

V O L V O

Meet the all-new

VOLVO 8900 ELECTRIC



Volvo Buses



ALL ELECTRIC. ALL VOLVO.

The Volvo 8900 Electric is a highly versatile electric bus for safe, sustainable and reliable public transport operation in city and commuter applications. Excellent comfort for both passengers and driver, and outstanding services for energy efficiency and fleet management.

Made to just keep running

The Volvo 8900 Electric is a productivity booster for city and commuter applications. Built on Volvo's e-mobility architecture, top-rated in uptime.

Our usable energy commitment

The maximum range of an electric bus varies with temperature, driving style and battery condition. Based on a joint analysis, Volvo offers a guaranteed onboard energy capacity that covers the need for the route, from day one and throughout the contract period.

Designed for life-long sustainability

At Volvo Buses, sustainability is more than zero tailpipe emissions. The Volvo 8900 Electric is manufactured to the highest quality and sustainability standards. We focus on the details that help us reach our ambitious climate targets – in development and manufacturing, when handed over to our customers, and at the end of the vehicles' life. This is how we deliver sustainable transport solutions.

Long service intervals

The Volvo 8900 Electric is built to cope with long working shifts and tight schedules. To optimise availability, we offer individual maintenance plans based on the vehicle's actual operational history. Simply put, more hours on the road and fewer, shorter service visits.

The energy saving I-Shift transmission

Electric motors can deliver massive torque also at low speed. To optimise acceleration performance and save energy, the Volvo 8900 Electric features a two-speed version of the renowned Volvo I-Shift gearbox.

Charging flexibility – unlimited range

Every route is unique, and tight schedules call for efficient charging strategies. The Volvo 8900 Electric features dual charging options; up to 250 kW via cable or up to 450 kW with OppCharge. With on-route charging, the number of batteries onboard can be reduced, and still deliver a daily range that is literally unlimited. And, as a bonus, the reduced vehicle weight increases passenger capacity.

State-of-the-art battery management system

A bus battery will substantially increase its lifetime if it is managed correctly, both in operation and in charging and maintenance. All Volvo electric buses feature a smart battery management system, which controls all charging and discharging processes, and it also monitors battery health and performance.





A rewarding driver experience

First-class driving environment

The Volvo 8900 Electric comes with several features that boost comfort and safety for the driver. A multifunction steering wheel and a dynamic instrument cluster with different views provide a superior overview of important driver information, enhancing driver focus and control.

Stability and control

Stability in all driving situations and a short turning radius give outstanding manoeuvrability – in the city and on the urban highways. Add to that the powerful high-torque motors, the automated gearbox and over-dimensioned braking capabilities. A Volvo puts the driver in control.

Active safety systems

The Volvo 8900 Electric offers an array of intelligent functions that help the driver to drive safely and avoid incidents, and that protect from injuries and damage. Smart sensors and advanced software detect events that could lead to dangerous situations. The features focus on early warnings to the driver about upcoming risks and protection of vulnerable road users, such as pedestrians and cyclists.

Volvo Dynamic Steering

This technology improves steering responsiveness and precision. It reduces the strain on the driver's shoulders, neck and arms, and adds stability and ride comfort for your passengers.



Passenger satisfaction

The passenger space of the Volvo 8900 Electric is defined by attractive simplicity and functionality. Your passengers will appreciate the comfortable Volvo-designed seats and for longer journeys there are practical details such as the generous luggage racks and optional service sets with individual reading lamps.

Comfortably seated

The Volvo 8900 Electric offers seat options ranging from space-efficient city seats to high-spec intercity comfort. Smart textiles make for long-lasting freshness and easy cleaning. All seats can be equipped with three-point seat belts, booster cushions and even integrated rear-facing child seats.

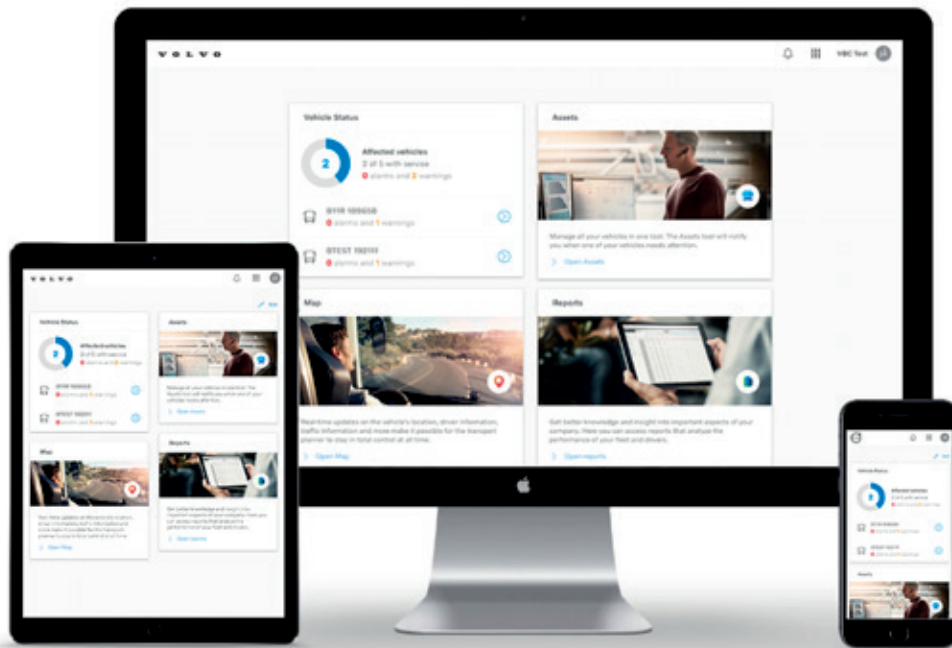
Customer care

Your passengers have the right to expect both convenience and comfort. In the Volvo 8900 Electric, the interior is bright and spacious, and the upgraded ventilation keeps the climate controlled. Add to that very good visibility and a low interior noise level. For passengers with mobility disabilities, the boarding ramp facilitates boarding still further.



Connect to productivity

Uptime is number one. With Volvo's range of connected services and extensive network for service and parts logistics, your vehicles will spend more time on the road. And with our service contracts, your maintenance can be optimised for each individual vehicle.



Volvo Connect

With Volvo Connect you can save fuel, increase efficiency, secure uptime, boost safety and grow profitability. Volvo Connect is a web-based portal, and your entrance to the world of Volvo Bus Services, including fleet management services. Reports, vehicle management, positioning and driving profile will help you improve productivity. Volvo Connect also includes our unique geofencing service Zone Management, and a line-up of workshop services.

Service contracts

A service contract has one purpose only: to keep your vehicles available, safe and productive. A well-maintained bus or coach will simply do a better job. The risk of unplanned stops, or even breakdowns, is significantly reduced. There is a service contract for every need. In addition to our principal contracts, Blue, Silver and Gold, there are several options for tailoring the coverage to suit your operation.

Facts and figures

Dimensions and weights

Model	4x2	6x2
Length (m)	12.3	14.9
Width (m)	2.55	2.55
Height (m)	3.6	3.6
Permitted GVW (kg)	20,600	27,000

Driveline

Electric motor, output max (kW)	R85 max 2x200 R85 30 min 2x167	R85 max 2x200 R85 30 min 2x167
Max wheel torque (Nm)	31,000	31,000
Gearbox	Volvo 2-speed automated manual transmission	

Charging*

Roof charging: OppCharge and panto up (roof-mounted pantograph), max charge power (kW)	450	450
CCS max charge power (kW)	250	250

* Max charge power depending on configuration of the energy storage system.

Energy storage system

Capacity (kWh)	Up to 450	Up to 540
Traction battery	Lithium-ion, NCA	

Passenger capacity

No. of passengers, max	88	110
No. of seats, max	43	57
Passenger seats	Volvo coach line, Volvo intercity line or Volvo city line seats.	

Climate system

Separate climate zones for driver and passengers. For optimal climate and energy efficiency, the passenger area temperature is controlled by a pre-set temperature curve. The temperature in the driver's area is manually controlled.

Heat pump mode (kW)	25 kW (Tout -10, Tin 16)
AC mode (kW)	28 kW (Tout 35, Tin 40)
Defroster: Heating (kW)	18 kW (Q80)
Defroster: Cooling (kW)	5.5 kW
Defroster: Air flow (kW)	880 m3/h
Convectors: (kW)	900W/m (Q80)
Electrical heaters (kW)	2x12 kW
Fuel heater (optional) (kW)	23 kW

Axles, suspension and steering

Front axle	Volvo RFS-L
Rear axle	Volvo RS1228C
Suspension	Electronically controlled air suspension with kneeling function available
Power steering	Electrically powered hydraulic steering, Volvo Dynamic Steering.
Tyres	295/80 or 305/70
Rims	Steel or aluminium rims, 7.50"×22.5", 8.25"×22.5" or 8.25"×22.5"

Brakes

Volvo disc brakes. Electronic Braking System (EBS5). Electronic Stability Program (ESP). Anti-lock Braking System (ABS). Acceleration Slip Regulator (ASR). Brake blending.

Driver's environment

Spacious driver's environment with wide range of individual adjustment possibilities. Volvo dashboard designed according to ISO16121 and VDV requirements. Driver's seat available with armrests and swivel function.

Safety features

- Acoustic Vehicle Alerting System, AVAS
- Volvo Safety Zones, part of Volvo Zone Management
- Volvo Dynamic Steering, VDS
- Forward Collision Warning
- Front Short Range Assist
- Side Collision Avoidance Support, SCAS
- Lane Change Support, LCS
- Lane Keeping Support, LKS
- Driver Alert Support, DAS
- Intelligent Speed Assist
- Tire Pressure Monitoring System, TPMS
- Hill Start Aid
- Emergency Stop Signal
- Front Impact Protection System compliant with the R29 front impact requirement
- Front Underrun Protection System compliant with the R93 underrun protection requirement
- Rear Underrun and Impact Protection System compliant with the R58 protection requirement

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Equipment that is shown or mentioned in the folder may be optional or available as an accessory and may vary from one country to another. We retain the right to alter product specifications without prior notification.