

FULLY ELECTRIC LOW FLOOR BUS

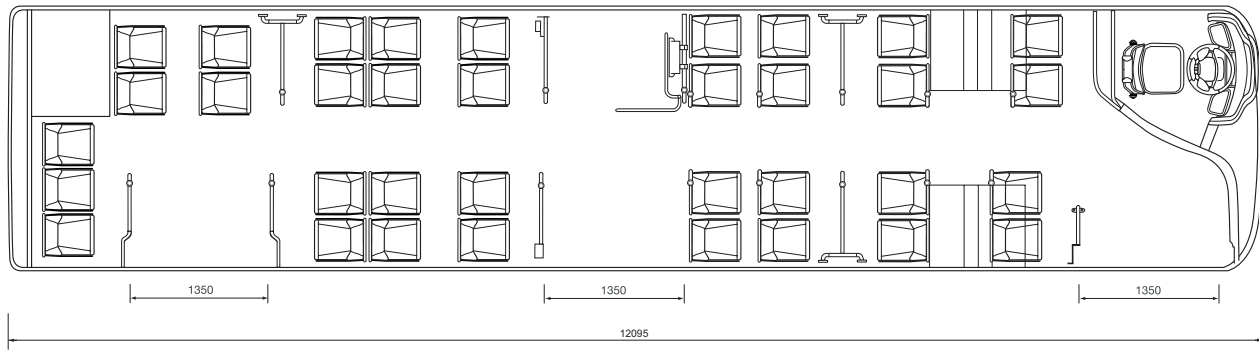
SCANIA CITYWIDE

The new generation Scania Citywide is developed for the demands of future cities. It is designed to boost the appeal of public transport, and equipped with the latest technology in everything from safety systems to emissions and noise minimisation, creating

a more welcoming city environment. The fully electric low floor bus has the battery capacity to cover almost any city route and offers fast-charging (in-route or at depot), making it perfectly suited for operations with demands on high

passenger capacity and maximised uptime. Along with its low energy consumption and Scania's complete support throughout the service life, this means total cost of operation can be minimised.





General

Chassis type: Low floor

Wheel configuration: 4x2

Operating temperature: -20°C to +40°

Door configuration: 2-2-2, 2-2-0, 1-2-2, 1-2-0

Dimensions

Length : 11.5-13.2 m

Width: 2.55 m

Height: 3.3 m

Front overhang: 2,780 mm

Rear overhang: 3,415 mm

Wheelbase: 5,300 - 7,000 mm

Angle of approach/departure: 7°

Front suspension: Independent

Tyres: 315/60 or 275/70 (front) and 275/70 (rear)

Minimum turning radius: 11,498 mm
(applies for wheelbase of 5,900 mm)

Swept annular width – minimum turning radius: 6,198 mm
(applies for wheelbase of 5,900 mm)

Passenger capacity

Total passenger capacity: >100 (applies for 8 batteries)

Seating capacity: Up to 35

Weight

Gross vehicle weight: 20,000 kg

Axle load (front): 8,200 kg

Axle load (rear): 12,000 kg

Performance

Gradeability: 16 % all conditions

Maximum allowed speed: 85 km/h

Acceleration: Up to 1.2 m/s²

Climate system

Heating: Heat pump above - 5°C
Auxiliary heater below - 5°C

Cooling: Electrical A/C

Powertrain

E-machine:

300 kW peak
250 kW continuous (R85)
Oil spray cooled

Rated voltage: 650 V

Max. torque: 5,400 Nm peak and 3,400 Nm continuous

Energy consumption: 0.75 – 1.6 kWh/km*

Energy consumption SORT:

SORT 1 0.94 kWh/km
SORT 2 0.82 kWh/km
SORT 3 0.77 kWh/km

Gearbox:

2-speed gearbox
Gear change at 37 km/h

Brakes:

Recuperation via electric machine and
electro pneumatic disc brakes

**Dependent on climate and operation*

Battery

Technology: Lithium-Ion (NMC)

Number of high-voltage battery packs:
8 or 10 battery packs

Battery arrangement: 4 battery packs in the rear and
4 or 6 battery packs on the roof

Max. total capacity: ~250 kWh or 320 kWh

Range: 115 – 220 km (8 batteries) or
150 – 280 km (10 batteries)

Life length: 4 – 8 years**

***Life length is dependent on driving, operational- and
environmental conditions.*

Charging options

Inverted pantograph: Up to 300 kW
Later introduction - up to 450 kW

Roof mounted pantograph: Up to 300 kW
Later introduction - up to 450 kW

CCS Type 2 (depot charging):

DC up to 150 kW
AC up to 22 kW (valid for a short period after first introduction)

Charging time (fully charged battery):

~30-45 minutes for 8 batteries
~40-60 minutes for 10 batteries

Charging time plug-in CCS (fully charged):

~60-90 minutes for 8 batteries
~60-120 minutes for 10 batteries

Charging interface: ISO 15118 and IEC 61851