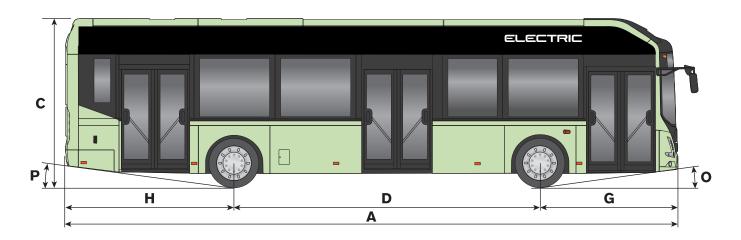


Volvo Buses. Driving quality of life

VOLVO 7900 ELECTRIC



Model	4 x 2, 12.0 m
Overall dimensions	
A Overall length (mm)	12000
Overall width (mm)	2550
C Overall height (mm)	3280
D Wheelbase (mm)	6000
G Front overhang (mm)	2700
H Rear overhang (mm)	3300
O Approach angle (°)	7.0
P Departure angle (°)	7.0
Turning radius (outer front corner) (mm)	11000
Turning radius (outer front wheel) (mm)	8900
Overall height, approach and departure angles with tyres	275/70 R22.5
Weights	
Permitted front axle load (kg)	7100
Permitted drive axle load (kg)	12000
Permitted GVW (kg)	19000
Electrical motor	
Output, max (kW)	160
Torque (Nm)	400
Transmission and axles	
Coorboy	Value 2 Speed Automated Manual Transmission

Gearbox	Volvo 2-Speed Automated Manual Transmission
Front axle	Volvo RFS-L
Rear axle	ZF AV132
Differential lock	No

VOLVO 7900 ELECTRIC

Model

4 x 2, 12.0 m

Steering and suspension			
Steering wheel side	LHD/RHD		
Power steering	Electric driven hydraulic steering		
Kneeling	Standard		

Charging system

- Volvo Opportunity Charging
- Roof mounted interface for conductive charging
- Fully automatic fast charging sequence
- Fast Charge interface installed on roof, above front axle (The same position as on Electric Hybrid)

Fast Charge time

3-6 min/10 km range

Fast Charge power maximum 300 kW

Depot battery conditioning (400 VAC)

4 h/day

Opportunity Charging optimised for normal city route (10 km). Spare capacity for handling disturbances

Charging time depends on topography, load and climate

Energy storage system

- Lithium-ion battery
- Water cooled and heated
- Automatic temperature controlling of batteries

Voltage

600 V

Capacity (total energy)

4 x 19 kWh

Cooling system

- Electrically driven fans with improved speed control
- No coolant filter
- Coolant level warning in instrument cluster
- Higher allowed coolant temperature for better cooling performance

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, easily filled
 from external circuit

Exterior and structure

- Volvo's patented lightweight aluminium body concept
- Front and rear wall in composite material and ABS elements
- Front and rear structure in anticorrosion 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
- Auxiliary lights and fog lights as options
- Electrically adjustable and heated external mirrors

Doors and door system

- Electric door system
- Single glazing in all doors
- Electric sensitive edge for increased passenger safety

ily filled

VOLVO 7900 ELECTRIC

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
- Driver convector or blower
- Auxiliary heater

Capacity

Roof heating mode

28 kW Water 9 kW Heat pump (Air/Air)

AC mode (35/40/47%)

26 kW

Defroster:

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

Passenger seats

Volvo city seats featuring:

- Optimised city bus seat
- Easy maintenance
- Available in a wide range of specifications to meet the demands of individual customers
- Volvo Service and spare parts handling

Driver's seat and station

- Volvo dashboard
- Dashboard moves with the steering column in height and tilt
- Available in Standard (fulfilling ISO16121) and VDV version. The VDV version with multistalk for wiper and direction indicator on left side of the steering wheel
- Instrument cluster:
- speedometer
 - power meter
 - 4.3" display
- indicators
- warning lamps
- Data logging
- Volvo Alcolock
- Outdoor temperature meter
- ISRI driver's seat

Electrical system

Automatic shut off of main switch at low voltage level

Number of batteries

2 x 12 V

Battery capacity 2 x 105 Ah

Audio system

- Stereo radio with CD player
- Foot controlled public address system
- Amplifier adapted to city bus



Volvo Bus Corporation volvobuses.com