CPC150 - the 150 kW Compact Power Charger

With impressive technology from Siemens, designed and built by Kostad
The right charging equipment for multiple applications

Be it at highway transit charging, urban short-term parking or the powerful charging of your electrified fleet of public buses or utility trucks, CPC 150 charges your electric vehicle powerfully and quickly with up to 150 kW.

With the new CPC 150 compact charger, you can speed up your charge with up to 150 kW DC via CCS2 and CHAdeMO. In addition, you can use a 22 kW AC socket of type2. Such variety of options allows you to combine the connection according to your individual needs. Parallel charging is possible with 1 x 22 kW AC and 2 x 75 kW DC.

The charging station CPC 150 series is provided for charging private or utility vehicles in public and semi-public areas. CPC 150 can be operated both standalone or embedded in a modular and flexible charging system.

1 Highway transit charging
2 Enterprises and retailers
3 Urban gas station networks/ truck stops
4 Parking garages
5 Fleets with depot and opportunity charging
CPC 150 the new Compact Power Charger

The 150 kW charging station operates with voltages up to 920 V providing your electric vehicle with quick and reliable charging. With such high power, a cruising range of 100 km can be charged in less than ten minutes. For the parallel charging of two vehicles via DC cables, an internal load management system ensures the fair sharing of the available power.
Overview of features

Depending on your branding or architectural needs, the CPC 150 can be customized on all sides or the front only: your individual design will be printed in high quality 4 color print on UV resistant folio. It will be applied directly on your charger in the factory.
CPC 150 – Powered by Siemens

The integrated Siemens industrial components ensure highest reliability, maximum availability and easy operation.

The essential modules which are integrated in the CPC 150 are:

• SINAMICS DCP converters
• SIMATIC S7 controllers
• Industrial grade ECC charge controllers
• Siemens touchscreen HMI TP 1500

Siemens software provides optimized connectivity to charging management backends with the highest data and IT security standards. We support the open interface OCPP to 3rd party backends, easily integrating to existing software environments.

Advantages at a glance

• Optimally suited for current and future electric vehicles with long cruising range and high voltage levels
• Charging power of 150 kW and voltages up to 920 V for fast and reliable charging of two e-cars at the same time
• Highest reliability, data and IT-security and low maintenance due to Siemens industrial components and software
Dimensions

Connector options

CPC150 connections with parallel charging option

<table>
<thead>
<tr>
<th>Connection</th>
<th>DC left</th>
<th>DC right</th>
<th>AC 22 kW</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>CCS</td>
<td>-</td>
<td>AC socket (optional)</td>
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<tr>
<td>2.</td>
<td>-</td>
<td>CCS</td>
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<tr>
<td>3.</td>
<td>CCS</td>
<td>CCS</td>
<td>AC socket (optional)</td>
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<tr>
<td>4.</td>
<td>Chademo</td>
<td>-</td>
<td>AC socket (optional)</td>
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<td>5.</td>
<td>Chademo</td>
<td>Chademo</td>
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<td>6.</td>
<td>CCS</td>
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<td>7.</td>
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<tr>
<td>8.</td>
<td>Chademo</td>
<td>CCS</td>
<td>AC socket (optional)</td>
</tr>
</tbody>
</table>

- DC cables available with 3.2 m, 4.2 m, 5.2 m length
- Liquid cooled CCS cables can be used for charging up to 400 A (optional)
- AC connection optionally with power symmetry balancing (4.6 kVA as max. asymmetry between two phases)
# Technical data of CPC 150

## General specification

| Charging options       | 1 DC session with 150 kW  
|                        | 2 DC sessions parallel with 75 kW  
|                        | 2 DC sessions 75 kW + 1 AC session 22 kW  
| Environment            | Indoor/outdoor  
| Protection rating      | IP54, IK10 (cabinet), IK8 (screen)  
| Operating temperature  | -30°C to +50°C  
| Operation noise level (full load) | < 65 dBA  
| Dimensions (W x D x H) | 822 mm x 1168 mm x 2125 mm  
| Weight                 | 1200 kg  

## Standards

- **EMC immunity**: EN 61000-6-2 (Industrial)  
- **EMC emission**: EN 61000-6-3 (Class B residential)  
- **CCS**: DIN 70121  
  ISO 15118 in preparation  
  IEC 62196 Mode 4  
  EN 61581-23  
- **CHAdeMO**: CHAdeMO 1.2  
  JEV G105  
- **AC socket (option)**: EN 61581-1  
  IEC 62196 Mode 3 & Type 2  

## Grid information

- **Grid connection**: 3P+PE  
  3P+N+PE for AC option  
- **AC input voltage**: 3x400 V ± 10%  
- **Max. rated input current**: 3x224 A 155 kVA  
  3x256 A 177 kVA (incl. AC option)  
- **Frequency range**: 47 Hz to 63 Hz  
- **Power factor (at 50% load)**: > 0,97  
- **Efficiency**: > 94%  

## DC output

- **Maximum DC output power**: 1x150 kW or 2x75 kW  
- **Maximum DC current**: 200 A without active cable cooling  
  400 A with active cable cooling  
- **Output DC voltage range**: 200 - 920 V  

## Interface

- **Screen**: 15" touchscreen  
- **RFID system**: ISO/IEC 14443A/B (standard)  
  ISO/IEC 18092 (standard)  
  ISO/IEC 15693 (option)  
  Legic prime/advant (option)  
- **Network**: Cellular modem: GSM/3G/4G  
  T-Ethernet 10/100Base  
- **Backend communication incl. load management**: Open Charge Point Protocol OCPP 1.6 JSON  
- **Local load management**: ModBus TCP/IP  
- **Local payment**: Credit card reader (option)
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