

Global Bidirectional EV Charger Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Bidirectional EV Charger market size was valued at US\$ 77 million in 2024 and is forecast to a readjusted size of USD 402 million by 2031 with a CAGR of 21.4% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Bidirectional EV charging is exactly what it sounds like EV charging that goes two ways. Whilst with unidirectional (one-way) EV chargers, electricity flows from the electric grid into the electric vehicle, with bidirectional (two-way) EV chargers, electricity can flow both ways.

Usually, EVs use chargers that enable a unidirectional flow of electricity from the grid to the vehicle for charging purposes. Bidirectional chargers, on the other hand, have the capability to facilitate a two-way flow of energy. This means that when required, the charged battery of an EV can send surplus energy back to the grid or be used to power a home or building, acting as a temporary energy storage system.

This technology allows EVs to contribute to grid stability, support energy demand during peak times, and serve as distributed energy storage, ultimately enhancing the efficiency and flexibility of the power grid. Bidirectional EV charging also enables a more integrated and sustainable energy ecosystem.

The Bidirectional EV Charger is currently in a stage of rapid development but has not

yet been fully popularized. From a technical perspective, the system relies on bidirectional charging technology to convert the electrical energy in electric vehicle batteries into household electricity to meet daily energy conservation and emergency power supply needs. Since the launch of the first commercial V2H system in Japan in 2012, the technology has gradually expanded in the Japanese, European and North American markets, but the overall market size is still small. However, with the increasing popularity of electric vehicles (EVs), rising energy costs and frequent extreme weather, V2H technology has attracted more attention from consumers. Japanese companies such as Nichicon and Panasonic have taken a leading position through technological innovation and government subsidies (such as the CEV program), and are also actively promoting integration with solar energy storage systems to provide more efficient solutions for distributed energy management. However, due to high initial investment and insufficient consumer awareness, market promotion still faces certain resistance, which leaves a wide space for further development of the industry.

This report is a detailed and comprehensive analysis for global Bidirectional EV Charger market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Bidirectional EV Charger market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Bidirectional EV Charger market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Bidirectional EV Charger market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Bidirectional EV Charger market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Bidirectional EV Charger

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Bidirectional EV Charger market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nichicon Corporation, Takaoka Toko Co., Ltd., Panasonic, Wallbox, DENSO, GS Yuasa Corporation, Delta Electronics, Inc., Ford Motor, GM Energy, Diamond Electric Holdings, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Bidirectional EV Charger market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Output power ? 6kW

Output power > 6kW

Market segment by Application

Grid-tied

Off-grid

Major players covered

Nichicon Corporation

Takaoka Toko Co., Ltd.

Panasonic

Wallbox

DENSO

GS Yuasa Corporation

Delta Electronics, Inc.

Ford Motor

GM Energy

Diamond Electric Holdings

Fermata Energy

Indra Renewable Technologies Limited

ELIY Power CO., Ltd

SolarEdge

Sumitomo Electric Industries

Enphase Energy

StarCharge

UUGreenPower

Sigenergy Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Bidirectional EV Charger product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bidirectional EV Charger, with price, sales quantity, revenue, and global market share of Bidirectional EV Charger from 2020 to 2025.

Chapter 3, the Bidirectional EV Charger competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bidirectional EV Charger breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Bidirectional EV Charger market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Bidirectional EV Charger.

Chapter 14 and 15, to describe Bidirectional EV Charger sales channel, distributors, customers, research findings and conclusion.

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