

ABB E-MOBILITY

Bus Charging Infrastructure

Opportunity Charging

Buses powered by internal combustion engines add to pollution and are costly to operate and maintain.

Transit Authorities must adopt future-proof and easy to integrate solutions to modernize their fleets and infrastructure.

Cities are looking to electrify their transit fleets to reduce emissions and noise pollution, as well as increase

efficiency and lower energy and maintenance costs.









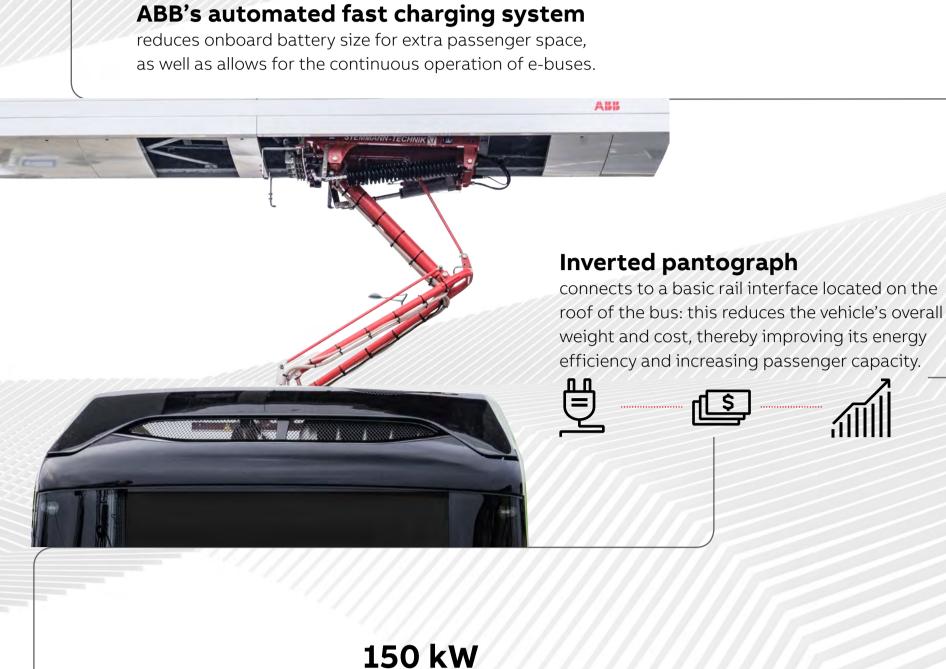


OPPcharge

Transportation

is changing ABB's e-bus charging solutions are designed

to scale electrification plans into existing transit ecosystems.



charging power per module

upgrades from 150 kW up to 600 kW.

multiplies power options allows easy and cost-effective field

Modular design





at the bus depot. Chargers can be

Overnight charging

configured to offer 50 kW to 150 kW of high power fast charging.

allows e-buses to be connected and charged sequentially while parked



of choice ABB's e-bus charging solutions are designed using an open-standard approach; thus giving transit authorities full control over their fleets.

enable freedom

Flexible solutions



Interoperability with CCS and OppCharge

Every bus in a fleet should be able to connect to every charging point on the network. ABB's open-standard

design approach ensures interoperability.



Connectivity

well as software upgrades.

3-6 minutes fast charging time

on-route charging allows for bus route

Continuous bus operation with

schedule to be maintained.

Increased uptime with ABB Ability™ connected services



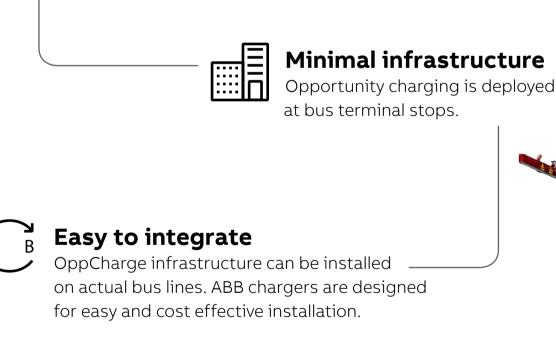


Future-proof

Charging system is based on

IEC 61851-23, the International

standard for EV fast charging.



for transit infrastructure

cost-efficiency are key

Environmentally friendly

lower energy consumption

than a corresponding diesel bus

60%

Reliability and

Life cycle costs and uptime are critical factors for the success of any transit operation. Optimal infrastructure solutions should include deep technical

expertise and a proactive service portfolio to optimize all charging assets.



Lower maintenance cost due to electric powertrains with fewer moving parts offer significantly reduced

Increased safety

maintenance costs and lengthen vehicle lifetimes.

Lower infrastructure and

fleet maintenance costs

Increased passenger comfort Less onboard infrastructure equals more passenger space;

thereby increasing comfort and vehicle efficiency.

The automated connection of the inverted pantograph

means there is no human interaction required.



ABB Charger Care











