

V O L V O

Volvo BZL DD Electric – MCV



Volvo Buses

MADE FOR YOUR ZERO CITY

Clean and quiet public transport

Towards zero with Volvo

We help cities in their transformation towards zero cities. With Volvo BZL Double Decker Electric, you can offer attractive public transport that complies with the toughest restrictions on emissions and noise, while at the same time helping to reduce congestion at scale.

Tried and trusted e-mobility technology

Volvo was the first to deliver hybrids and electric buses for commercial operation. As part of the Volvo Group, we have accumulated considerable expertise. Our solutions have been proven in daily traffic for millions and millions of kilometres, top ranked in uptime. Tried, tested and trusted – that's e-mobility the Volvo way.



Length

12.0 m (6x2)

Passenger capacity

**Up to 120
passengers**

Power output

400 kW

Battery capacity

Up to 500 kWh



Driver experience

Built around the driver

Plenty of smooth operating power and first-class ergonomics, with everything needed within reach. The Volvo BZL Double Decker Electric – MCV helps drivers perform at their best.

Handling and drivability

The double-decker is simply great to drive, with outstanding take-off and hill-climbing performance. A well-balanced mechanical system ensures that the 400 kW powertrain puts the power to the ground while providing excellent ride comfort and predictive behaviour to support the driver in any road condition. Features like Hill Start Aid, Brake Assist, and Electronic Stability Control are there to support the driver.

A perfect workplace

The comfortable driver's environment is probably one of the best available, with world-class ergonomic design

and logical layout. The adjustable dashboard features easy-to-read instruments and controls located logically, helping the driver stay focused and alert.

Dynamic instrument cluster

The digital instrument cluster shows what the driver needs to know. No less – no more. Redundant information is minimised to reduce driver distraction so that the driver can focus on the traffic and drive more safely. The different display views give possibilities to adapt to the requirements of the actual route.



Passenger experience

First-class passenger comfort and convenience

Comfort, convenience, and efficiency are essential to making a public transport system attractive in cities. The Volvo BZL Double Decker Electric – MCV is designed to deliver on these requirements at the highest level.

Quieter for everyone

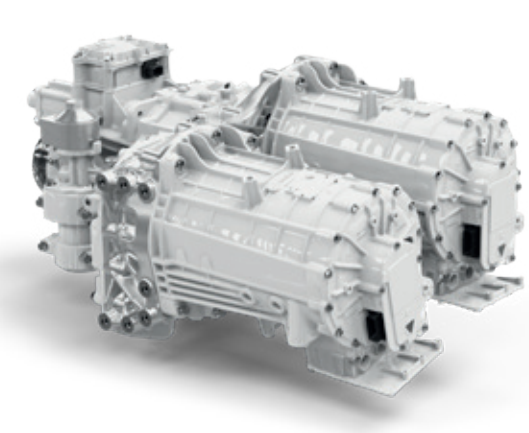
Operation is very quiet – meaning that passengers can enjoy a comfortable ride, free from noise and disturbing vibrations. The reduced noise and vibration levels also improve the quality of life for people living and working near the bus routes.

Smooth and efficient stops

The low and convenient entry, fast-opening doors, and the efficient interior layout make boarding and alighting smooth and safe. Time saved at every stop adds up to improved efficiency and smoother operation of your public transport system.

The perfect match

The Volvo BZL Double Decker Electric – MCV offers sufficient energy capacity, strong power output and excellent drivability for demanding conditions. Batteries and powertrain are optimised for efficient, on-time operation, even on hilly routes.



Power your operation

Enjoy an all-Volvo powertrain with dual motors, an optimised 2-speed gearbox, and a power output of 400 kW. It allows for swift and smooth operation even with a full passenger load on hilly routes. And features like Hill Start Aid make starts and stops convenient.

Energy for your routes

No need to worry about range. LFP batteries with 500 kWh, high usable energy capacity, and fast CCS charging make for efficient and convenient operation with short stops. Charging inlet on the rear left-hand side, or the optional rear right-hand side. Through Volvo’s Usable Energy Commitment, a guaranteed energy capacity will be available throughout the contract period.



In control with Volvo Connect

With Volvo Connect you can save energy, increase efficiency, secure uptime, boost safety and grow profitability. Volvo Connect is your fleet management system and entrance to the world of services from Volvo Buses.

Fleet overview	Protect your uptime	Zone management	Better driving
Events	Vehicle Status	Safety Zones	Driving Profile
Reports	Workshop History	Coaching Zones	I-Coaching
Position	Service Calendar	Environmental Zones	
	Parts Store		

Make sure it’s Volvo inside

Volvo is a world-leading company in heavy commercial vehicles. All chassis and powertrain components are developed, designed and manufactured by Volvo, ensuring full responsibility for function and quality.

Dimensions and weights	
Model	6×2
Length	12.0 m
Width	2.55 m
Height	4.4 m
Permitted GVW	24,000 kg

Driveline	
Electric motor, Volvo EPT802, output max (kW)	R85 max 2×200 R85 30 min 2×167
Max torque	2×425 Nm
Max wheel torque	31,000 Nm
Gearbox	Volvo 2-speed automated manual transmission

Charging*	
CCS max charge power	Up to 250 kW
Charging position	Rear left side. Extra position on right hand side. Note: Can only use one charging inlet during charging.

* Max charge power depending on configuration of the energy storage system.

Energy storage system	
Capacity	Up to 500 kWh
Traction battery	Lithium iron phosphate, LFP

Passenger capacity	
No. of passengers, max	118
No. of seats, max	82 (55 seats in upper saloon, 27 seats in lower saloon, whereof two wheelchair areas)
Passenger seats	Vogel, Arondo Combi (480 mm and/or 440 mm)

Climate system	
Back-end unit	Denso Electric Double Decker compact unit with 2-cycle system (non reheat)
Back-end unit features	• Climatic temperature control system • Ventilation with fresh air top up system • High-voltage electric compressor ES80 • Brushless blower motor • Chiller integration for battery thermal management system

Axles, suspension and steering	
Front axle	Volvo RFS-L
Rear axle	ZF AV133
Tag axle	Fixed
Suspension	Air bellows, front and rear
Power steering	Electric driven hydraulic steering
Tyres	305/70 R22.5
Rims	8.25"×22.5" Steel or aluminium rims

Brakes
Volvo disc brakes. Electronic Braking System (EBS5). Anti-lock Braking System (ABS). Anti Slip Regulation (ASR). Brake blending. Electronic Stability Control (ESC). Brake Assist. Hill Start Aid.

Driver’s environment
• Dashboard moving with the steering column • Steering wheel buttons for easy access • 12.3" display • Rear view camera with 7" monitor • Eight parking sensors

Safety features
• Collision Warning with City Brake • Forward Collision Warning • Intelligent Speed Assist • Side Collision Avoidance Support • Front Short Range Assist • Lane Change Support • Lane Keeping Support • Driver Alert Support • Tire Pressure Monitoring System

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Equipment that is shown or mentioned in the folder may be optional or available as an accessory and may vary from one country to another. We retain the right to alter product specifications without prior notification.