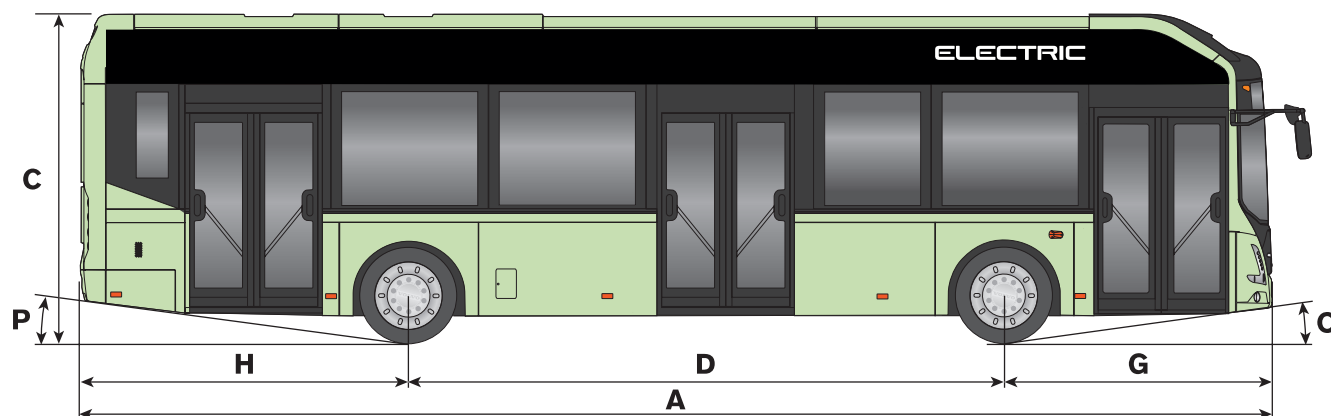




Volvo Buses. Driving quality of life

# VOLVO 7900 ELECTRIC



Model	4x2, 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		
	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	LHD/RHD
	Power steering	Electric driven hydraulic steering
	Kneeling	Standard

# VOLVO 7900 ELECTRIC

## 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                                   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 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
- Fog lights and auxiliary lights as option
- 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

## 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:	
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

## Passenger seats

Volvo city seats featuring:

- Optimised city bus seat
- Easy maintenance
- Available in a wide range of specifications to meet individual customers' demands
- 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
- 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
- Foot controlled public address system
- Amplifier adapted to city bus

# VOLVO

Volvo Bus Corporation

Göteborg, Sweden  
www.volvobuses.com