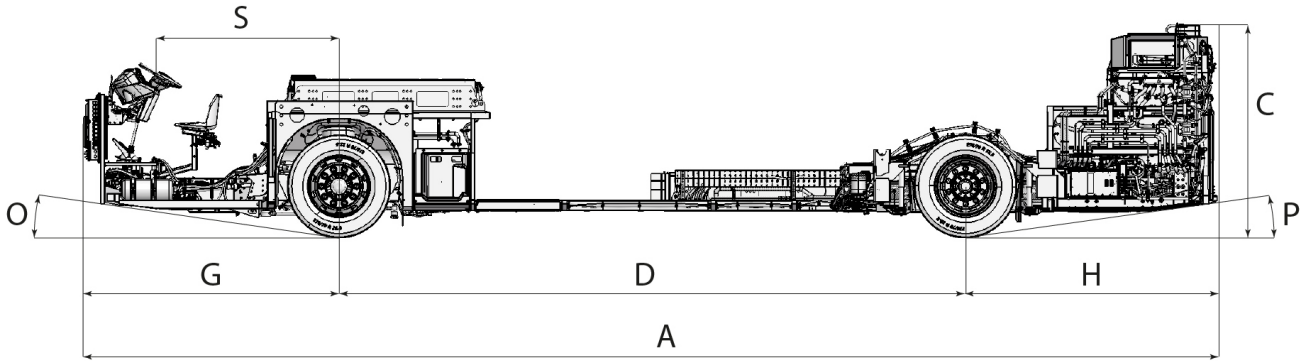
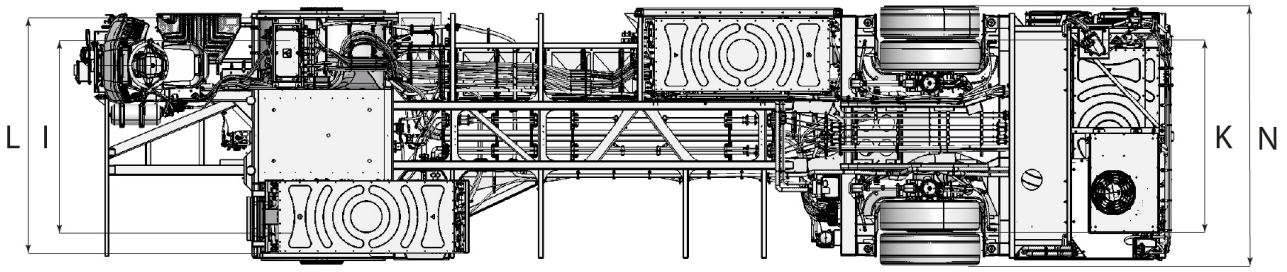
VOLVO BZL DD ELECTRIC





Model	BZL DD Electric

Overall dimensions		
A	Overall chassis length, depending on body, up to (mm)	10585
C	Frame height at rear structure (mm)	1695
D	Wheelbase	5965
G	Front overhang (mm)	2265
H	Rear overhang (mm)	2355
S	Steering wheel position (mm)	1683
I	Track, front (mm)*	2107
K	Track, rear (mm)*	1885
L	Overall width front wheels or housing (mm)*	2500
N	Overall width rear wheels (mm)*	2500
O	Approach angle (°)	7
P	Departure angle (°)	7
	*) Overall height, approach and departure angles with tyres:	275/70 R22.5

Weights	
Permitted front axle load (kg)	7500
Permitted drive axle load (kg)	12000
Permitted GVW (kg)	19500

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Electrical motor EPT402	
Output, max (kW)	R85 max 200
Continuous power (kW)	R85 30 min 167
Max torque (Nm)	425
Max wheel torque (Nm)	19000

Transmission and axles	
Gearbox	Volvo 2-speed Automated Manual Transmission
Front axle	Volvo RFS-L
Rear axle	ZF AV133
Differential lock	No

Suspension and steering	
Air bellows, front	2
Air bellows, rear	4
Kneeling	Optional
Max wheel angle	53
Power steering	Electric driven hydraulic steering
Steering wheel side	LHD/RHD

Energy storage system

- Lithium-ion battery
- Chassis including ESS module
- Automatic temperature controlling of batteries

ESS (Energy Storage System)

Available storage energy (battery capacity)
94 kWh

Available storage energy (4–5 batteries)
376, 470 kWh

Battery chemistry type
Lithium-ion, NCA

Energy density (Wh/kg)
159 Wh/kg (incl. brackets)

C Rating (maximum charge/discharge rate)
0.9

Voltage
600 V

Mass (kg)
590 kg incl. brackets

Charging system

CCS2 DC

- Industry standard solution
- Maximum charge power 150 kW
- Rear right charging

OppCharge

- Industry standard solution
- Maximum charge power 300 kW
- Customer decision of position of rails

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 pre-heating period
- 24 V batteries will be charged from 600 V battery
- Pre-heating/cooling of interior can be done when supported by HVAC supplier

Cooling system

- Coolant level warning in instrument cluster
- Automated control of battery temperature with active cooling/heating
- Electric driveline and auxiliaries cooling circuit
- No coolant filter

Climate system

- Chassis prepared for various roof-mounted HVAC units from different suppliers (heating, ventilation and air conditioning, including heat pump functionality)
- High-voltage heaters come pre-assembled on chassis (0–24 kW)

Tyres and rims

Steel and aluminium 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
- Pneumatic system, easily filled from external circuit

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Driver's station

Volvo dashboard or Limited dashboard, completed by body builder. Dashboard moves with the steering column in height and tilt (Volvo dashboard).

- Instrument cluster
  - speedometer
  - power meter
  - 4.3" display
  - SOC gauge
  - brake pressure gauge
  - indicators
  - warning lamps
- Tachograph
- Data logging
- Volvo Alcolock
- Outdoor temperature meter

Electrical system

Automatic shut off of main switch at low voltage level

Number of batteries
2 x 12 V

Battery capacity
2 x 105 Ah

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