Combined charging system ccs charger

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,CCS,CCS1CCS2,350kW? CCS1CCS2Type 1Type 2,,? Type 1Type 2???...

The CCS is a standardized system designed for fast-charging electric vehicles. It brings together alternating current (AC) and direct current (DC) charging into a single connector, ensuring compatibility with a wide range of EVs. CCS uses the Level 2 charger as its base, adding two extra DC power lines which enable it to carry a higher voltage compared to the regular connector. If you"re using a standard Type 2 charger, the bottom two holes on the connector remain unused because they"re only for the CCS plug.

In the US, CCS connectors are the primary high-speed chargers found in public charging stations. In a fast-paced country, the need for quick on-the-road top-ups has never been more apparent. According to S& P Global Mobility, there are currently around 20,000 fast charging ports nationwide, which is not enough to cater to the growing EV market share for new vehicles. By 2030, it"s estimated that EVs will account for 40% of cars on the road, which translates to approximately 28.3 million EVs in operation.

Analysts predict that around 172,000 DC EV chargers will be needed to meet the charging demands by the same year. This means the US must quadruple this number between 2022 and 2025 to meet the immediate charging needs. By 2027, about 109,000 fast chargers will need to be deployed across the country to keep up with the escalating demand for electric car and charging points.

Fast Charging: DC fast chargers are capable of delivering up to 350 kW of power output, significantly reducing charging times compared to traditional AC chargers. This is particularly crucial for long-distance travel, as it minimizes the time spent at charging stations, making EVs more practical for everyday use.

Convenience: The CCS connector combines both AC charging and DC charging, simplifying the charging process for EV owners. Drivers do not need to choose between different types of connectors or stations, as CCS chargers can handle various EV models with the same rapid charging connector.

Widespread Compatibility: CCS chargers have become a standardized solution in the US, compatible with a wide range of EV makes and models. This compatibility ensures that EV drivers can easily find and use a CCS charging station, reducing any concerns about charger compatibility.

Range Assurance: The availability of CCS chargers across the United States, often located along highways and in urban areas, provides EV drivers with the confidence to take longer trips. The convenience of fast charging and the widespread charging infrastructure contribute to reduced range anxiety.

Public Charging Networks: Major charging network providers have adopted CCS technology, resulting in an extensive network of CCS charging stations. This means that EV drivers have reliable access to charging

infrastructure, ensuring that they can charge their vehicles both locally and during cross-country trips.

CCS Combo 1 (CCS1): This type is commonly used in North America and Japan. It combines the standard SAE J1772 connector for Level 2 AC charging with the CCS DC fast-charging connector.

CCS Combo 2 (CCS2): CCS Combo 2, also known as IEC 62196-3, is the European version of CCS. It combines the Type 2 connector for Level 2 AC charging with the CCS DC fast-charging connector.

The main difference between these two types is the AC connector (J1772 for CCS1 and Type 2 for CCS2) and the region where they are commonly found. Both types use the same style of CCS connector for DC fast charging, ensuring compatibility for high-speed charging.

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