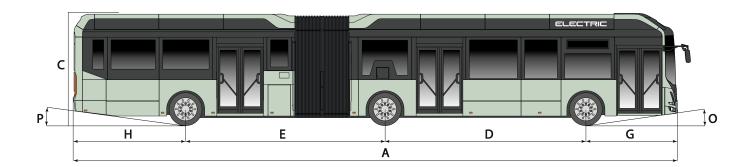


No

### **VOLVO 7900 ELECTRIC ARTICULATED**



Model		Articulated, 18.0 m	Articulated, 18.7 m
0	verall dimensions		
Ā	Overall length (mm)	17,849	18,557
	Overall width (mm)	2,550	2,550
С	Overall height (mm)	3,320	3,320
D		5,945	5,945
E	Rear wheelbase (mm)	5,897 (4,037 + 1,860)	6,605 (4,745 + 1,860)
	Max horizontal/vertical turning angle of articulated joint (°)	52/10	52/10
G	Front overhang (mm)	2,699	2,699
н	Rear overhang (mm)	3,308	3,308
0	Approach angle (°)	7.0	7.0
Р	Departure angle (°)	7.0	7.0
	Turning radius (outer front corner) (mm)	12,305	12,305
	Turning radius (outer front wheel) (mm)	10,750	10,750
	Overall height, approach and departure angles with tyres	275/70 R22.5	275/70 R22.5
W	leights		
	ermitted front axle load (kg)	7,500	7,500
Permitted drive axle load (kg)		12,500	12,500
Permitted middle axle load (kg)		10,000	10,000
Permitted GVW (kg)		29,000	29,000
E	ectrical motor		
0	utput, max (kW)	R85 max 2x200	R85 max 2x200
		R85 30 min 170	R85 30 min 170
M	ax wheel torque (Nm)	31,000	31,000
Tr	ansmission and axles		
_		Volvo 2-Speed Automoated,	Volvo 2-Speed Automated,
G	earbox	Manual Transmission	Manual Transmission
Fr	ont axle	Volvo RFS-L	Volvo RFS-L
Re	ear axle	ZF AV133	ZF AV133

Rear axle Differential lock

No

# **VOLVO 7900 ELECTRIC ARTICULATED**

Model	Articulated, 18.0 m	Articulated, 18.7 m
Steering and suspension		
Steering wheel side	LHD	LHD
Power steering	Electric driven hydraulic	Electric driven hydraulic
	steering	steering
Kneeling	Standard	Standard

#### **Charging system**

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

#### Volvo Opportunity Charging (OppCharge)

Maximum charge power 450 kW Roof-mounted interface, installed above front axle for conductive charging (The same position as on Electric Hybrid) Fully automatic charging sequence

#### CCS DC

Maximum charge power 150 kW Front charging comes as standard Side and rear charging are optional \* European standard connector Manual Connection

\* Removes front charging. Only one inlet can be installed per vehicle.

#### Energy storage system

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

#### Voltage

600 V

#### Capacity (total energy)

264- 396 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 ARTICULATED**

#### **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

#### AC unit:

Cooling capacity max (35/40/47%) 31 kW Heating capacity at Q80 56 kW

### Roof heating unit (when not specified with AC):

Heating capacity at Q80 50 kW 9 kW Heat pump (Air/Air)

#### Convectors:

Heating capacity at Q100 918 W/m

#### Defroster:

Heating capacity at Q80	
18 kW	
Cooling capacity max	
5.5 kW	
Airflow max at dP 0	
880 m³/h	

#### Driver AC:

Electrical roof-mounted driver AC, connected to defroster

#### Auxiliary heater:

Heating capacity 41 kW (18 kW electric and 23 kW fuel)

Fuel: Diesel/HVO/Biodiesel

#### Interior

- · Spacious and bright
- Comfortable
- Integrated position for passenger
- Information displays
- Interior LED lights

#### 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
- Instrument cluster:
- speedometer
- power meter
- 4.3" display
- indicators
- warning lamps
- 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

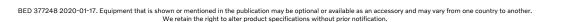
105 Ah

#### Audio system

- Stereo radio with DAB
- · Foot controlled public address system
- Amplifier adapted to city bus

#### Ready to run

- The bus will keep the batteries in working temperature, to ensure that the bus can be started directly when needed without pre-heating period
- 24V batteries will be charged from 600V battery
- Pre-heating of interior can be done via setting timer



VOLVO

Volvo Bus Corporation