



MCV D113 UK EV SPECS			
Chassis Specifications		Body Specifications	
Model	BZL Electric	Outline specifications	Length - 10900 & 10300mm x Height - 4400 & 4200mm x Width - 2550mm
Electrical motor	EPT 402 (l motor) Output, max (kW) : 185 max 200 Max torque (Nm) : 425 Maximum wheel torque: 19000		One or Two Door Body configurations with Inward Cilder and Sliding Plug Type Doors.
Transmission and axles	Gearbox : Volvo 2-speed Automated Manual Transmission Front axle : Volvo RFS-L Rear axle : ZF AV133		Seating Capacity - up to 62 seated passengers, total capacity up to 85 passengers
Energy storage system	Lithium-ion battery Automatic temperature controlling of batteries		Manual book leaf ramp and an optional Telescopic powered Ramp.
ESS (Energy Storage System) Available storage energy (capacity per battery)	94 kWh		Adjustable Driver's Seat with lumbar support.
Available storage energy (5-4 batteries)	470, 376 kWh		Konvekt CO2 heat pump, Manual control for the Drivers Cab / Automatic control for passenger saloon.
Battery chemistry type	Lithium-ion, NCA		Cooling system for the driver's cab and air chilling for upper saloon
Energy density (Wh/kg)	159 Wh/kg (incl. brackets)		Front, side and rear White LED destination panels. Option for high-resolution or coloured destination panels
Voltage	600 V		Driver cab Fully sealed or drop down Forward and cab door Screen with an option an Intercom system.
CCS2 DC	Industry standard solution Maximum charge power 150 kW Rear right or rear left charging		LED full-length Interior Lighting in the Passenger Saloon with Auto dimming function.
Tyres and rims	Steel and aluminium rims available		USB Power Sockets fitted to seating area.
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 Door brake Door Brake Emergency Brake Assistant Lining wear sensing and analysis Automatic calibration after brake pad change Volvo Electronic Stability Program (ESP) Pneumatic system, easily filled from external circuit		Complete LED Exterior Lighting with day running lights.
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 preassembled on chassis (24-0 kW)		Wireless Stop Request Buttons.
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		Drivers cab area fitted with front and side manual operated Sunblind's, drivers storage area, driver's footrest trimmed in matching flooring, driver's coat hook and retaining strap.
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		Fire suppression system complying with Reg 107. Assault Alarm. Broadband Reverse Alarm. Reverse parking sensors. Induction Loop System for hearing impaired passengers. Camera Mirror System.
		Safety Features	
		Intelligent Speed Assistance (ISA)	System is an aid to the driver to keep within the speed limit.
		Runaway bus Prevention (RbP)	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.
		The Safe Assist Module (SAM) consists of	Acoustic Vehicle Alerting System (AVAS) Vehicle Multi-Messaging System (VMMS) Fire Suppression Messaging System
		Impact protection	Enhanced design with minimum bus front end geometry. Front-end crash frame protection for driver's cab area Corner lights Improved driver's visibility Top mounted wipers
		Sustainability	
		Highlights	Low Volatile Organic Components (VOC) paint system. Composite honeycomb flooring - Alucore. Lightweight interior panelling. Increased usage of recyclable materials.

