

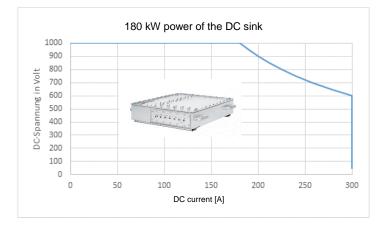
DC charging station emulator for EMC testing of vehicles

As of revision 04 of UNECE Regulation No. 10, an EMC assessment of the charging operation of electric vehicles and plugin hybrids is mandatory in order to successfully perform vehicle homologation. In this context, the charging options of the vehicles are decisive in determining the required scope of testing and the specific equipment needed to carry it out.

The DC charging station emulator (also DC Emulator, DCE) in combination with a communication simulator (CDS) takes over all relevant functions of a charging station without having any influence on the EMC behavior. With the available charging power, electrified commercial and transport vehicles, as well as agricultural and construction machinery, can of course also be tested.

The DC charging station emulator offers the following technical solutions and advantages:

- High charging power: For vehicles with an electric powertrain, the DCE can provide a charging power of up to 180 kW. For performance above this range, a limit may be imposed to implement the tests.
- **Different plug configurations:** A charging cable with the IEC-plug CCS Type 2 is available. The CHAdeMO and GB/T versions will also be available shortly.
- Disturbing and low-emission: The EMC-optimized design means that no corruption of the results of emission measurements and interference tests is to be expected.
- Communication logging: Through various logging options, an analysis of the communication is possible.



• Flexible use: The system can be used at various measuring stations to perform the radiated and conducted tests.

As a technical service for the KBA and RDW authorities, we can offer solutions for your type-approval even with normatively required charging capacities above the DC charging station emulator's performance limit.

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