

New energy battery charging interface picture

What are smart charging interfaces?

An important part of this is the charging technology. In this context, the term smart charging is used for charging systems of electric or hybrid vehicles according to standards like ISO 15118 and DIN SPEC 70121. In this know-how section essential knowledge about charging interfaces is presented.

How do EV chargers work?

For AC charging, the converter is built inside the EV. With the on-board charger, the current is converted to DC and then fed into the EV's battery. It is currently the most common charging method for EVs.

How to charge an EV with AC & DC?

Since the battery in the EV is always charged with DC, the onboard charger is located in the EV for AC charging, while for DC charging the conversion already takes place in the EVSE. It's possible to charge EVs with alternating current (AC) and direct current (DC).

What is a unified charging system?

Unified charging system of GB/T and CHAdeMO. It offers charging with up to 900 kW. The MCS is designed for DC charging in the range of 3.75 MW of large battery EVs like heavy-duty vehicles. There are two separate communication lines independent from CE (charge enable) and ID (insertion detection).

How does autocharge work?

With this user-friendly authorization method introduced by Fastnet for public charging, the EV is identified using its vehicle ID, the EV controller MAC address, similar to RFID (EIM) authorization. Autocharge can be securely used only in closed charging parks rather than public charging stations, due to security concerns.

Is NREL a new charging standard?

At the NREL event, held on September 23-24, 2020, several prototype connectors and inlet hardware were revealed. The best solution is supposed to become a new charging standard for medium- and heavy-duty vehicles, equipped with really huge battery packs, for which the CCS output (currently at 350 kW) is not enough.

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The maximum voltage of the AC charging interface is three-phase 440V AC, and the maximum current is 63A AC; The maximum voltage for DC charging is 1000V DC, with a maximum current of 300A DC under natural ...

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The effect of different charging infrastructure configurations on the electric-driven distance of plug-in hybrid electric vehicles (e-mileage) has been investigated, using an ...

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