

Global Bidirectional V2G EV Charger Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Bidirectional V2G EV Charger market size was valued at US\$ 293 million in 2025 and is forecast to a readjusted size of US\$ 1841 million by 2032 with a CAGR of 27.8% during review period.

Bidirectional V2G EV charging equipment refers to specialized power-electronics-based EVSE that enables controlled two-way energy flow between an electric vehicle battery and the grid, home, building, fleet depot, industrial site, or microgrid. This study focuses on external chargers, bidirectional charging stations, home energy stations, fleet power cabinets, dispensers, and integrated systems that combine bidirectional power conversion, protection and isolation, metering, vehicle communication, grid-interconnection control, and energy management interfaces. These systems are commonly built around CHAdeMO, CCS/ISO 15118, GB/T, or proprietary communication and control architectures, and are used for vehicle charging, grid export, home or building backup, demand response, peak shaving, renewable energy integration, and fleet energy optimization. The product category represents the key hardware layer that allows electric vehicles to operate as flexible distributed energy resources rather than only as electricity-consuming mobility assets.

Based on our research, bidirectional V2G EV charging equipment should be viewed as a grid-interactive power electronics market rather than a simple extension of conventional EV charging. A conventional charger only manages power flow from the grid to the vehicle, while a V2G/V2X charger must support two-way power conversion, vehicle communication, grid protection, metering, dispatch interfaces, and user-side energy management. This makes the category more complex in terms of safety

certification, utility interconnection, vehicle compatibility, and business model design. Early commercial adoption is most visible in Japanese residential V2H systems, North American school bus and fleet V2G projects, European AC V2G pilots, Chinese vehicle-grid integration trials, and Australian home energy use cases. The existing CHAdeMO ecosystem has provided an early installed base, while CCS/ISO 15118-20, NACS-based systems, and China's vehicle-grid interaction policies are shaping the next phase of product development.

Demand growth is expected to come first from use cases where the energy value of the vehicle battery can be captured with relatively low operational complexity. Fleet depots, school buses, municipal vehicles, logistics fleets, commercial buildings, and microgrids are better positioned than general public charging because dwell time, ownership, dispatch control, and metering can be managed more systematically. Residential backup is a second major growth track, especially in markets exposed to grid outages, distributed solar penetration, and rising demand for home energy resilience. Policy support is also becoming more concrete: official V2G equipment lists, interconnection rules, and large-scale vehicle-grid interaction pilots are turning the category from technical demonstration into an early commercial hardware market.

Over the medium term, product competition will likely split into three routes. The first is low-power residential bidirectional charging integrated with solar, storage, and home backup gateways. The second is medium- and high-power DC V2G equipment for fleets and depots, where reliability, certification, and software integration matter more than hardware cost alone. The third is AC bidirectional charging, which may reduce system cost if vehicle-side conversion and communication standards mature. The key constraints are no longer only device-level feasibility; they are vehicle compatibility, utility approval, grid-service settlement, battery warranty treatment, and customer economics. As these barriers are gradually reduced, the market is expected to move from pilot-driven procurement toward repeatable commercial deployment after 2026.

This report is a detailed and comprehensive analysis for global Bidirectional V2G 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 V2G EV Charger market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Bidirectional V2G EV Charger market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Bidirectional V2G EV Charger market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Bidirectional V2G EV Charger market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

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 V2G 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 V2G 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 General Motors Company, Ford Motor Company, Tesla, Inc., Siemens AG, Panasonic Holdings Corporation, DENSO Corporation, ABB Ltd., Eaton Corporation plc, BorgWarner Inc., Delta Electronics, Inc., etc.

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

Market Segmentation

Bidirectional V2G EV Charger market is split by Type and by Application. For the period 2021-2032, 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

Residential Bidirectional Wallbox

Commercial DC V2G Charger

Other

Market segment by Power Rating

≤7 kW Low Power

>7-22 kW Small Power

>22-60 kW Medium Power

>60-150 kW High Power

>150 kW Ultra-high Power

Market segment by Cooling Method

Natural Cooling

Forced Air Cooling

Liquid Cooling

Other Cooling Design

Market segment by Installation Form

Wall-mounted Unit

Floor-standing Charger

Other

Market segment by Application

V2G Grid Interaction

V2F Facility Power

V2V Vehicle-to-Vehicle Power

Other

Major players covered

General Motors Company

Ford Motor Company

Tesla, Inc.

Siemens AG

Panasonic Holdings Corporation

DENSO Corporation

ABB Ltd.

Eaton Corporation plc

BorgWarner Inc.

Delta Electronics, Inc.

Tsubakimoto Chain Co.

Enphase Energy, Inc.

ChargePoint Holdings, Inc.

Nichicon Corporation

Shenzhen Sinexcel Electric Co., Ltd.

Wallbox N.V.

Power Electronics S.L.U.

Shenzhen Infypower Co., Ltd.

Shenzhen UUGreenPower Co., Ltd.

Shenzhen Winline Technology Co., Ltd.

Gresgying Digital Energy Technology Co., Ltd.

Beijing LinkU Technology Co., Ltd.

Fermata Energy

Tellus Power Green

Nuvve Holding Corp.

InCharge Energy

dcbel inc.

Indra Renewable Technologies

eNovates

Ambibox GmbH

RedEarth Energy Storage

AME B.V.

We Drive Solar

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 V2G EV Charger product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bidirectional V2G EV Charger, with price, sales quantity, revenue, and global market share of Bidirectional V2G EV Charger from 2021 to 2026.

Chapter 3, the Bidirectional V2G EV Charger competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bidirectional V2G EV Charger breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Bidirectional V2G EV Charger market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 V2G EV Charger.

Chapter 14 and 15, to describe Bidirectional V2G EV Charger sales channel, distributors, customers, research findings and conclusion.

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