

Global V2G Charging Station Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global V2G Charging Station market size is expected to reach \$ 3185 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

V2G charging piles, or Vehicle-to-Grid (V2G) bidirectional interactive charging piles, are intelligent charging devices that upgrade traditional one-way charging facilities for electric vehicles. They have dual functions: charging the vehicle from the grid (G2V) and powering the grid from the vehicle (V2G). They can use the electric vehicle's power battery as a distributed mobile energy storage unit to achieve bidirectional intelligent allocation of electrical energy between the grid and the vehicle.

In 2025, the global production of V2G charging stations was 160,000 units, with an average price of US\$7,440 per unit.

Upstream of V2G charging stations mainly includes power semiconductor devices, power electronic modules, bidirectional inverters, metering and communication modules, charging guns and high-voltage connectors, control chips, structural and thermal management materials, as well as grid interface and protection equipment. The performance and cost of these upstream components directly affect bidirectional power transfer capability, stability, and economic efficiency. Downstream demand is the core focus and is concentrated in public charging networks, corporate and fleet charging stations, residential complexes and commercial hubs, bus and logistics depots, and grid-side peak shaving and energy storage applications. Downstream users focus on the impact of bidirectional charging on battery life, charge/discharge efficiency, availability, and grid interaction functions. In peak load management, peak shaving and valley filling, and microgrid scenarios, V2G charging stations provide flexible energy feedback and revenue optimization. Industry trends include higher power ratings, smart integration,

and deep coupling with energy management systems. Bidirectional communication protocols and standards are gradually unified, supporting distributed storage and renewable energy integration. Key drivers include EV adoption growth, rising demand for grid support and demand response, policy incentives and electricity pricing mechanisms, and the development of smart grids and distributed energy. Major constraints involve high system and installation costs, compatibility issues between vehicles and chargers, technical complexity, stringent bidirectional power control and safety certification requirements, and immature business models. From a profitability perspective, equipment manufacturing gross margins typically range from 25% to 40%, while operational margins are significantly influenced by site selection, charge/discharge management strategies, and energy resale revenue. High-utilization mature sites can generate stable cash flows and long-term returns.

This report studies the global V2G Charging Station production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global V2G Charging Station total production and demand, 2021-2032, (Units)

Global V2G Charging Station total production value, 2021-2032, (USD Million)

Global V2G Charging Station production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global V2G Charging Station consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: V2G Charging Station domestic production, consumption, key domestic manufacturers and share

Global V2G Charging Station production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global V2G Charging Station production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global V2G Charging Station production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global V2G Charging Station 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 ABB, Siemens, Delta, Eaton, ChargePoint, Wallbox, StarCharge, Nuvve, Fermata Energy, Indra, 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 V2G Charging Station 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 V2G Charging Station Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global V2G Charging Station Market, Segmentation by Type:

Unidirectional V2G

Bidirectional V2G

Global V2G Charging Station Market, Segmentation by Power:

Below 22kW

22kW-50kW

Above 50kW

Global V2G Charging Station Market, Segmentation by Voltage and Current Platforms:

Low-Voltage AC

High-Voltage DC

Ultra-High-Voltage DC

Global V2G Charging Station Market, Segmentation by Application:

Residential Charging

Commercial Parking Lots/Office Buildings

Public Fast Charging Stations

Vehicle Centralized Charging and Discharging

Microgrid and Distributed Energy Integration Scenarios

Other

Companies Profiled:

ABB

Siemens

Delta

Eaton

ChargePoint

Wallbox

StarCharge

Nuvve

Fermata Energy

Indra

We Drive Solar

EVTEC

Emporia Energy

Zaptec

Sigenergy

T-Power

RedEarth Energy Storage

Ambibox

Key Questions Answered:

1. How big is the global V2G Charging Station market?

2. What is the demand of the global V2G Charging Station market?
3. What is the year over year growth of the global V2G Charging Station market?
4. What is the production and production value of the global V2G Charging Station market?
5. Who are the key producers in the global V2G Charging Station market?
6. What are the growth factors driving the market demand?

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