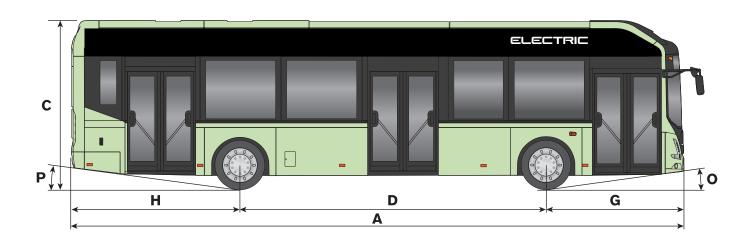


# **VOLVO 7900 ELECTRIC**



M	odel	4 x 2, 12.0 m
Overall dimensions		
Α	Overall length (mm)	12000
	Overall width (mm)	2550
С	Overall height (mm)	3300
D	Wheelbase (mm)	6000
G	Front overhang (mm)	2700
Н	Rear overhang (mm)	3300
0	Approach angle (°)	7.0
Р	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)	7500
Permitted drive axle load (kg)	12000
Permitted GVW (kg)	19500

Electrical motor	
Output, max (kW)	180
Torque (Nm)	425

Transmission and axles	
Gearbox	Volvo 2-Speed Automated Manual Transmission
Front axle	Volvo RFS-L
Rear axle	ZF AV133
Differential lock	No

# **VOLVO 7900 ELECTRIC**

Model	4 x 2, 12.0 m
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Steering and suspension	
Steering wheel side	LHD/RHD
Power steering	Electric driven hydraulic steering
Kneeling	Standard

#### **Charging system**

- Three different charging systems available
- Charging time depends on topography, load, climate and drive cycle

#### **Volvo Opportunity Charging (OppCharge)**

Maximum charge power 300 kW
Roof-mounted interface, installed above front
axle for conductive charging (The same
position as on Electric Hybrid)
Fully automatic charging sequence

#### CCS

Maximum charge power 150 kW 600 V DC Front charging comes as standard Side and rear charging are optional European standard connector Manual Connection

#### Low power charging

Maximum charge power 11 kW 400 V AC European standard connector Manual Connection

## **Energy storage system**

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

#### Voltage

600 V

# Capacity (total energy)

150, 200 or 250 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 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 headlamps
- · LED Daytime running lights
- Auxiliary lights and fog lights as options
- Electrically adjustable and heated external mirrors

# Doors and door system

- · Electric door system
- Inward gliding and outward sliding doors available
- · Double glazing in all doors
- Electric sensitive edge for increased passenger safety

# **VOLVO 7900 ELECTRIC**

#### **Climate system**

- Roof-mounted HVAC unit (Heating, Ventilation and Air Conditioning, including heat pump functionality)
- · Pipe convectors and air blowers
- · Air blowers at doors
- · Defroster with AC
- · Driver convector or blower
- · Auxiliary diesel/electric heater
- Separate climate zones for driver and passengers
  - For optimal climate and energy efficiency, the passenger temperature is controlled by a pre-set temperature curve
  - The temperature in the driver's area is manually controlled

#### Capacity

#### Roof heating mode:

28 kW Water

9 kW Heat pump (Air/Air)

#### AC mode (35/40/47%):

25 kW

#### **Defroster:**

Heating Q80

18 kW

Cooling 5.5 kW

Air flow

880 m<sup>3</sup>/h

#### **Convectors:**

551 W/m at  $\Delta$  temp. 60 °C

#### **Driver AC:**

- For hot markets: Electrical roof-mounted driver AC, connected to defroster
- Standard: Defroster connected to passenger AC unit

### **Auxiliary heater:**

Fuel (Diesel/HVO/Biodiesel) 16 kW Electric 14 kW

#### Interior

- · Spacious and bright
- Comfortable
- Integrated position for passenger information displays

**Audio system** 

· Stereo radio with DAB

Amplifier adapted to city bus

Foot controlled public address system

- · 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

#### **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
- · Volvo Dynamic Steering (VDS)
- Pedestrian and Cyclist Detection System

# **Electrical system**

Automatic shut off of main switch at low voltage level

#### Number of batteries

2 x 12 V

### **Battery capacity**

105 Ah



**Volvo Bus Corporation** 

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