

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.

ABB Heavy Vehicle Charger (HVC) products offer an ideal solution to charge electric buses and trucks overnight. This allows to charge larger fleets of electric vehicles during the night, ensuring zero-emission transportation during the day.

Key features

- Smart 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

Smart charging

Instead of having one charger per vehicle, ABB offers smart 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 50 kW to 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 6000 fast charging systems around the world and is the leading supplier globally.

Technical specifications	
Power	Modular: 50 kW, 100 kW, 150 kW
Input AC connection	3P + PE
Rated input current & power (per 150 kW module)	3 x 250 A, 173 kVA
Input voltage range	400 V _{AC} +/- 10% (50 Hz or 60 Hz)
Maximum output current (per 150 kW module)	200 A
Output voltage range	150 – 920 V _{DC}
DC connection standard	IEC 61851-23 / DIN 70121 ISO 15118
Connection method between charger and bus	CCS 1 or CCS 2
Environment	Indoor / Outdoor
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 depot charge box and power cabinet	Up to 150 m
Cable length between depot charge boxes	Up to 30 m
Cable length connector	Standard: 2.6 m Optional: 6 m



150 kW overnight charging system with three depot charge boxes

Advantages of connected charging



real-time status



access management



statistics



notifications



configuration



remote diagnostics

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