

Global Bidirectional V2G EV Charger Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bidirectional V2G EV Charger market size is expected to reach \$ 1841 million by 2032, rising at a market growth of 27.8% CAGR during the forecast period (2026-2032).

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 studies the global Bidirectional V2G EV Charger production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bidirectional V2G EV Charger 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 V2G EV Charger that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Bidirectional V2G EV Charger total production and demand, 2021-2032, (Units)

Global Bidirectional V2G EV Charger total production value, 2021-2032, (USD Million)
Global Bidirectional V2G EV Charger production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Bidirectional V2G EV Charger consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Bidirectional V2G EV Charger domestic production, consumption, key domestic manufacturers and share
Global Bidirectional V2G EV Charger production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Bidirectional V2G EV Charger production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Bidirectional V2G EV Charger production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Bidirectional V2G EV Charger 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Bidirectional V2G EV Charger 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 V2G EV Charger Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bidirectional V2G EV Charger Market, Segmentation by Type:

Residential Bidirectional Wallbox

Commercial DC V2G Charger

Other

Global Bidirectional V2G EV Charger Market, Segmentation 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

Global Bidirectional V2G EV Charger Market, Segmentation by Cooling Method:

Natural Cooling

Forced Air Cooling

Liquid Cooling

Other Cooling Design

Global Bidirectional V2G EV Charger Market, Segmentation by Installation Form:

Wall-mounted Unit

Floor-standing Charger

Other

Global Bidirectional V2G EV Charger Market, Segmentation by Application:

V2G Grid Interaction

V2F Facility Power

V2V Vehicle-to-Vehicle Power

Other

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Bidirectional V2G EV Charger market?
2. What is the demand of the global Bidirectional V2G EV Charger market?
3. What is the year over year growth of the global Bidirectional V2G EV Charger market?
4. What is the production and production value of the global Bidirectional V2G EV Charger market?
5. Who are the key producers in the global Bidirectional V2G EV Charger market?
6. What are the growth factors driving the market demand?

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