



Single Deck Electric Matrix

Chassis		Body	
Item	Technical Specifications	Item	Technical Specifications
Chassis model	BZL	Outline specifications	Length - 9715mm x Height - 3200mm x Width - 2500 mm
Electrical motor	EPT 402 (1 motor) Output, max (kW) : 185 max 200 Max torque (Nm) : 425 Maximum wheel torque: 19000		Two Door Body Configuration with Inward Glider and Sliding Plug Type Doors. Seating Capacity - 23 seated passengers - CRIB 7 compliance. Telescopic powered Ramp located at the centre exit door. Adjustable Driver's Seat with lumbar support. Electrically operated heating system configuration, Manual control for the Driver's Cab / Automatic control for passenger saloon. Cooling system for the driver's cab.
Transmission and axles	Gearbox : Volvo 2-speed Automated Manual Transmission Front axle : Volvo RFS-L Rear axle : ZF AV133		Front, side and rear White LED High resolution destination panels. Driver cab Fully sealed Forward and cab door Screen with intercom system. LED full-length Interior Lighting in the Passenger Saloon with Auto dimming function. USB Power Sockets fitted to seating area. Complete LED Exterior Lighting with day time running lights. Wireless Stop Request Buttons. Drivers cab area fitted with front and side manual operated Sunblind, drivers storage area, driver's footrest trimmed in matching flooring, driver's coat hook and retaining strap. Fire suppression system complying with Reg 107.
Energy storage system	Lithium-ion battery Automatic temperature controlling of batteries Available storage energy (capacity per battery) 94 kWh		Assault Alarm. Broadband Reverse Alarm. Reverse parking sensors. Induction Loop System for hearing impaired passengers. Camera Mirror System.
ESS (Energy Storage System)	Available storage energy (capacity per battery) 376 kWh		
Available storage energy (4 batteries)			
Battery chemistry type	Lithium-ion, NCA		
Energy density (Wh/kg)	158 Wh/kg (incl. brackets)		
Voltage	600 V		
Charging system			
CCS2 DC	Industry standard solution Maximum charge power 150 kW Rear right or rear left charging		
OppCharge (optional)	Industry standard solution Maximum charge power 300 kW		
Tyres and rims	Steel and aluminium rims available		
Air and brake system	Volvo disc brakes Electronic Braking System (EBS 5) Anti-lock Braking System (ABS) Acceleration Slip Regulation (ASR) Brake Blending Brake temperature warning Poor brake performance warning Door brake Kneel Brake Emergency Brake Assistant Lining wear sensing and analysis Automatic calibration after brake pad change Volvo Electronic Stability Program (ESP)	Safety Features	System is an aid to the driver to keep within the speed limit. Intelligent Speed Assistance (ISA) Runaway bus Prevention (RbP) The Safe Assist Module (SAM) consists of Impact protection System will automatically stop the bus from moving from a stationary position in the event that a driver has left the driving seat without applying the park brake. Acoustic Vehicle Alerting System (AVAS) Vehicle Multi-Messaging System (VMMS) Fire Suppression Messaging System Enhanced design with minimum bus front end geometry. Front-end crash frame protection for driver's cab area Top mounted wipers Corner lights Improved driver's visibility
		Sustainability	Highlights Low Volatile Organic Components (VOC) paint system. Composite honeycomb flooring - Alucore. Lightweight interior panelling. Increased usage of recyclable materials.

SAMPLE GENERAL LAYOUT

