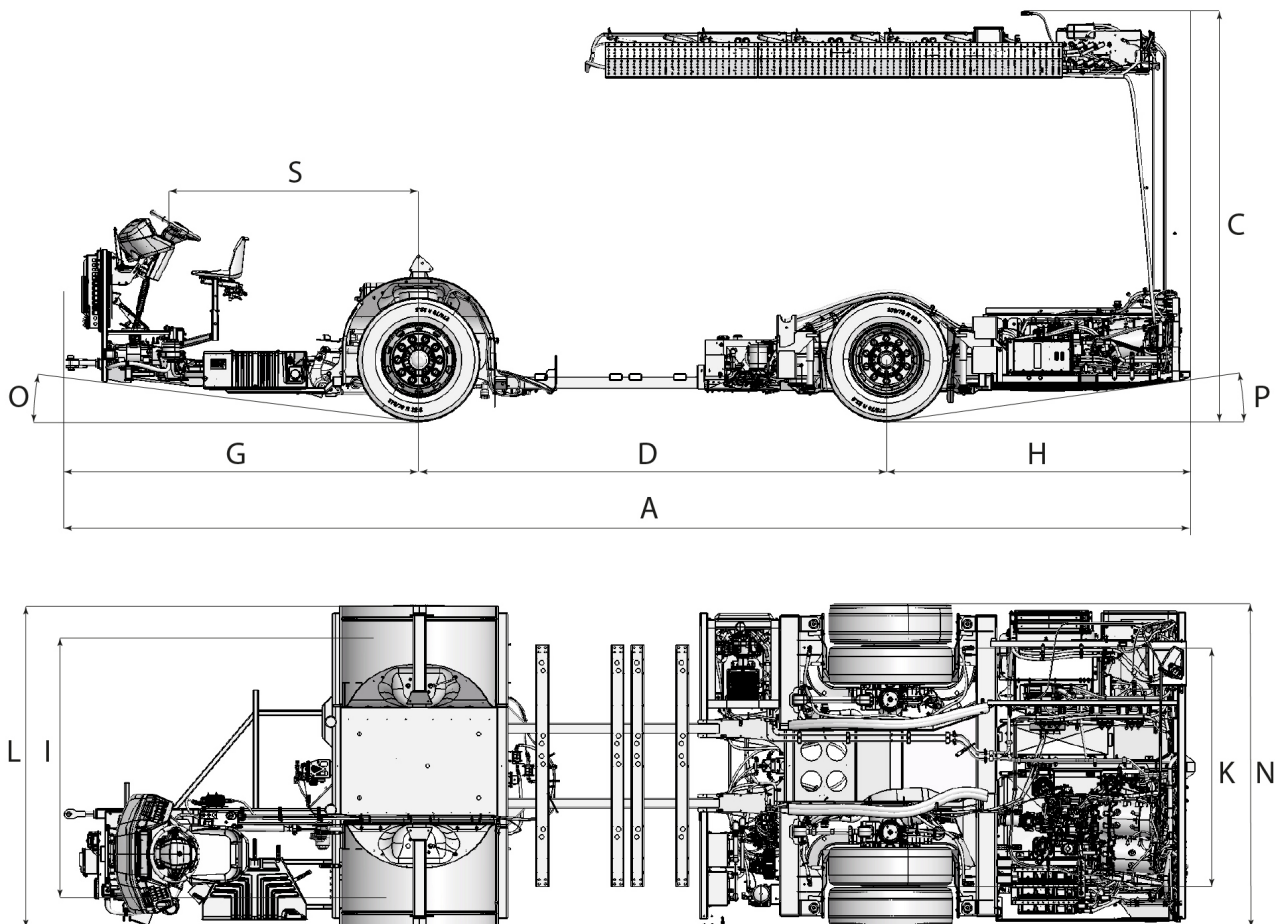


VOLVO BZL ELECTRIC



Model		BZL Electric
Overall dimensions		
A	Overall chassis length, depending on body, up to (mm)	11815
C	Frame height at rear structure (mm)	935
D	Transport wheelbase	3700
G	Front overhang (mm)	2500
H	Rear overhang (mm)	2355, (3190*)
S	Steering wheel position (mm)	1980
I	Track, front (mm)*	2107
K	Track, rear (mm)*	1885
L	Overall width front wheels or housing (mm)	2500*, (2550**)
N	Overall width rear wheels (mm)	2500*, (2550**)
O	Approach angle (°)	7
P	Departure angle (°)	7
	*) Overall height, approach and departure angles with tyres:	275/70 R22.5
	**) Optional: Overall width 2550 (mm) with tyres:	295/80 R22.5
	With back door: rear overhang 3190 (mm), EPT 802 & tyres:	275/70 R22.5

VOLVO BZL ELECTRIC

Model	BZL Electric
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Weights	
Permitted front axle load (kg)	8000
Permitted drive axle load (kg)	12000
Permitted GVW (kg)	19500

Electrical 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)	19000
EPT 802 (2 motors)	
Output, max (kW)	R85 max 400
Continuous power (kW)	R85 30 min 334
Max torque (Nm)	850
Max wheel torque (Nm)	31000

ESS (Energy Storage System)	
Available storage energy (battery capacity)	94 kWh
Available storage energy (3-5 batteries)	282, 376, 470 kWh
Battery chemistry type	Lithium-ion, NCA
Voltage	600 V
Mass per battery (kg)	609 kg

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

Tires and rims (steel and aluminium rims available)	
Tires	275/70 R22.5
Tires (optional)	295/80 R22.5
Rims	7.5 x 22.5

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

VOLVO BZL ELECTRIC

Charging system

CCS

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

OppCharge

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

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
- 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)
- Optional high-voltage heaters come pre-assembled on chassis (0–24 kW)

Air and brake system

- Disc brakes
- Electronic Braking System (EBS 5)
- Electronic Stability Program (ESP)
- Anti-lock Braking System (ABS)
- Anti slip regulation (ASR)
- Electronic Stability Control
- Brake blending
- Hill Start Aid
- Brake temperature warning
- Brake assistance
- Brake pad wear indication
- Pneumatic system, easily accessible for external fill

Driver's 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

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 System
- Lane Change Support
- Lane Keeping Support
- Safety Zones