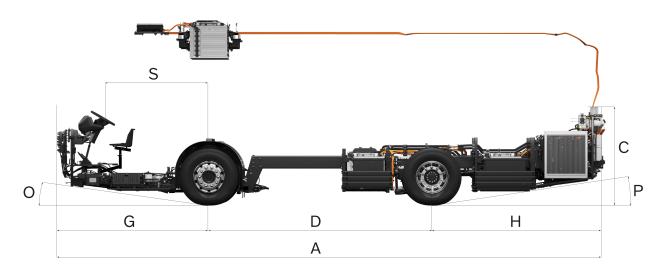
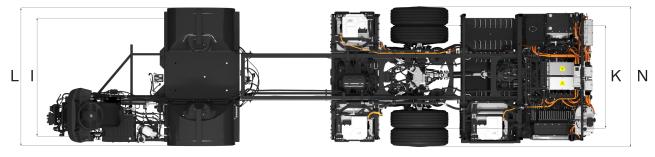
### V O L V O

# **VOLVO BZR LOW ENTRY ELECTRIC 4X2**





#### Model BZR Low Entry Electric 4x2

Dim	Dimensions				
Α	Overall chassis length, depending on body, up to (mm)		9,850-13,130		
С	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		
Н	Rear overhang (mm)		3,130		
	Optional rear overhang (mm)		2,900		
	Optional rear overhang (mm)		3,220		
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		

# **VOLVO BZR LOW ENTRY ELECTRIC 4X2**

Model B	ZR Low Entry Electric 4x2	
	pproach angle (°) (SWP2020)*	8.0
	eparture angle (°)	8.0
D	eparture 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		
	d front axle load (kg)	8,000
		13,000
Permitted driving axle load (kg)  Permitted driving axle load (kg) (optional rear overhang 3,220 mm)		12,600
Permitted GVW (kg)		21,000
1 CHINICE	d dvvv (kg)	21,000
Electric ı	motor	
	2 (1 motor)	
<u> </u>	max (kW)	R85 max 200
	ous power (kW)	R85 30 min 167
	que (Nm)	425
	eel torque up to (Nm)	20,900
	(2 motors)	
	max (kW)	R85 max 400
	ous power (kW)	R85 30 min 334
	jue (Nm)	850
Max whe	eel torque up to (Nm)	33,500
Energy s	torage system (ESS)	
	e storage energy (battery capacity)	90 kWh
Available storage energy (4–5 batteries)		360-450 kWh
Battery t		Lithium-ion, NCA
Voltage	,,,,,	600 V
	r battery (kg)	535 kg
		-
Electrica	l system (Automatic shut off of main switch at low voltage level)	
Number	of batteries	2 x 12 V
Battery o	capacity	2 x 140 Ah/2 x 170 Ah
Transmis	ssion and axles	
Gearbox		Volvo 2-speed automated manual transmission
Front axl	e	Volvo RFS-L
Rear axle		Volvo RS1228C
Different	ial lock	Optional
	ion and steering	
	ws, front	2
Air bellov		4
Kneeling		Optional Section Process
	eel angle	52 with 295/80 R22.5
Power steering		Electric driven hydraulic steering
Steering	wheel side	LHD/RHD
Tyres and	d rims	
Tyres		275/70 R22.5"
•		295/80 R22.5"
		305/70 R22.5"

315/70 R22.5"

### **VOLVO BZR LOW ENTRY ELECTRIC 4X2**

#### Model BZR Low Entry Electric 4x2

Rims	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/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 roofmounted 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
- Emergency Stop Signal
- Intelligent Speed Assist
- Front Short Range Assist
- Side Collision Avoidance Support
- Tire Pressure Monitoring System
- Driver Alert Support
- Lane Change Support
- Lane Keeping Support
- Safety Zones