Electric Vehicle Infrastructure
Overnight charging for electric buses and trucks

ABB HVC-Overnight Charging products offer an intelligent and cost-effective solution to charge larger fleets of electric buses and trucks during the night, ensuring zero emission transportation during the day.

Key features
- Sequential charging
- Small infrastructure footprint of the depot charge box
- Flexible design for roof and floor mounting
- CCS and OCPP compliant
- Remote diagnostics and management tools

Sequential charging
Instead of having one charger per vehicle, ABB offers sequential charging for its HVC charging solutions. A single power cabinet is paired with up to three charge boxes. After the first vehicle has finished charging, the next vehicle will start charging automatically. The advantages are:

- Vehicles are charged with high power, maximizing vehicle availability
- The required grid connection is smaller, reducing initial investments and operational costs
- The compact depot box is easy to install in depots with space constraints
- Optimal utilization of installed infrastructure, meaning lower investments in charging equipment

Future proof modular design
Power cabinets can be upgraded from 100 kW or 150 kW at any time, allowing operators to scale their operation and to spread investments.

Safe and reliable operation
ABB fast chargers comply with the highest international electrical, safety, and quality standards, guaranteeing safe and reliable operation in public areas.

Always connected: remote service & data management
ABB chargers come with an extensive suite of connectivity features including remote monitoring, remote management, remote diagnostics, and remote software upgrades. These advanced services provide equipment owners with powerful insight into their charging operation, and enable high uptime and fast response to problems.

ABB is your experienced partner
ABB HVC products are based on ABB’s solid experience in EV charging solutions. Since early 2010 ABB has installed over 8000 fast charging systems around the world and is the leading supplier globally.
## Technical specifications

<table>
<thead>
<tr>
<th>Power</th>
<th>Modular: 100 kW, 150 kW</th>
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</thead>
<tbody>
<tr>
<td>Input AC connection</td>
<td>3P + PE</td>
</tr>
<tr>
<td>Rated input current &amp; power (per 150 kW module)</td>
<td>3 x 250 A, 173 kVA</td>
</tr>
<tr>
<td>Input voltage range</td>
<td>400 V_{AC} +/- 10% (50 Hz or 60 Hz)</td>
</tr>
<tr>
<td>Maximum output current (per 150 kW module)</td>
<td>200 A</td>
</tr>
<tr>
<td>Output voltage range</td>
<td>150 – 850 V_{DC}</td>
</tr>
<tr>
<td>DC connection standard</td>
<td>IEC 61851-23 / DIN 70121 ISO 15118</td>
</tr>
<tr>
<td>Connection method between charger and bus</td>
<td>CCS 1 or CCS 2</td>
</tr>
<tr>
<td>Environment</td>
<td>Indoor / Outdoor</td>
</tr>
</tbody>
</table>
| Operating temperature | Standard: -10 °C to +50 °C  
Optional: -35 °C to +50 °C |
| Protection | Charge cabinet: IP54 – IK10  
Depot charge box: IP65 – IK10 |
| Network connection | GSM / 3G modem  
10/100 base-T Ethernet |
| Cable length between most remote depot charge box and power cabinet | Up to 150 m |
| Cable length between depot charge boxes | Up to 30 m |
| Cable length connector | Standard: 3.5 m  
Optional: 7 m |

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### Advantages of connected charging

- **real-time status**
- **access management**
- **statistics**
- **notifications**
- **configuration**
- **remote diagnostics**

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For more information please contact:

**ABB EV Infrastructure**
Delftweg 65  
2289 BA Rijswijk  
The Netherlands  
Phone: +31 70 307 6200  
E-mail: info.evci@nl.abb.com

[www.abb.com/evcharging](http://www.abb.com/evcharging)