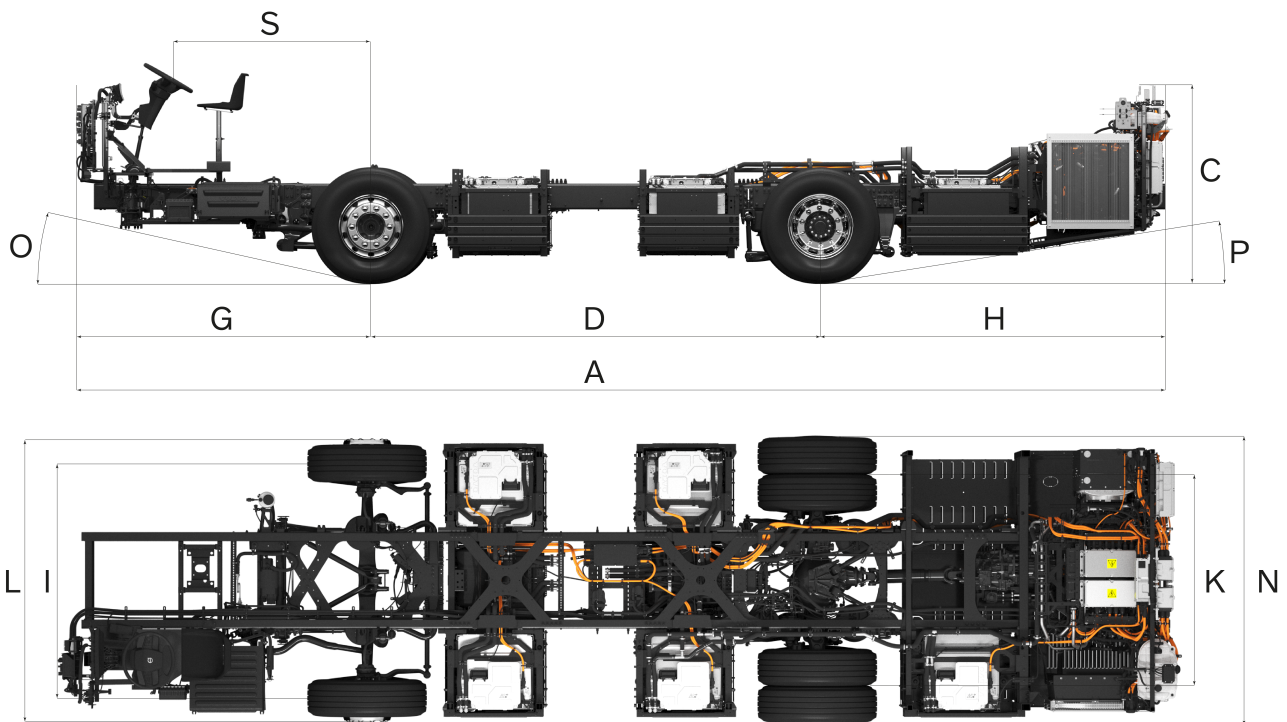


VOLVO BZR ELECTRIC 4X2



Model BZR Electric 4x2

Dimensions

A	Overall chassis length, depending on body, up to (mm)		9,500–13,260
C	Frame height at rear structure (mm)*		1,560
D	Transport wheelbase (mm)		4,000
	Approved wheelbase (mm)		4,450–7,400
G	Front overhang (mm)	SWP1470	2,150
		SWP1650	2,330
		SWP1820	2,500
		SWP2050	2,730
H	Rear overhang (mm)		3,130
	Optional rear overhang (mm)		2,900
	Optional rear overhang (mm)		3,220
S	Steering wheel position (mm)		1,470
			1,650
			1,820
			2,050
I	Track, front (mm)*		2,049
K	Track, rear (mm)*		1,834
L	Overall width, front wheels or housing (mm)*		2,500

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N	Overall width, rear wheels (mm)*	2,480
O	Approach angle (°) (SWP2050)*	11.0
P	Departure angle (°)	8.0
	Departure angle (°) (optional) (Rear overhang 2,900 mm)	9.0
	*) Overall height, approach and departure angles with tyres:	295/80 R22.5, 8.25 x 22.5

Weights

Permitted front axle load (kg)	8,200
Permitted driving axle load (kg)	13,000
Permitted GVW (kg)	21,200

Electric motor

EPT 402 (1 motor)	
Output, max (kW)	R85 max 200
Continuous power (kW)	R85 30 min 167
Max torque (Nm)	425
Max wheel torque up to (Nm)	20,900
EPT802 (2 motors)	
Output, max (kW)	R85 max 400
Continuous power (kW)	R85 30 min 334
Max torque (Nm)	850
Max wheel torque up to (Nm)	33,500

Energy storage system (ESS)

Available storage energy (battery capacity)	90 kWh
Available storage energy (4–6 batteries)	360–540 kWh
Battery type	Lithium-ion, NCA
Voltage	600 V
Mass per battery (kg)	535 kg

Electrical system (Automatic shut off of main switch at low voltage level)

Number of batteries	2x12 V
Battery capacity	2x140 Ah/2x170 Ah

Transmission and axles

Gearbox	Volvo 2-speed automated manual transmission
Front axle	Volvo RFS
Rear axle	Volvo RS1228C
Differential lock	Optional

Suspension and steering

Air bellows, front	2
Air bellows, rear	4
Kneeling	Optional
Max wheel angle	52 with 295/80 R22.5 tyres
Power steering	Electric driven hydraulic steering
Steering wheel side	LHD/RHD

Tyres and rims

Tyres	275/70 R22.5"
	295/80 R22.5"
	305/70 R22.5"
	315/70 R22.5"

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315/80 R22.5"

Rims (steel or aluminium)

7.50 x 22.5"

8.25 x 22.5"

9.00 x 22.5"

Charging system

CCS DC

- Industry standard solution
- Max 250 kW charging power
- Front or rear charging/left or right charging

OppCharge

- Industry standard solution
- Max 450 kW charging power
- Customer decision of position of rails

Energy storage system (ESS) safety

- Battery monitoring
- Safety on cell and pack level (monitoring)
- Thermal management system
 - Independent from climate system
 - Coolant level warning in instrument cluster
 - Automated control of battery temperature with energy-efficient 600 V active cooling/heating system
 - Electric driveline and auxiliaries cooling circuit
 - Waste heat from the driveline circuit is used to heat the battery circuit through a heat exchanger
- Insulation isolation resistance monitoring
- Charging safety
- Workshop safety
- Mechanical protection
- Water immersion protection
- E-info session
- Rescue sheet

Volvo Ready to run

- The bus will keep the batteries in working temperature, to ensure that the bus can be started directly when needed without a pre-heating period
- 24 V batteries will be charged from the 600 V battery
- Pre-heating/cooling of the interior can be done when supported by HVAC supplier

Climate system

Chassis prepared for various roof-mounted HVAC units from different suppliers (heating, ventilation and air conditioning, including heat pump functionality).

Air and brake system

- Volvo disc brakes
- Electronic Braking System (EBS 5)
- Electronic Stability Control (ESC)
- Anti-lock Braking System (ABS)
- Anti Slip Regulation (ASR)
- Brake blending
- Hill Start Aid
- Brake temperature warning
- Brake Assist
- Wear indicator on brake pads
- Pneumatic system, easily accessible for external fill

Driver station

Cluster and controls transit mounted. Also available with Volvo dashboard:

- Full dynamic cluster with 12.3" digital display
- Steering wheel buttons for easy access
- Integrated radio with Bluetooth mobile connection
- Tachograph information in cluster
- Automatic headlamp switch
- Rain sensor
- Charging information
- Longer retarder stalk
- Volvo Dynamic Steering

Active safety systems

- Forward Collision Warning
- Collision Warning with City Brake
- Collision Warning with Emergency Brake
- Emergency Stop Signal
- Intelligent Speed Assist
- Front Short Range Assist
- Side Collision Avoidance Support
- Tire Pressure Monitoring System
- Driver Alert System
- Lane Change Support
- Lane Keeping Support
- Adaptive Cruise Control
- Safety Zones