

# **Electric Vehicle Connector Market Assessment, By Connector Type [Type 1, CCS, Chademo, Others], By Current Type [Alternate Current, Direct Current], By Charging Speed [Slow, Fast, Rapid], By Mounting Type [Floor Mounted, Wall Mounted], By End-user [Residential, Commercial], By Region, Opportunities and Forecast, 2017-2031F**

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## **Abstracts**

Global electric vehicle connector market size was valued at USD 75.48 million in 2023, expected to reach USD 325.63 million in 2031, with a CAGR of 20.05% for the forecast period between 2024 and 2031. The global electric vehicle connector market is experiencing a significant surge, driven by the increasing adoption of electric vehicles worldwide. The transition towards sustainable transportation and government initiatives promoting clean energy has fueled the demand for EVs, subsequently boosting the market for electric vehicle connectors. Stringent emissions regulations and a growing consumer environmental consciousness are pivotal factors propelling this market forward. As automakers continue to invest heavily in electric mobility, the need for reliable and efficient charging infrastructure becomes paramount, driving the demand for advanced EV connectors. Innovations in the EV connector market is marked by a focus on faster charging solutions, enhanced safety features, and compatibility across different charging standards.

The advent of high-power charging technologies, such as ultra-fast chargers capable of delivering substantial energy in a shorter time frame, addresses a key concern for EV users – charging time. Furthermore, smart, and wireless charging technologies are gaining prominence, providing added convenience to users. The integration of advanced materials and design enhancements aims to make connectors more durable

and efficient. Collaborations between automakers and charging infrastructure providers are fostering interoperability, ensuring a seamless charging experience for EV users globally. Overall, the electric vehicle connector market is evolving rapidly to meet the evolving needs of the burgeoning electric mobility sector. For example, Starbucks has partnered with Volvo to open 50 DC fast charging stations at 15 Starbucks stores in Colorado, Utah, Idaho, Oregon, route from Denver to Seattle. The charging stations can recharge any electric car with a CCS1 or CHAdeMO connector, including Volvo's C40 Recharge.

### Increasing Investment in Charging Network

The global electric vehicle connector market is witnessing a substantial boost due to the increasing investment in charging networks by key players. Recognizing the pivotal role of charging infrastructure in promoting electric mobility, major companies such as Tesla and charging network operators are allocating significant resources to expand and enhance charging networks. These strategic investments focus on deploying more charging stations, especially fast-charging ones, to address range anxiety and encourage widespread EV adoption. Collaborations between automakers and charging infrastructure providers further amplify this trend, fostering interoperability and a seamless charging experience. This robust commitment to building a comprehensive charging network underscores the key players' dedication to supporting the growth and accessibility of electric vehicles globally.

### Technological Advancements in Electric Vehicle Connector

Technological advancements propel the market forward, as continuous innovation addresses key challenges and enhances overall efficiency. Advancements in materials and design contribute to the development of more durable and heat-resistant connectors. High-power charging technologies are evolving rapidly, enabling faster charging times, and addressing a critical concern for EV users. The integration of smart features, such as communication protocols and wireless connectivity, enhances user experience and enables seamless interactions with charging infrastructure. Moreover, ongoing research and development focus on creating connectors compatible with various charging standards, promoting interoperability and flexibility. For example, The SEVD™-V3 is a cable with a connector for EV DC charger/discharger, specifically designed for V2X (Vehicle-to-Everything) applications. It is a V2X connector that is the main part of the DC quick charger for EVs and vehicle-to-home (V2H) applications. The SEVD™-V3 is a compact, lightweight, and safe connector cable assembly for EVs, aiming to contribute to the realization of efficient and secure charging solutions.

## Shift Towards DC Fast Charging Points

The market is witnessing a significant shift towards DC fast charging points, reflecting the industry's commitment to address range anxiety and enhance the charging experience. DC fast charging technology allows for rapid charging, significantly reducing the time required to recharge EV batteries. This shift is crucial in supporting long-distance travel and accommodating the growing number of electric vehicles on the roads. Key players in the EV connector market are actively investing in the development and deployment of DC fast charging infrastructure, aligning with the evolving needs of electric mobility. This transition underscores a strategic focus on enhancing convenience and accessibility and encouraging the widespread adoption of electric vehicles across the globe.

For example, Fujikura Components Ltd. offers a CCS Type2 connector that is lightweight, compact, and has a robust structure. The connector is stylishly designed and conforms to IEC62196-3 standards. The CCS Type2 connector complies with IEC62196-3 Config FF, weighs 1.1kg, and is tough. The connector is suitable for DC charging and can be used for fast charging of electric vehicles.

## Government Regulations

Government regulations are pivotal in shaping the global electric vehicle connector market. Various countries are implementing stringent emission standards and providing financial incentives to promote the adoption of electric vehicles, driving the demand for EV connectors. Regulatory initiatives often include mandates for developing public charging infrastructure, influencing connector standards. Incentives such as tax credits, rebates, and subsidies for EV purchases create a favorable environment for consumers, stimulating market growth. Additionally, some regions are actively working on establishing standardized norms for connector design and safety features to ensure uniformity across the EV charging ecosystem. These evolving regulations underscore the commitment to sustainable transportation and significantly impact the dynamics of the global EV connector market.

For example, The Bureau of Indian Standards (BIS), India's National Standard Body, has approved the country's first indigenous AC and DC Combined Charging connector standard for light electric vehicles (LEVs). This standard, known as IS17017 (Part 2 / Sec 7): 2023, is the world's first combined AC and DC charging connector standard for LEVs. This innovation, developed in India, has the potential to set a global benchmark

for the LEV industry.

### Key Player Landscape and Outlook

The global electric vehicle connector market is characterized by the presence of key players driving innovation and market expansion. Leading companies such as Tesla and Siemens play pivotal roles, contributing to the development and deployment of advanced EV charging solutions. These companies focus on research and development to enhance connector technology, aiming for faster charging, improved safety, and compatibility across diverse charging standards. As the EV market continues to grow, collaborations and partnerships among key players become crucial for the establishment of a robust charging infrastructure. The outlook for the global EV connector market remains promising, with an increasing emphasis on interoperability, smart charging solutions, and sustainability in the evolving landscape of electric mobility.

For instance, in November 2022, Tesla made its EV charging connector design available to other automakers and network operators in North America to encourage adoption of the technology and make it the new standard. The charging connector in all Tesla vehicles offers AC charging and up to 1 MW DC charging, and its compact design and performance are considered superior to the Combined Charging System (CCS) connectors used by most EVs in North America. Tesla's design and specification files are available for download, and the company is actively working with relevant standards bodies to collect Tesla's charging connector as the North American Charging Standard (NACS).

For instance, in June 2022, Siemens invested USD 25 million to acquire a minority stake in WiTricity, a United States-based wireless charging technology company. The two companies aim to drive innovation in the wireless EV charging market, which is projected to reach USD 2 billion by 2028 in Europe and North America. They seek to address global standardization gaps, enable interoperability between vehicles and infrastructure, and advance the technical development of wireless charging systems.

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\*Companies mentioned above DO NOT hold any order as per market share and can be changed as per information available during research work

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