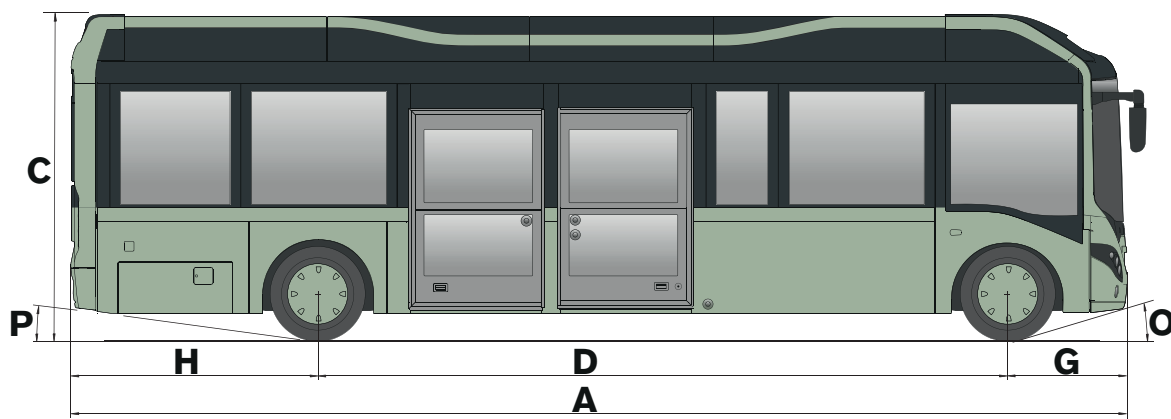




Volvo Buses. Driving quality of life

VOLVO ELECTRIC CONCEPT BUS

FAST CHARGE, 10.7 m, CENTER DRIVER POSITION



Model		4x2, 10.7 m
Overall dimensions		
A	Overall length (mm)	10720
	Overall width (mm)	2550
C	Overall height (mm)	3298
D	Wheelbase (mm)	7000
G	Front overhang (mm)	1212
H	Rear overhang (mm)	2508
O	Approach angle (°)	> 8.5
P	Departure angle (°)	> 7.5
	Turning radius (outer front corner) (mm)	11200
	Turning radius (outer front wheel) (mm)	10300
	Overall height, approach and departure angles with tyres	275/70 R22.5
Weights		
	Permitted front axle load (kg)	7100
	Permitted drive axle load (kg)	11500
	Permitted GVW (kg)	18000
Electrical motor		
	Output, max (kW)	155
	Torque (Nm)	400
Transmission and axles		
	Gearbox	Volvo 2-Speed Automated Manual Transmission
	Front axle	Volvo RFS-L
	Rear axle	ZF AV132
	Differential lock	No
Steering and suspension		
	Steering wheel side	Center position
	Power steering	Electric driven hydraulic steering
	Kneeling	Standard

VOLVO ELECTRIC CONCEPT BUS

FAST CHARGE, 10.7 m, CENTER DRIVER POSITION

Charging system

- Volvo Opportunity Charging
- Roof mounted interface for conductive charging
- Fully automatic fast charging sequence
- Fast Charge interface installed on roof, 1.2 m rear of front axle

Fast Charge time 6 min/10 km range
Fast Charge power up to 300 kW
Maintenance charging (400 VAC) 4 h/day

Energy storage system

- Lithium-Ion battery
- Water cooled

Voltage 600 V
Capacity 4 x 19 kWh

Cooling system

- Electrically driven fans with improved speed control
- No coolant filter
- Coolant level warning in instrument cluster

Tyres and rims

Steel rims available
Rims Tyres
7.5 x 22.5" 275/70 R22.5

Air and brake system

- Volvo disc brakes
- Electronic Braking System (EBS 5)
- Anti-lock Braking System (ABS)
- Acceleration Slip Regulation (ASR)
- Brake blending
- Hill start aid
- Brake temperature warning
- Poor brake performance warning
- Door brake
- Brake assistant
- Lining wear sensing and analysis
- Automatic calibration after brake pad change
- Compressed air system can easily be filled from external circuit

Exterior and structure

- Volvos patented lightweight aluminium body concept
- Front and rear wall in composite material and ABS elements
- Front and rear structure in anti-corrosion steel
- Double tinted glazing
- Multilayer exterior paint finish
- Easy repair of minor damages
- Parts commonality between city and intercity buses to lower maintenance cost
- Anti-corrosion treatment of underbody with conservation sealing and silencing agents
- LED lights
- Daytime running lights
- Cornering lights and auxiliary lights as option
- Electrically adjustable and heated external mirrors

Doors and door system

- Electric door system
- Double glazing in all doors
- Electric sensitive edge for increased passenger safety
- Extra wide doors for easy entry and exit

Climate system

- Roof mounted HVAC unit (Heating, Ventilation and Air Conditioning)
- One AC unit for both passenger and driver climate zones
- Driver's compartment with AC
- Separate climate zones for driver and passengers
- Pipe convectors and air blowers
- Auxiliary heater

Capacity

Roof heating mode 28 kW Water
9 kW Heat pump (Air/Air)

AC mode (35/40/47%) 26 kW

Defroster:
Heating Q80 16 kW
Cooling 5.0 kW
Air flow 731 m³/h

Convectors 551 W/m at Δ temp. 60 °C

Auxiliary heater Fuel (Diesel/HVO) 16 kW
Electric 7 kW

Interior

- Spacious and bright
- Comfortable
- Integrated position for passenger information displays
- Interior LED lights
- Low noise level
- Skylight
- WiFi
- USB ports

Passenger seats

- Volvo city seats featuring:
- Optimised city bus seat
 - Easy maintenance
 - Driver lockable seat cushions
 - Volvo Service and spare parts handling

Driver's seat and station

- Volvo dashboard
- Dashboard moves with the steering column in height and tilt
- Standard version (fulfilling ISO16121)
- Instrument cluster:
 - speedometer
 - power meter
 - 4.3" display
 - indicators
 - warning lamps
- Data logging
- Alcolock
- Outdoor temperature meter
- ISRI Driver's seat

Electrical system

- Automatic shut off of main switch at low voltage level

Number of batteries 2
Voltage 24 V
Battery type 12 V/105 Ah

Audio system

- Stereo radio with CD player
- Preparation kit for radio
- Foot controlled public address system
- City amplifier

VOLVO

Volvo Bus Corporation

Göteborg, Sweden
www.volvobuses.com