



Specification

VOLVO BZL ELECTRIC BUS

Chassis

Configuration	BZL 4x2, Low floor, LHD
Front axle	Volvo RFS
Rear axle	ZF AV133
Wheels	295/80 R22.5"
Number of doors	2 doors
Driveline motor	Single Volvo electric motor Max. torque 425 Nm Output power 200 kW Wheel torque 19,000 Nm Hill Start max. incline 14%
Number of batteries	4 or 5 subject to charging strategy
Energy storage systems	Volvo Gen 3
Battery location	Roof
Charging options	CCS2 (and/or OppCharge)
Charging location	Rear right and left (Pantographic rails in case of OppCharge)
Brakes	Disc brakes Volvo's 5th generation of electronically controlled brakes EBS-5 Anti-block brakes Electronic Stability Control Hill Start Aid Electric braking with energy recovery makes up for a substantial share of the total braking force

Advanced Driver Assistance Systems

Description	Volvo Active Safety System
Front Short Range Assist	Updated front radar and camera Detection of potential risks in front of the bus (radar detection and camera confirmation) Information and warning in Head up Alert
Side Collision Avoidance Support	New side radars on both sides Detection of Vulnerable Road users on both Driver and Passenger side Coverage: 4.25 m wide; 7m forwards and 30 m backwards (measured from the front of the bus)
Lane Change Support (LCS)	Combined feature with BSIS Supports driver during lane change maneuvers Detection of vehicles on both driver and passenger side
Driver Alert Support (DAS)	Two warning levels: Minor and major warnings
Tire Pressure Monitoring System	Three components (ECU, Receiver and Sensor); sensor positioned inside wheelrim; warning in cluster
New digital driver cluster	Fresh new look with digital displays, widgets, halo lights for warnings, steering wheel buttons, longer steering columns

Batteries

Design	Designed and made for Volvo
Total energy	376 kWh (4 batteries configuration) 470 kWh (5 batteries configuration)
Casing	Temperature controlled, impact protected steel casing
Location	Batteries and the cooling system are mounted on roof

Bus body

Bus body	Gemilang Body (Malaysia); EcoRange aluminum body designed with aluminum alloy extrusions. Cold bolted joints for flexibility and strength. Coated and anti-rust treated Front and rear cowls: Fiberglass Bumpers: Steel reinforced fiberglass Flooring: Fire retardant plywood covered with anti-slip vinyl
Doors	2 doors; front and middle
Seats and passenger capacity	High backrest seats – 41 Total capacity: 76 passengers
Air conditioning	37 kW AC (including 5 kW driver front box)
Dimensions	Length: 12 m Width: 2.55 m Height (wo/w AC): 2.8 m/3.3 m
Driver seat	Adjustable pneumatic driver seat with 3-point seat belt
Wheelchair ramp	Equipped and wheelchair space within vehicle
Windows	Double glazed, dark tinted except front windscreen
Partition walls	Light tinted
Interior lighting	Lighting channels with LED lamp sets complete with polycarbonate diffusers on both sides. With night light illumination.
Exterior lamps	Top marker lamps (F&R), fog lamps, side signal lamps, third brake lamp, license plate lamp, reflector, side marker lamps, engine compartment lamps
Other accessories	USB sockets for all rows and pram areas; first aid kit, stop request buttons