Electric Vehicle Infrastructure
Terra 54 multi-standard DC charging station

Terra 54 is the successor of Terra 53, the best sold 50 kW DC charging station in Europe and North America. Supporting increasing EV battery capacities, Terra 54 enables continuous charging at full 50 kW at 150 – 500 V, while 150 – 920 V is supported by Terra 54HV.

Terra 54 supports CCS, CHAdeMO and AC functionality, and introduces sophisticated new connector holders. It complies with all relevant international standards, including the EMC Class B norm, formally required for safe operation on residential, office, retail and petrol station locations. The redesigned cabinet increases usability and reliability. All chargers come with integrated Connected Services, allowing remote monitoring, diagnostics, statistics, and software upgrades.

Main features
- 50 kW DC fast charger supporting CCS, CHAdeMO and Type 2 AC charging (optional)
- 22 or 43 kW AC cable, or 22 kW AC socket (optional)
- Designed to deliver full output power continuously, and reliably over lifetime
- IEC 61000 EMC Class B certified for industrial and residential areas (including petrol stations, retail outlets, offices, etc.)
- Future proof connection via open industry standards, including remote uptime monitoring and assistance, updates and upgrades
- Daylight readable touchscreen display
- Graphic visualization of charging progress
- RFID authorization
- Robust all weather stainless steel enclosure
- Quick and easy installation

Applications
- Highway petrol / service stations
- Metropolitan / urban areas
- Commercial fleet operators
- EV infrastructure operators and service providers

Terra 54 has the highest uptime due to redundancy on power and communication. All ABB chargers come with Internet based Connected Services to allow customers to easily connect their chargers to different software systems like back-offices, payment platforms or smart grid energy systems. This enables remote assistance, tailored diagnostic trouble shooting and repair, and remote updates and upgrades. A reliable, secure, cost efficient and future proof connectivity solution, based on open industry interfaces.
New features Terra 54
- Charging batteries at 200 – 500 V (Terra 54), or at 200 – 920 V (Terra 54HV)
- New sophisticated connector holders, for easier handling and more stable holding
- Optional CCV or Nayax payment terminal, suited for an increasing number of countries
- Prepared for options like MiD metering, integration with building management systems, cable management, etc.

Possible configurations
Terra 54 is available in the following configurations, all with CCS cable from left, and CHAdeMO cable (optional) from right side:
- Terra 54 CJG: CCS, CHAdeMO and (22 or) 43 kW AC connector
- Terra 54 CJT: CCS, CHAdeMO and 22 kW AC socket
- Terra 54 CJ: CCS and CHAdeMO
- Terra 54 CT: CCS and 22 kW AC socket

Outlet specifications
<table>
<thead>
<tr>
<th>Charging standard</th>
<th>C (default)</th>
<th>J (option)</th>
<th>G (option)</th>
<th>T (option)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCS</td>
<td>CHAdeMO</td>
<td>Type 2 cable</td>
<td>Type 2 socket</td>
<td></td>
</tr>
<tr>
<td>Maximum output power</td>
<td>50 kW</td>
<td>50 kW</td>
<td>22 or 43 kW</td>
<td>22 kW</td>
</tr>
<tr>
<td>Output voltage Terra 54</td>
<td>200 - 500 V&lt;sub&gt;DC&lt;/sub&gt;</td>
<td>150 - 500 V&lt;sub&gt;DC&lt;/sub&gt;</td>
<td>400 V +/- 10%</td>
<td>400 V +/- 10%</td>
</tr>
<tr>
<td>Output voltage Terra 54HV</td>
<td>200 - 920 V&lt;sub&gt;DC&lt;/sub&gt;</td>
<td>150 - 500 V&lt;sub&gt;DC&lt;/sub&gt;</td>
<td>400 V +/- 10%</td>
<td>400 V +/- 10%</td>
</tr>
<tr>
<td>Maximum output current</td>
<td>125 A&lt;sub&gt;DC&lt;/sub&gt;</td>
<td>125 A&lt;sub&gt;DC&lt;/sub&gt;</td>
<td>63 A</td>
<td>32 A</td>
</tr>
<tr>
<td>Connector/socket type</td>
<td>CCS 2 / IEC 62196 Mode-4</td>
<td>CHAdeMO / JEV5 G105</td>
<td>IEC62196 Mode-3 Type-2</td>
<td>IEC62196 Mode-3 Type 2</td>
</tr>
<tr>
<td>Cable length</td>
<td>3.9 m</td>
<td>3.9 m</td>
<td>3.9 m</td>
<td>-</td>
</tr>
</tbody>
</table>

Further optional features
- Customized branding possibilities, including customizable user interface
- Parking bay occupancy detection
- PIN code authorization
- Site load management, for one or more chargers, to avoid expensive grid upgrades
- Web tools for statistics and access management
- Integration with back-offices, payment platforms and smart grid energy systems

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