PRODUCT LEAFLET

# 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 $V_{DC}$<br>150 – 920 $V_{DC}$ (extended voltage range option) |
| DC connection standard | IEC 61851-23 / DIN 70121<br>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<br>10/100 base-T Ethernet |


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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:**

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