

ContainerPower Energy Solutions

Communication high-voltage battery cabinet charging process site



Overview

What is charging communication?

Charging communication primarily involves both the battery management system and the charging station agreeing on the energy requirements of the vehicle and both the amperages and voltages used during charging.

What is a vehicle charge communication unit?

The vehicle charge communication unit controls this interface and supports all common global charging standards for alternating current (AC) and direct current (DC). Software and hardware solutions for all charging standards in a compact control unit.

How do electric vehicles communicate with the charging station?

Electric vehicles communicate with the charging station during the charging process via a standardized interface. The vehicle charge communication unit controls this interface and supports all common global charging standards for alternating current (AC) and direct current (DC).

How secure is the charging communication unit?

Extensive safeguards ensure not only secure charging communication but also the greatest possible level of cybersecurity. The communication unit meets all the current charging standards: CCS, GB/T, CHAdeMO, Chaoji.

How does the charging process work?

Following successful connection establishment, the vehicle electronics notifies the charging station of the desired charging current and voltage (request). If the charging station is able to provide the desired energy, the charging process begins with the desired parameters.

How does a charging station perform a Corresponding action?

The charging station begins sending a data record, e.g. a CHM (charger handshake message). The BMS then receives the CHM and carries out the corresponding action, e.g. by checking the connection. To signal that it has carried out the action successfully, the BMS begins sending a BHM (BMS handshake message) to the charging station.

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