

ABB introduces automated fast chargers for electric city busses Enabling zero emission public transportation in cities



ABB introduces an automated fast charging system, which allows electric city busses to drive 24/7, thus enabling true zero emission public transport in cities. With its automated rooftop connection and typical charge time of 4–6 minutes the system can easily be integrated in existing bus lines by installing chargers at endpoints, terminals and/or intermediate stops.

Product key benefits

- Charge electric busses in 4–6 minutes
- Easy integration into existing bus lines
- Automated 4-pole rooftop connection
- Based on international IEC 61851-23 standard
- Safe and reliable connection
- Remote diagnostics and management tools

Enable zero emission bus transport in your city

With increasing air pollution levels in cities and a stronger public commitment to clean transportation, electric city busses offer a great opportunity to improve life in cities, while also reducing operational costs. ABB's automated fast charging system solves the key problems for large scale adoption of zero emission electric busses: long charging times and short driving range belong to the past.

With a typical charging time of 4-6 minutes and a fully automated rooftop charging connection, electric busses can be charged anywhere at convenient places along bus routes, thus enabling true 24/7 electric bus operation in cities.

Solutions based on international standards

ABB's automated fast chargers are designed to the highest international electrical, quality and safety standards, including IEC 61851-23, guaranteeing safe and reliable operation in public areas. Over the last years, ABB invested heavily into standardization and is a leading authority in all key standardization developments with respect to fast charging. This provides you with the confidence that long term support and industry-wide understanding of the solution is secured.

ABB connectivity and services put you in control

All ABB chargers come with an extensive suite of connectivity features including remote monitoring, remote management and smart software upgradeability. These advanced services enable high uptime of the equipment, a fast response time to problems and provide owners of chargers with powerful insight into statistics of their charging operation. Combined with ABB's global presence of service teams we can provide a reliable overall charging solution, anywhere in the world.

ABB is your experienced partner

The new fast charging solution for e-bus charging is based on ABB's solid experience in charging solutions for electric vehicles. Since early 2010, ABB has installed more than 2000 fast charging systems for electric vehicles around the world and is the globally leading supplier in this market. This unique position and experience is leveraged to provide the best value to our customers anywhere in the world.

Technical specifications

Power	Modular: 150 kW, 300 kW, 450 kW
Input AC connection	3P + N + PE
Max. 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	400 – 800 V _{DC} (CCS 2)
DC connection standard	IEC 61851-23 / DIN 70121
Connection method between charger and bus	4-pole automatic connection system or Combo 2 connector
Environment	Indoor / Outdoor
Operating temperature	Standard: -10 °C to +45 °C Optional: -30 °C to +45 °C
Network connection	GSM / CDMA modem 10/100 base-T Ethernet
Protection	IP54 – IK10



Image: impression of a typical installation consisting of a 300 kW power unit and an automated connection system. Note: product under development. Final design and specifications may differ.

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