

Electric Vehicle Infrastructure

Opportunity charging for electric buses



ABB HVC-Opportunity Charging products offer high power charging via an automated rooftop connection. With typical charge times of 3 to 6 minutes the system can easily be integrated in existing operations by installing chargers at endpoints, terminals and intermediate stops.

ABB Heavy Vehicle Charger (HVC) products offer an ideal solution for opportunity charging, ensuring zero-emission public transit during the day without impacting on the normal operation of the route.

Key features

- Charge in 3 to 6 minutes
- One charger can serve multiple vehicle types and brands
- Safe and reliable fully automated connection
- Based on international IEC 61851-23 standard
- Remote diagnostics and management tools

Interoperability

ABB HVC chargers are based on international standards to ensure compatibility with multiple vehicle types and brands, so operators can select vehicles from multiple vendors.

Future proof modular design

Additional power cabinets can be installed 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.

ABB Ability™ Connected Services

ABB chargers come with an extensive suite of connectivity features including remote monitoring, remote management, remote diagnostics, and over-the-air 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: 150 kW, 300 kW, 450 kW, 600 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)	250 A
Output voltage range	150 – 850 V _{DC} 150 – 920 V _{DC} (extended voltage range option)
DC connection standard	IEC 61851-23 / DIN 70121 ISO 15118
Connection method between charger and bus	4-pole automatic connection system
Environment	Indoor / Outdoor
Operating temperature	-35 °C to +50 °C
Protection	IP54 – IK10
Network connection	GSM / 3G modem 10/100 base-T Ethernet



300 kW opportunity charging system

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