8.8m Azure battery e-bus

Technical specification

Chariot Motors
Chariot e-bus for better future

Chariot Motors battery e-buses are sustainable, silent, and green EV

The Chariot Motors Company helps the transition to green public transportation by offering fully electric, zero-emission, non-polluting e-buses. Our electric vehicles provide the transport operators with independence and emissions-free transportation by reducing harmful gases every day.

Our mission is to:

- **encourage a better future for us all;**
- **help make the environment clean and green;**
- **offer reliable and zero-emission electric buses;**
- **offer high energy efficiency and quality.**

Chariot Motors battery e-buses offer independent emissions-free travel on the road. Our full product range offers **6.8m, 8.5m, 8.8m, 12m, and 18m lengths** of city and intercity electric buses. Chariot battery electric buses will cut transport operators costs by 80 percent per kilometre compared to diesel traction. Maintenance is 30 percent more economical than diesels due to the lack of reciprocating engines and transmission.

Battery e-buses use the latest battery technology for energy storage, manufactured by the world leader CATL. Charging time is about four hours during the night and is sufficient for over 200km smooth and comfortable travel depending on the weather conditions (if heating or if there are traffic jams, air conditioning is turned on). Cosiness of the vehicles is achieved by different fully electrically driven units communicating via standard CAN line.
These buses are equipped with the most revolutionary powertrain systems produced by the original equipment manufacturers (OEM). Their unique features are the incomparable optimization of energy efficiency and dynamic smoothness of speed. All the systems integrated in these vehicles are manufactured by the worldwide leading companies with long experience in the bus production industry.

Chariot battery e-buses advantages are:

Long range and minimal infrastructure: E-buses are interoperable across routes without charging infrastructure, they can cover ranges of 200km after two hours night charging. There is no need for daytime charging or public chargers.

High energy-efficiency: E-buses convert a higher percentage of stored energy from the battery to power the wheels, resulting in reduced energy waste. Regenerative braking systems also allow electric buses to recover and store energy that would be lost as heat during braking.

Lower operating costs: Our e-buses have low operating costs over their lifespan. They have fewer moving parts, resulting in reduced maintenance and repair requirements compared to combustion engine buses. Additionally, electricity is cheaper than diesel or gasoline, leading to lower fuel costs for electric buses. Night recharging coincides with off-peak times and uses cheap electricity.

Long-term sustainability and environmental benefits: Battery electric buses reduce local air pollution and greenhouse gas emissions by producing zero tailpipe emissions. Chariot battery e-buses contribute to improved air quality, especially in urban areas, where pollution from vehicles is a major concern.

Be a part of the sustainable urban transportation future, together with us!

Our experts are here to help your transition to this future. We at the Chariot Motors Company have acquired deep experience in the electric bus market since our incorporation in 2009. We have supplied over 220 electric buses to many European and Israeli cities.

Contact us to help you with the transition to sustainability: info@chariot-electricbus.com

In January 2023 our e-buses covered more than 85 million kilometres worldwide of roadway.


Green your city with 8.8m Azure city e-bus.

100% electric, zero-emissions Azure city e-bus

Azure small city battery e-bus is designed to feed the main lines of the city transportation, it can navigate narrow streets without difficulty thanks to its compact size of 8.8m. Therefore, the development of a transportation network that can expand and access every point in the cities is possible.

100% electric, zero-emissions e-bus

With the future of the cities and transport operators in mind, Chariot Motors developed its electric buses. Our battery technology is the solution of urban transportation evolution with its highest safety levels, low energy consumption, and flexible charging options.

Comfort and technology

Have a quiet journey with the Chariot small city e-bus. It has a spacious interior, wide panoramic view, fabric or plastic passenger seats, and efficient electric powertrain. Feel the comfort after taking the step into the fully electric, exquisite e-vehicle.

More Comfort

The Chariot small city e-bus has an ergonomic cockpit with a wide-angle view. The interior and exterior of the e-vehicle are adapted to the urban conditions. It has a wide-windows area that offers a panoramic view of the city for the passengers. The powerful air conditioner and heater can handle any extreme climate fluctuations and makes the passenger feel comfortable during their traveling. The Chariot small city e-bus is very comfortable, silent and makes its drivers desire longer drive with its spacious and ergonomic cockpit. Its wide angle of view provides total control of the road. Set the level upon road conditions or kneel while passengers get on and off the bus with Electric Controlled Air Suspension (ECAS).

Charging process

The Chariot small city e-bus can be charged through the charging socket at the front right side with two types of AC and DC recharges battery for 2 hours at night.

Recuperation process

During its braking, the small city e-bus recuperates up to **25%** of its kinetic energy and charges its batteries again. This increases the e-bus range.

Safety

SAFETY

Chariot e-buses offer active and passive technologic systems which are protective for the passengers and e-bus driver.

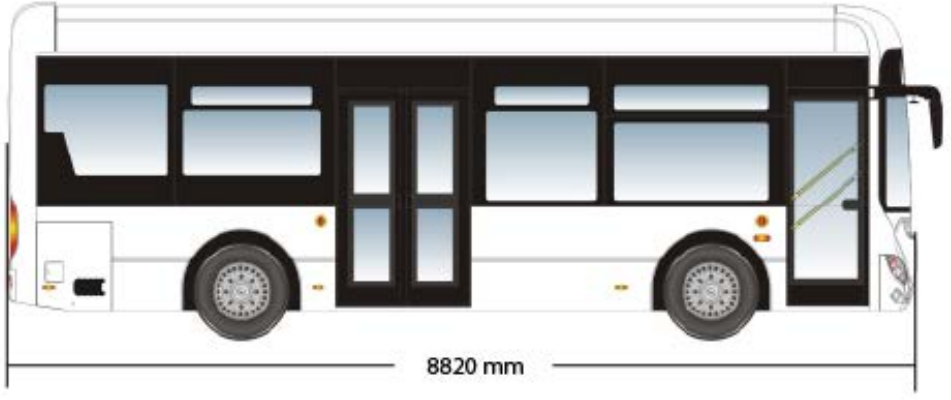
- **EBS** — *Electronic brake system*
- **FDS** — *E-motor room fire detection system*
- **FARB** — *Front anti roll bar*
- **ESP** — *Electric stability program*
- **RBS** — *Regenerative brake system*
- **ABS** — *Anti-lock braking system*
- **HSA** — *Hill strart aid*
- **ASR** — *Anti-slippage detection system*

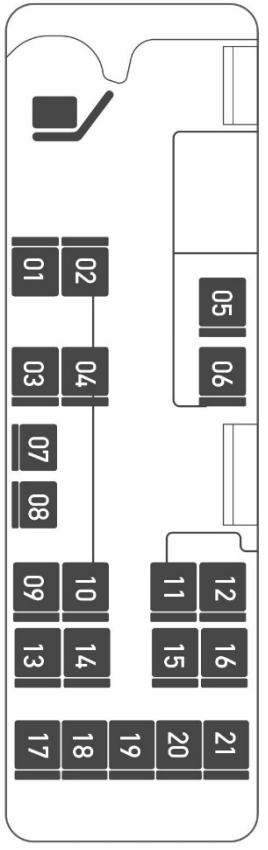
PASSENGER CAPACITY ALTERNATIVES

SEATED	MAX. STANDING	FOLDABLE	WEELCHAIR	MAX. TOTAL PASSENGERS*
19	38	2	1	60
20	38	1	1	60

* Passenger capacity depends on selected optional features & wheelchair area utilization. A wheelchair is valid only when foldable seats are not being used.

8.8 M AZURE E-BUS DIMENTIONS





8.8m Azure e-bus technical specifications

Driveline		
Electric motor	Standard -	Dana MD100F
Energy storage system	Standard -	CATL LFP battery
Electric control system	Standard -	Higer electric control system
Charging system	Standard -	"CCS-combo 2" type charging socket
Maximum Speed	-	70km/h
Bodywork		
Length × Width × Height (mm)	Standard -	8820×2440×3260
Passenger capacity seated	Standard -	19+2 (foldable)+1
Passenger capacity	Standard -	Max. 60
Door arrangement	Standard -	2-2; Single inswing front door / double sliding middle door
Driver seat	Standard -	ISRI
Driver cabin	Standard -	Separate the driver area from passenger compartment
Side windows	Standard -	Black privacy tint and UV protection
Rear-view Mirror	Standard -	Electric rear-view mirror
Wheelchair ramp	Standard -	Manual wheelchair ramp
Chassis		
Front axle	Standard -	Portable axle
Rear axle	Standard -	Low floor axle
Steering	Standard -	Steering Wheel Tilt and Telescopic, Bosch 8095 steering gear
Propeller shaft	Standard -	Maintenance-free
Brakes	Standard -	Wabco EBS, ABS and ASR
Auxiliary brake	Standard -	Electric energy recycle system
Suspension levelling system	Standard -	ECAS Ⅱ with kneeling function
Tires	Standard -	255/70R22.5
	Standard -	Alloy rim/ steel rim
Electrical system		
Air-conditioning	Standard -	Air-conditioning with electrical drive
Auxiliary heating system	Standard -	Electric defroster
Air-Conditioning	Standard -	NTCAC, TSD12
Driver dashboard	Standard -	Actia Podium 2
Monitor system	Standard -	Yes
Destinations signs	Standard -	LED destinations signs
Front lights	Standard -	LED
Rea/ side lamps	Standard -	LED
Brake light on the rear window	Standard -	Yes
Others	-	WIFI
	-	USB type C charger
	-	Actia radio, Gooseneck microphone

Chariot Motors

Find more information on: **www.chariot-electricbus.com**

Contact us via e-mail: **info@chariot-electricbus.com**