Wabtec CORPORATION

ChargingPANTO®
The open standard e-bus charging solution

The best way to sustainable urban mobility – saving time, weight and up to 50 % of costs

Our Promise: As an “OppCharge” solution, Wabtec’s ChargingPANTO® ensures that any e-bus in your fleet can connect to any charging station. ChargingPANTO® is the **fastest e-bus charging solution** currently available. Compared to roof mounted pantographs, it does not put additional weight on your bus and extends the net service time of your municipal e-bus fleet. The dependable system consists of an inverted, top down pantograph installed on a charging station and a set of roof rails mounted to the vehicle roof. By choosing ChargingPANTO® you decide the first application to fully meet the en-route bus charging standard and the best way to sustainable urban mobility.

Your benefits:

Fast charging solution:
extends service time and keeps buses on schedule

Light weight charging rail:
minimum impact on vehicle weight

Economic value:
less costs for charging equipment

Open standard:
a common interface supporting interoperability

Future proof:
fully compliant with ACEA recommendations

Dependable solution:
lower risks of unplanned maintenance

Charging at end stops:
less pantographs per route required

Fully automatic:
easy operation for driver

Key functions:

- Reliable high-current DC charging
- Easy connection due to durable fixed-mount light-weight charging rail
- Fully automatic and secured by two-way Wifi
- Start of charging sequence by simply activating the parking brake

Anniston, city of the USA

Charging tomorrow's cities – today

Our references are diverse: Hamburg, New York, Hong Kong – our innovative and dependable ChargingPANTO® solution is in use in major cities all over the world. Thus, successfully reducing the pollution in the city centres in more than 16 countries. With each kilometre of electric driving we help to safe around 500 g/km of CO_2.

Today, more than 3.200 vehicles use Wabtec's ChargingPANTO®. And their number is steadily growing.
Safer. Smarter. Greener – Wabtec goes ahead.

Berlin, city of Germany
© BVG/Andreas Süß

Edmonton, city of Canada

Product specifications:

Specification ChargingPANTO®	
Rated voltage	750 V DC
Nominal current	1.000 A
Lowering time	5–10 s
Raising time	7–10 s
Lifespan	12 years
Contact noise emission	61 db (A)
Operating temperature	-40° C up to 75° C
Protection type drive	IP65
Weight	Approx. 185 kg

Specification roof rails	
Rated current	up to 1.500 A
Nominal voltage	1.500 V DC
Heating system voltage	24 V DC
Minim contact force	10 N/100 A
Total length	730 mm
Protection type	IP65
Lifespan	15 years
Operating temperature	-40 °C up to 75 °C
Weight	7.6 kg

Sounds interesting? Than find out more about our ChargingPANTO® on www.stemmann.com or give us just a call +49 5923 81 0. We will be happy to answer your questions or present our open standard solution directly to you in person.

STEMMANN-TECHNIK GmbH – a Wabtec Company
Niedersachsenstr. 2 • 48465 Schüttorf • Germany
Phone: +49 5923 81 0 • Fax: +49 5926 81 100 • stemmann-sales@wabtec.com

www.wabtec.com