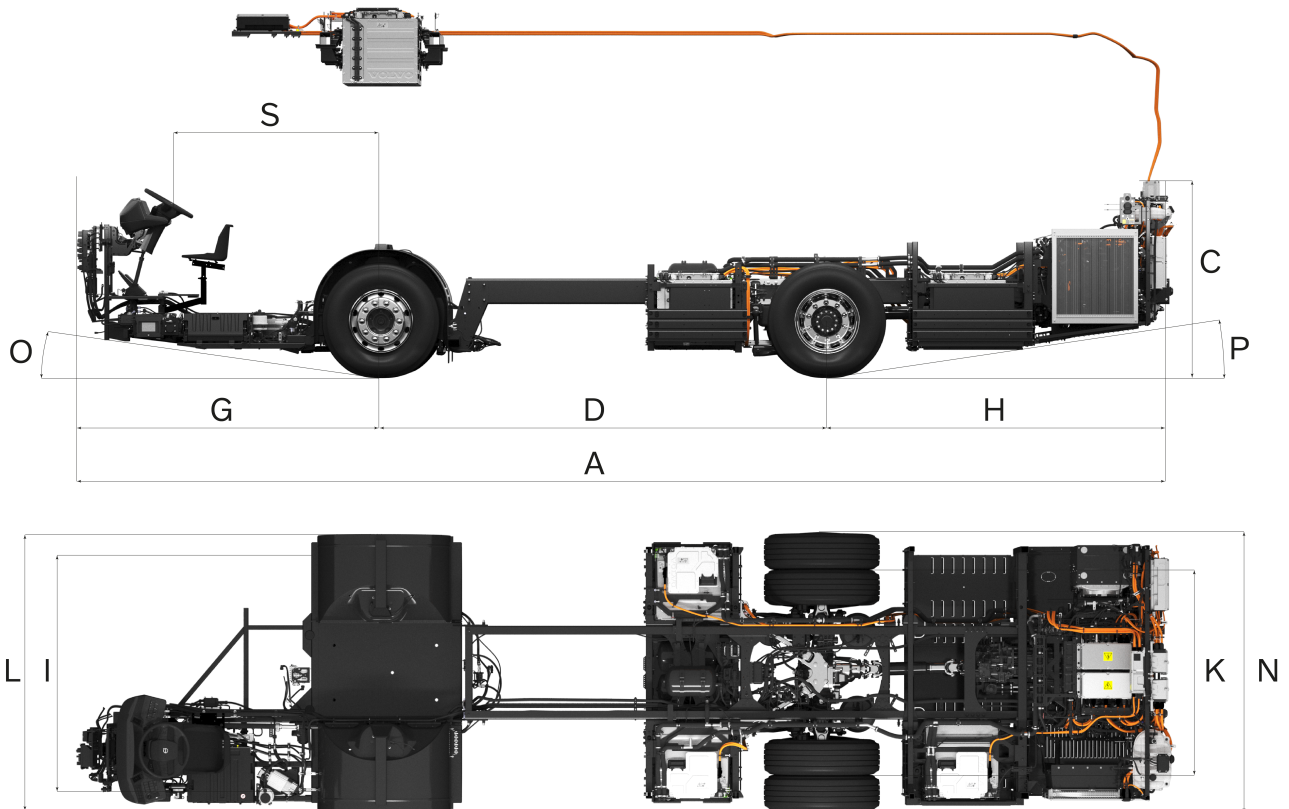


VOLVO BZR LOW ENTRY ELECTRIC 4X2



Model BZR Low Entry Electric 4x2

Overall dimensions

A	Overall chassis length, depending on body, up to (mm)		9,850–13,130
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)	SWP1920	2,500
		SWP2020	2,600
H	Rear overhang (mm)		3,130
	Optional rear overhang (mm)		2,900
S	Steering wheel position (mm)		1,920
			2,020
I	Track, front (mm)*		2,068
K	Track, rear (mm)*		1,834
L	Overall width front wheels or housing (mm)*		2,500
N	Overall width rear wheels (mm)*		2,480
O	Approach angle (°) (SWP2020)*		8.0

VOLVO BZR LOW ENTRY ELECTRIC 4X2

Model BZR Low Entry Electric 4x2

P	Departure angle (°)	8.0
	*) Overall height, approach and departure angles with tyres:	295/80 R22.5.8.25 x 22.5

Weights

Permitted front axle load (kg)	8,000
Permitted drive axle load (kg)	12,600
Permitted GVW (kg)	20,600

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 (Nm)	19,000

EPT802 (2 motors)

Output, max (kW)	R85 max 400
Continuous power (kW)	R85 30 min 334
Max torque (Nm)	850
Max wheel torque (Nm)	31,000

Energy storage system (ESS)

Available storage energy (battery capacity)	90 kWh
Available storage energy (4–5 batteries)	360–450 kWh
Battery chemistry 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	2 x 12 V
Battery capacity	2 x 140 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
Power steering	Electric driven hydraulic steering
Steering wheel side	LHD

Tires and rims

Tires	275/70 R22.5"
	295/80 R22.5"
	305/70 R22.5"
	315/70 R22.5"
Rims	7.50 x 22.5
	8.25 x 22.5

VOLVO BZR LOW ENTRY ELECTRIC 4X2

Model BZR Low Entry Electric 4x2

9.00 x 22.5

Charging system

CCS2 DC

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

OppCharge

- Industry standard solution
- Maximum charge power 450 kW
- Customer decision of position of rails

Energy storage system (ESS) safety

- Battery monitoring
- Safety on cell and pack level (monitoring)
- Insulation isolation resistance monitoring
- Charging safety
- Workshop safety
- Mechanical 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

Thermal management system

- Thermal management system independent from the 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

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)
- 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
- Pneumatic system, easily filled from external circuit
- Electronic Stability Control

Driver's station

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

- Dashboard that moves with steering wheel adjustment
- Volvo Dynamic Steering
- Digital instrument cluster
- Steering wheel buttons for easy access
- Integrated infotainment
- Digital speed
- Charging information
- State of charge in %
- Remaining distance
- Power meter
- Volvo active safety systems
- Longer retarder stalk

Active safety systems

- Front/rear camera
- Side/front radars
- Forward Collision Warning
- Side Collision Avoidance Support
- Front Short Range Assist
- Lane Keeping Support
- Lane Change Support
- Intelligent Speed Assist
- Driver Alert Support
- Tire Pressure Monitoring System