

## Kongres Container

# Communication base station inverter design fee charging standard



## Overview

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What are the different types of AC charging station installation?

Two main types of AC charging station installation is possible - on wall or on floor. Wall solution is convenient for installation in scenarios such as single-family individual houses. Floor installation is made with a pedestal which supports one or several charging stations. Charging stations can also be embedded with a pedestal.

What is a DC charging station?

This type of charging station, (with no attached cable), is used especially in commercial buildings where many different types of vehicles are charging at any one time. Power delivered by DC charging stations ranges from 24 kW to more than 900 kW with a Combo CCS connector, and up to 400 kW with a CHAdeMO connector.

What is Combined Charging System standard (CCS)?

The Combined Charging System Standard (CCS) covers several aspects of EV charging including AC and DC charging, communications between the charging station and the vehicle, load balancing, authentication and authorization to charge, and the vehicle coupler (the connector at the end of the charging cable, and the corresponding inlet in the vehicle).

What are the characteristics of a charging station?

In general, the main characteristics of the charging station depend on usage and on the location where it is installed. Charging station can be installed indoors or outdoors. As a general rule, IP protection is at least IP54 for outdoor usage even if IEC 61851-1 recommends only IP44. Shock IK protection is generally IK10.

How much power does a DC charging station deliver?

Power delivered by DC charging stations ranges from 24 kW to more than 900

kW with a Combo CCS connector, and up to 400 kW with a CHAdeMO connector. Fast DC charging station power range can range from 24 kW to more than 900 kW.

What is a charging station output?

In practice, charging station can usually operate within a range of  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  and within a relative humidity range of 5% to 95%. Charging station output is called socket-outlet where there is no attached cable, and is called electric vehicle connector where there is attached cable. Charging station can feature single or multiple output.

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