Table 25. Bidirectional EV Chargers Market: Company Product Application Footprint

Table 26. Bidirectional EV Chargers Competitive Factors

Table 27. Bidirectional EV Chargers New Entrant and Capacity Expansion Plans

Table 28. Bidirectional EV Chargers Mergers & Acquisitions Activity

Table 29. United States VS China Bidirectional EV Chargers Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Bidirectional EV Chargers Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Bidirectional EV Chargers Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Bidirectional EV Chargers Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Bidirectional EV Chargers Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Bidirectional EV Chargers Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Bidirectional EV Chargers Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Bidirectional EV Chargers Production Market Share (2021-2026)

Table 37. China Based Bidirectional EV Chargers Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Bidirectional EV Chargers Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Bidirectional EV Chargers Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Bidirectional EV Chargers Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Bidirectional EV Chargers Production Market Share (2021-2026)

Table 42. Rest of World Based Bidirectional EV Chargers Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Bidirectional EV Chargers Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Bidirectional EV Chargers Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Bidirectional EV Chargers Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Bidirectional EV Chargers Production Market Share (2021-2026)

Table 47. World Bidirectional EV Chargers Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Bidirectional EV Chargers Production by Type (2021-2026) & (Units)

Table 49. World Bidirectional EV Chargers Production by Type (2027-2032) & (Units)

Table 50. World Bidirectional EV Chargers Production Value by Type (2021-2026) & (USD Million)

Table 51. World Bidirectional EV Chargers Production Value by Type (2027-2032) & (USD Million)

Table 52. World Bidirectional EV Chargers Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Bidirectional EV Chargers Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Bidirectional EV Chargers Production Value by Power, (USD Million), 2021 & 2025 & 2032

Table 55. World Bidirectional EV Chargers Production by Power (2021-2026) & (Units)

Table 56. World Bidirectional EV Chargers Production by Power (2027-2032) & (Units)

Table 57. World Bidirectional EV Chargers Production Value by Power (2021-2026) & (USD Million)

Table 58. World Bidirectional EV Chargers Production Value by Power (2027-2032) & (USD Million)

Table 59. World Bidirectional EV Chargers Average Price by Power (2021-2026) & (US\$/Unit)

Table 60. World Bidirectional EV Chargers Average Price by Power (2027-2032) & (US\$/Unit)

Table 61. World Bidirectional EV Chargers Production Value by Electrical Structure, (USD Million), 2021 & 2025 & 2032

Table 62. World Bidirectional EV Chargers Production by Electrical Structure (2021-2026) & (Units)

Table 63. World Bidirectional EV Chargers Production by Electrical Structure (2027-2032) & (Units)

Table 64. World Bidirectional EV Chargers Production Value by Electrical Structure

(2021-2026) & (USD Million)

Table 65. World Bidirectional EV Chargers Production Value by Electrical Structure (2027-2032) & (USD Million)

Table 66. World Bidirectional EV Chargers Average Price by Electrical Structure (2021-2026) & (US\$/Unit)

Table 67. World Bidirectional EV Chargers Average Price by Electrical Structure (2027-2032) & (US\$/Unit)

Table 68. World Bidirectional EV Chargers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Bidirectional EV Chargers Production by Application (2021-2026) & (Units)

Table 70. World Bidirectional EV Chargers Production by Application (2027-2032) & (Units)

Table 71. World Bidirectional EV Chargers Production Value by Application (2021-2026) & (USD Million)

Table 72. World Bidirectional EV Chargers Production Value by Application (2027-2032) & (USD Million)

Table 73. World Bidirectional EV Chargers Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Bidirectional EV Chargers Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Wallbox Basic Information, Manufacturing Base and Competitors

Table 76. Wallbox Major Business

Table 77. Wallbox Bidirectional EV Chargers Product and Services

Table 78. Wallbox Bidirectional EV Chargers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Wallbox Recent Developments/Updates

Table 80. Wallbox Competitive Strengths & Weaknesses

Table 81. Fermata Energy Basic Information, Manufacturing Base and Competitors

Table 82. Fermata Energy Major Business

Table 83. Fermata Energy Bidirectional EV Chargers Product and Services

Table 84. Fermata Energy Bidirectional EV Chargers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Fermata Energy Recent Developments/Updates

Table 86. Fermata Energy Competitive Strengths & Weaknesses

Table 87. Nuvve Basic Information, Manufacturing Base and Competitors

Table 88. Nuvve Major Business

Table 89. Nuvve Bidirectional EV Chargers Product and Services

Table 90. Nuvve Bidirectional EV Chargers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Nuvve Recent Developments/Updates

Table 92. Nuvve Competitive Strengths & Weaknesses

Table 93. Enphase Energy Basic Information, Manufacturing Base and Competitors

Table 94. Enphase Energy Major Business

Table 95. Enphase Energy Bidirectional EV Chargers Product and Services

Table 96. Enphase Energy Bidirectional EV Chargers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Enphase Energy Recent Developments/Updates

Table 98. Enphase Energy Competitive Strengths & Weaknesses

Table 99. Tesla Basic Information, Manufacturing Base and Competitors

Table 100. Tesla Major Business

Table 101. Tesla Bidirectional EV Chargers Product and Services

Table 102. Tesla Bidirectional EV Chargers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Tesla Recent Developments/Updates

Table 104. Tesla Competitive Strengths & Weaknesses

Table 105. ChargePoint Basic Information, Manufacturing Base and Competitors

Table 106. ChargePoint Major Business

Table 107. ChargePoint Bidirectional EV Chargers Product and Services

Table 108. ChargePoint Bidirectional EV Chargers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. ChargePoint Recent Developments/Updates

Table 110. ChargePoint Competitive Strengths & Weaknesses

Table 111. Toyota Industries Basic Information, Manufacturing Base and Competitors

Table 112. Toyota Industries Major Business

Table 113. Toyota Industries Bidirectional EV Chargers Product and Services

Table 114. Toyota Industries Bidirectional EV Chargers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Toyota Industries Recent Developments/Updates

Table 116. Toyota Industries Competitive Strengths & Weaknesses

Table 117. Nichicon Basic Information, Manufacturing Base and Competitors

Table 118. Nichicon Major Business

Table 119. Nichicon Bidirectional EV Chargers Product and Services

Table 120. Nichicon Bidirectional EV Chargers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Nichicon Recent Developments/Updates
Table 122. Nichicon Competitive Strengths & Weaknesses
Table 123. Mitsubishi Electric Basic Information, Manufacturing Base and Competitors
Table 124. Mitsubishi Electric Major Business
Table 125. Mitsubishi Electric Bidirectional EV Chargers Product and Services
Table 126. Mitsubishi Electric Bidirectional EV Chargers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Mitsubishi Electric Recent Developments/Updates
Table 128. Mitsubishi Electric Competitive Strengths & Weaknesses
Table 129. ABB Basic Information, Manufacturing Base and Competitors
Table 130. ABB Major Business
Table 131. ABB Bidirectional EV Chargers Product and Services
Table 132. ABB Bidirectional EV Chargers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. ABB Recent Developments/Updates
Table 134. ABB Competitive Strengths & Weaknesses
Table 135. Siemens Basic Information, Manufacturing Base and Competitors
Table 136. Siemens Major Business
Table 137. Siemens Bidirectional EV Chargers Product and Services
Table 138. Siemens Bidirectional EV Chargers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Siemens Recent Developments/Updates
Table 140. Siemens Competitive Strengths & Weaknesses
Table 141. Schneider Electric Basic Information, Manufacturing Base and Competitors
Table 142. Schneider Electric Major Business
Table 143. Schneider Electric Bidirectional EV Chargers Product and Services
Table 144. Schneider Electric Bidirectional EV Chargers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Schneider Electric Recent Developments/Updates
Table 146. Schneider Electric Competitive Strengths & Weaknesses
Table 147. Delta Electronics Basic Information, Manufacturing Base and Competitors
Table 148. Delta Electronics Major Business
Table 149. Delta Electronics Bidirectional EV Chargers Product and Services
Table 150. Delta Electronics Bidirectional EV Chargers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Delta Electronics Recent Developments/Updates

Table 152. Delta Electronics Competitive Strengths & Weaknesses
Table 153. Toshiba Energy Systems & Solutions Basic Information, Manufacturing Base and Competitors
Table 154. Toshiba Energy Systems & Solutions Major Business
Table 155. Toshiba Energy Systems & Solutions Bidirectional EV Chargers Product and Services
Table 156. Toshiba Energy Systems & Solutions Bidirectional EV Chargers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Toshiba Energy Systems & Solutions Recent Developments/Updates
Table 158. Toshiba Energy Systems & Solutions Competitive Strengths & Weaknesses
Table 159. Star Charge Basic Information, Manufacturing Base and Competitors
Table 160. Star Charge Major Business
Table 161. Star Charge Bidirectional EV Chargers Product and Services
Table 162. Star Charge Bidirectional EV Chargers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. Star Charge Recent Developments/Updates
Table 164. Star Charge Competitive Strengths & Weaknesses
Table 165. UUGreenPower Basic Information, Manufacturing Base and Competitors
Table 166. UUGreenPower Major Business
Table 167. UUGreenPower Bidirectional EV Chargers Product and Services
Table 168. UUGreenPower Bidirectional EV Chargers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 169. UUGreenPower Recent Developments/Updates
Table 170. UUGreenPower Competitive Strengths & Weaknesses
Table 171. Global Key Players of Bidirectional EV Chargers Upstream (Raw Materials)
Table 172. Global Bidirectional EV Chargers Typical Customers
Table 173. Bidirectional EV Chargers Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Bidirectional EV Chargers Picture

Figure 2. World Bidirectional EV Chargers Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Bidirectional EV Chargers Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Bidirectional EV Chargers Production (2021-2032) & (Units)

Figure 5. World Bidirectional EV Chargers Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Bidirectional EV Chargers Production Value Market Share by Region (2021-2032)

Figure 7. World Bidirectional EV Chargers Production Market Share by Region (2021-2032)

Figure 8. North America Bidirectional EV Chargers Production (2021-2032) & (Units)

Figure 9. Europe Bidirectional EV Chargers Production (2021-2032) & (Units)

Figure 10. China Bidirectional EV Chargers Production (2021-2032) & (Units)

Figure 11. Japan Bidirectional EV Chargers Production (2021-2032) & (Units)

Figure 12. Bidirectional EV Chargers Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Bidirectional EV Chargers Consumption (2021-2032) & (Units)

Figure 15. World Bidirectional EV Chargers Consumption Market Share by Region (2021-2032)

Figure 16. United States Bidirectional EV Chargers Consumption (2021-2032) & (Units)

Figure 17. China Bidirectional EV Chargers Consumption (2021-2032) & (Units)

Figure 18. Europe Bidirectional EV Chargers Consumption (2021-2032) & (Units)

Figure 19. Japan Bidirectional EV Chargers Consumption (2021-2032) & (Units)

Figure 20. South Korea Bidirectional EV Chargers Consumption (2021-2032) & (Units)

Figure 21. ASEAN Bidirectional EV Chargers Consumption (2021-2032) & (Units)

Figure 22. India Bidirectional EV Chargers Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Bidirectional EV Chargers by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Bidirectional EV Chargers Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Bidirectional EV Chargers Markets in 2025

Figure 26. United States VS China: Bidirectional EV Chargers Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Bidirectional EV Chargers Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Bidirectional EV Chargers Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Bidirectional EV Chargers Production Market Share 2025

Figure 30. China Based Manufacturers Bidirectional EV Chargers Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Bidirectional EV Chargers Production Market Share 2025

Figure 32. World Bidirectional EV Chargers Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Bidirectional EV Chargers Production Value Market Share by Type in 2025

Figure 34. Vehicle-to-Grid Charger

Figure 35. Vehicle-to-Home Charger

Figure 36. Vehicle-to-Building Charger

Figure 37. Vehicle-to-Load Charger

Figure 38. World Bidirectional EV Chargers Production Market Share by Type (2021-2032)

Figure 39. World Bidirectional EV Chargers Production Value Market Share by Type (2021-2032)

Figure 40. World Bidirectional EV Chargers Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Bidirectional EV Chargers Production Value by Power, (USD Million), 2021 & 2025 & 2032

Figure 42. World Bidirectional EV Chargers Production Value Market Share by Power in 2025

Figure 43. <7kW

Figure 44. 7kW–22kW

Figure 45. >22kW

Figure 46. World Bidirectional EV Chargers Production Market Share by Power (2021-2032)

Figure 47. World Bidirectional EV Chargers Production Value Market Share by Power (2021-2032)

Figure 48. World Bidirectional EV Chargers Average Price by Power (2021-2032) & (US\$/Unit)

Figure 49. World Bidirectional EV Chargers Production Value by Electrical Structure, (USD Million), 2021 & 2025 & 2032

Figure 50. World Bidirectional EV Chargers Production Value Market Share by Electrical Structure in 2025

Figure 51. Bidirectional AC Charger

Figure 52. Bidirectional DC Charger

Figure 53. World Bidirectional EV Chargers Production Market Share by Electrical Structure (2021-2032)

Figure 54. World Bidirectional EV Chargers Production Value Market Share by Electrical Structure (2021-2032)

Figure 55. World Bidirectional EV Chargers Average Price by Electrical Structure (2021-2032) & (US\$/Unit)

Figure 56. World Bidirectional EV Chargers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Bidirectional EV Chargers Production Value Market Share by Application in 2025

Figure 58. Home Energy Management

Figure 59. Smart Grid

Figure 60. Commercial Building Energy Management

Figure 61. Others

Figure 62. World Bidirectional EV Chargers Production Market Share by Application (2021-2032)

Figure 63. World Bidirectional EV Chargers Production Value Market Share by Application (2021-2032)

Figure 64. World Bidirectional EV Chargers Average Price by Application (2021-2032) & (US\$/Unit)

Figure 65. Bidirectional EV Chargers Industry Chain

Figure 66. Bidirectional EV Chargers Procurement Model

Figure 67. Bidirectional EV Chargers Sales Model

Figure 68. Bidirectional EV Chargers Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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