+357 96 030922
info@marketpublishers.com

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

https://marketpublishers.com/r/G89B4960027EEN.html
Date: April 2026
Pages: 126
Price: US$ 4,480.00 (Single User License)
ID: G89B4960027EEN

Abstracts

The global Integrated V2G Charging Station market size is expected to reach $ 441 million by 2032, rising at a market growth of 19.6% CAGR during the forecast period (2026-2032).

An Integrated V2G Charging Station is a highly integrated bidirectional EV charging device that combines the core functional units of charging and discharging power conversion, power control, metering and protection, communication control, human-machine interface, and structural enclosure into a single equipment platform. It is designed not only to deliver electricity from the grid to electric vehicle batteries during normal charging, but also to export electricity stored in the vehicle battery back to the grid, building, or local load side during idle periods, peak shaving, demand response events, or backup power scenarios, thereby enabling bidirectional energy flow and vehicle-grid interaction. This product addresses the limitations of conventional one-way chargers that cannot utilize EV batteries as flexible energy assets, while also overcoming the complexity, larger footprint, and higher integration burden associated with split-type V2G systems. As a result, integrated V2G charging stations are more suitable for rapid deployment in commercial sites, charging hubs, fleet depots, industrial parks, and demonstration microgrid applications. Their development stems from the convergence of smart grid infrastructure, EV charging technology, and energy storage power conversion systems. Early V2G solutions were often built in split architectures and used mainly in pilot projects and technical demonstrations. With the advancement of power semiconductors, bidirectional converter topologies, thermal design, control algorithms, communication protocols, and grid interconnection standards, manufacturers have increasingly integrated charging, inversion, metering, protection, and communication functions into compact all-in-one systems, accelerating the shift from pilot deployment toward standardized and commercialized products. The upstream

+357 96 030922
info@marketpublishers.com

supply chain mainly includes power semiconductor devices, magnetic components, capacitors, resistors, relays, contactors, circuit breakers, fuses, connectors, cables, metering units, control boards, main control chips, communication modules, display units, cooling components, fans, metal structures, protective enclosures, and insulation materials. Typical upstream suppliers include manufacturers of power electronic components, electrical protection devices, industrial connectors and cable assemblies, control and communication modules, structural parts, thermal management components, as well as providers of testing, certification, and embedded software support.In 2025, the global production capacity of integrated V2G charging stations reached 100,000 units, while sales volume amounted to 58,954 units. The average selling price was USD 2,105 per unit, and the gross profit margin of manufacturers was in the range of 25%–35%.

At present, the integrated V2G charging station market is still transitioning from pilot validation to repeatable commercial deployment. Industry attention has shifted from simply proving bidirectional charging and discharging capability to ensuring stable operation, interoperability, and maintainability under real grid conditions. Compared with earlier split-type architectures, integrated systems are more attractive in fleets, campuses, commercial buildings, and demonstration public charging sites because they offer higher integration, faster deployment, a smaller footprint, and a shorter commissioning chain. Even so, market progress continues to depend heavily on vehicle compatibility, interconnection procedures, protocol alignment, aggregator platform integration, and local tariff or demand-response structures. This means the market is not determined by hardware specifications alone, but by the coordinated development of equipment, software, and power market mechanisms. Recent U.S. DOE VGI studies also emphasize that large-scale deployment requires simultaneous progress in field validation, customer value creation, grid impact management, and multi-stakeholder coordination.

Looking ahead, the development path of integrated V2G charging stations is expected to center on higher integration, stronger standardization, broader platform compatibility, and more application-specific product design. As VGI evolves from managed charging toward dispatchable bidirectional energy participation, integrated chargers are increasingly being positioned not merely as EV charging terminals but as distributed energy interface nodes. Their future value will depend on how effectively they can connect with virtual power plants, building energy management systems, campus microgrids, solar-plus-storage configurations, and demand-response platforms. Competitive differentiation is therefore likely to shift from standalone power rating or equipment cost toward grid-interactive control capability, protocol compatibility, dispatch

+357 96 030922
info@marketpublishers.com

precision, operational safety, and scalable service efficiency after deployment. DOE's 2025 VGI strategy, which prioritizes high-impact charging solutions, real-world validation, and scalable implementation, suggests that integrated V2G chargers are likely to expand first in highly managed use cases such as fleets, school buses, and commercial vehicle depots before spreading more broadly.

However, the sector still faces several major constraints, most of which are systemic rather than device-specific. Bidirectional equipment remains more expensive than conventional one-way chargers, and if incentives, compensation structures, or ancillary-service settlement pathways are not clear, end users and site operators may hesitate to invest. In addition, the pace of commercialization is influenced by the availability of compatible vehicles, the maturity of communication and interconnection standards, metering and certification requirements, cybersecurity considerations, and ongoing concerns about battery health impacts. In many regions, support for VGI is growing, but interconnection approval, submetering, tariff design, and aggregator participation rules are still evolving, which means a technically successful deployment does not automatically translate into scalable market adoption. California incentive guidance explicitly highlights the high cost of bidirectional charging equipment and the lack of cost-effective, accurate, and flexible submetering as key barriers, reinforcing the view that broader market expansion will likely begin in regions with supportive policy frameworks, concentrated vehicle assets, and urgent grid flexibility needs.

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

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

Highlights and key features of the study

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

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

+357 96 030922
info@marketpublishers.com

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

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

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

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

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

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

This report profiles key players in the global Integrated 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 Wallbox, Fermata Energy, dcbel, Indra, ABB, Qingdao TGOOD Electric, Infypower, Sinexcel, Tonhe, ATC, 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 Integrated V2G Charging Station market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K 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 Integrated V2G Charging Station Market, By Region:

+357 96 030922
info@marketpublishers.com

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Integrated V2G Charging Station Market, Segmentation by Type:

AC Bidirectional Charging Stations

DC Bidirectional Charging Stations

Global Integrated V2G Charging Station Market, Segmentation by Deployment Scenario:

Residential V2G Charging Stations

Commercial Building V2G Charging Stations

Fleet And Depot V2G Charging Stations

Public V2G Charging Stations

Global Integrated V2G Charging Station Market, Segmentation by Power Output:

Low-Power V2G Charging Stations

+357 96 030922
info@marketpublishers.com

Medium-Power V2G Charging Stations

High-Power V2G Charging Stations

Global Integrated V2G Charging Station Market, Segmentation by Application:

Passenger Vehicle Charging Stations

Light Commercial Vehicle Charging Stations

Bus Charging Stations

Special Vehicle Charging Stations

Companies Profiled:

Wallbox

Fermata Energy

dcbel

Indra

ABB

Qingdao TGOOD Electric

Infypower

Sinexcel

Tonhe

ATC

+357 96 030922
info@marketpublishers.com

Sojo Electric

EAST

Winline

Injet New Energy

Key Questions Answered:

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

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

5 MARKET ANALYSIS BY TYPE

6 MARKET ANALYSIS BY DEPLOYMENT SCENARIO

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

9 COMPANY PROFILES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

Figure 70. Research Process and Data Source

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Integrated V2G Charging Station Supply, Demand and Key Producers, 2026-2032
Product link: https://marketpublishers.com/r/G89B4960027EEN.html
Price: US$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G89B4960027EEN.html