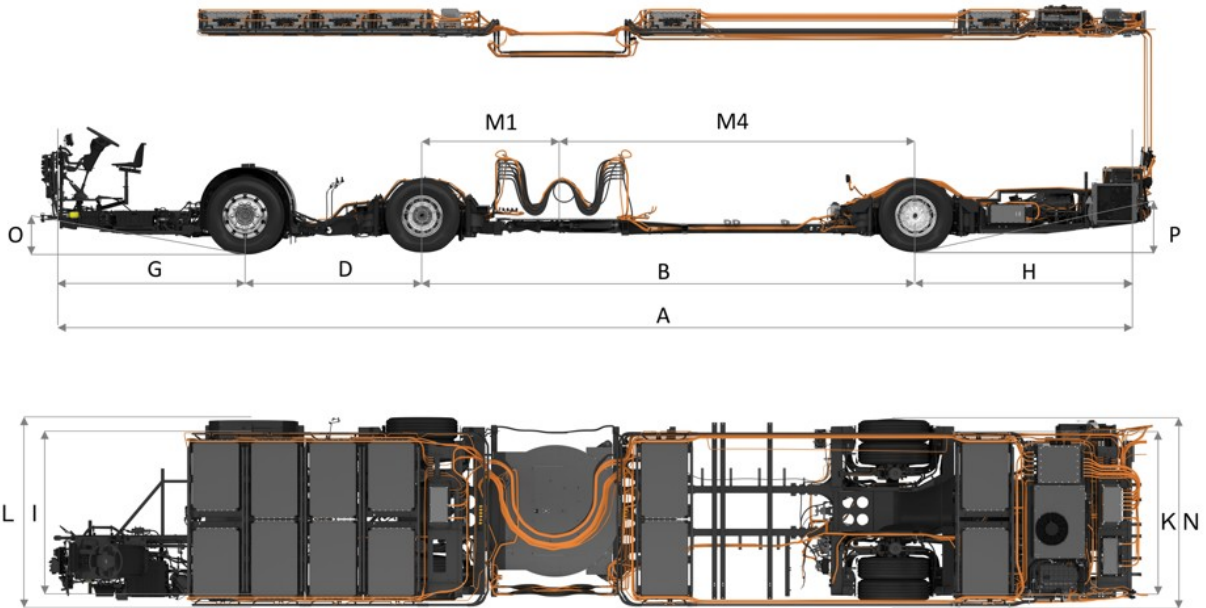


VOLVO BZL ELECTRIC ARTICULATED



Model	BZL Electric Articulated
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Overall dimensions		
A	Overall chassis length, depending on body, up to (mm) (with towing eye)	14,678 (14,728)
D	Transport wheelbase (mm)	2,360
B	Distance between middle axle and drive axle (mm)	6,582
M1	Distance between the middle axle and the centre of the turntable (mm)	1,860
M4	Distance between the centre of the turntable centre and drive axle (mm)	4,722
G	Front overhang (mm) (with towing eye)	2,500 (2,550)
H	Rear overhang (mm)	3,236
I	Track, front (mm)*Steel rims (aluminium rims)	2,088 (2,107)
K	Track, rear (mm) Steel rims (aluminium rims)	1,885 (1,907)
L	Overall width front wheels or housing (mm)	2,510
N	Overall width rear wheels (mm)	2,495
O	Approach angle (°)	6.8
P	Departure angle (°)	7.0
	Overall height, approach and departure angles with tyres:	275/70 R22.5

Weights	
Permitted front axle load (kg)	8,000
Permitted trailer (drive) axle load (kg)	12,000

VOLVO BZL ELECTRIC ARTICULATED

Model	BZL Electric Articulated
Permitted middle axle load (kg)	10,000
Permitted GVW (kg)	30,000

Electrical motor	
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)	31,000

Transmission and axles	
Gearbox	Volvo 2-speed Automated Manual Transmission
Front axle	Volvo RFS-L
Trailer (drive) 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
Rims	7.5 x 22.5 (8.25 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

ESS (Energy Storage System)		
Specification per battery pack	B01	B02
Battery chemistry type	Lithium-iron phosphate, LFP	
Energy (kWh)	44	39
Available storage energy 3 strings (12 batteries) (KWh)	500, 530	
C-rating (max. charge / discharge rate)	0.9	
Dimensions (length x depth x height) (mm)	1060 x 635 x 247	960 x 635 x 247
Voltage (V)	600	
Approximate weight (kg)	263	234.5

VOLVO BZL ELECTRIC ARTICULATED

Charging system

CCS

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

OppCharge

- Industry standard solution
- Maximum charge power 450 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

- 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'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
- Cruise Control
- 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