



18m UC Chariot e-bus

Technical specification.



Sustainable, silent, and green Ultracapacitor e-buses...

...these are the features of innovative Chariot 18m Ultracapacitor (UC) electric buses whose mission is to:

- help make a future better for us all
- help make cities clean and green
- offer reliable zero emission public transport
- offer high energy efficiency and quality

The Chariot Motors Company helps the transition to green public transportation by offering fully electric zero emission non-polluting e-buses. We are helping improve urban life and deliver better and sustainable future for us and our children.

Chariot UC e-buses mean clean, quiet, and greener cities. The future for urban transportation worldwide is electricity. Battery, hybrid, hydrogen, and ultracapacitor electric buses are the future of public transport.

Be part of this transition together with us!

UC e-buses by Chariot Motors don't need overnight charging. Cutting-edge technology enables e-buses to reuse braking energy using what is called recuperation, helping it reach previously unattainable ranges. Ultracapacitors overcome the limitations of electrochemical batteries by offering storage that is more reliable, longer-lived and lightweight. UCs advantages are: **longer lifespan; greater reliability, excellent performance retention over time; greater power output; faster charges; and greater brake energy regeneration.** These e-buses are also **better protected from fires.**

Our experts are here to help your transition to the future. We at the Chariot Motors Company have acquired deep experience in the electric bus market since incorporation in 2009. We have supplied over 150 electric bus-es to many European and Israeli cities.

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

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



100% Ultracapacitor, Zero emissions e-bus

Thinking about the future of the cities and transport operators Chariot Motors developed UC e-buses. This technology is the future of urban transportation with its highest safety levels and non-polluting electrolyte. E-buses operational cycle availability is 24/7, and recuperation levels are over 38%.

Remote Control System

E-buses have diagnostics, monitoring, and route tracking remote control system. It collects the data including: energy consumed and regenerated in different parts of each electric bus, current ultracapacitor voltage, and subsystems' power consumptions.

TECHNICAL SPECIFICATIONS 18M UC E-BUS

VEHICLE TYPE

Vehicle Category & Class	Fast charging, low floor, articulated Ultracapacitor metrobus, Higer
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POWERTRAIN SYSTEM

Engine	Electric motor, Dana TM4 (3700N·m)
Maximum Power (kW)	370
Maximum Torque (Nm)	3700

PERFORMANCE & ELECTRIC SYSTEM

Range	Safe 65 km range on a single charge for about 15 minutes. The vehicle can operate 24/7.
Energy storage system	108 KWh Aowei Ultracapacitor S120V11-K12
Electric control system	Higer electric control system
Electrical system	Actia podium 2, CAN bus system
Charging system	Fast charging CCS2 or/and pantograph (Aowei pantograph 650V, 200A). The bus fleet needs significantly fewer pantograph chargers compared to the number of fleet buses.

BODY

Body Type	Self-supporting Carbon Steel: Space Frame Steel Tube Structure; Optional: Stainless steel
Corrosion Resistance	Cataphoresis & galvanic anti-corrosion coating
Access ramp	Manual wheelchair ramps, or Electric wheelchair ramps
Door arrangement	4 double doors; optional: 5 double doors

SUSPENSION

Suspension levelling system	ECAS II with kneeling function
Front axle	ZF RL 82A
Middle axle	ZF AVN 132
Rear axle	ZF AV 133

BRAKE SYSTEM

Brakes	Disc brake, Wabco EBS, ABS and ASR
Auxiliary brake	Electric energy recycle system
Steering	Bosh 8098

CAPACITY

Gross Vehicle Weight (kg)	28600
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TECHNICAL SPECIFICATIONS 18M UC E-BUS

DIMENSIONS

Overall Length (mm)	18090
Overall Width (mm)	2550
Overall Height (mm)	3660
Front Overhang (mm)	2700
Rear Overhang (mm)	3490
Wheelbase between front and middle axle (mm)	5900
Wheelbase between middle and rear axle (mm)	6000

MANEUVERABILITY

Maximum external radius (mm)	12575
Maximum internal radius (mm)	5615

TIRES

Size designation(s) Tire	275/70R22.5 (all axles)
Manufacturer	Michelin/Giti

COMFORT

VENTILATION AND AIR-CONDITIONING

Air-conditioning	Separate climate control system for driver and passengers; Full Spheros one touch climate control system
Passenger compartment heating system	Valeo electric heater
Auxiliary heating system	Electric defroster
Electric defroster	Hongye PFJ-5C/600JL10

AUDIO & VIDEO SYSTEMS

Radio + USB Port + Bluetooth Connections	Standard
Announcement System for Passenger Area - 5 x Passenger Speakers +	Optional
Multimedia Touchscreen	Standard
Rear Camera	Standard
Wi-Fi Router	Optional

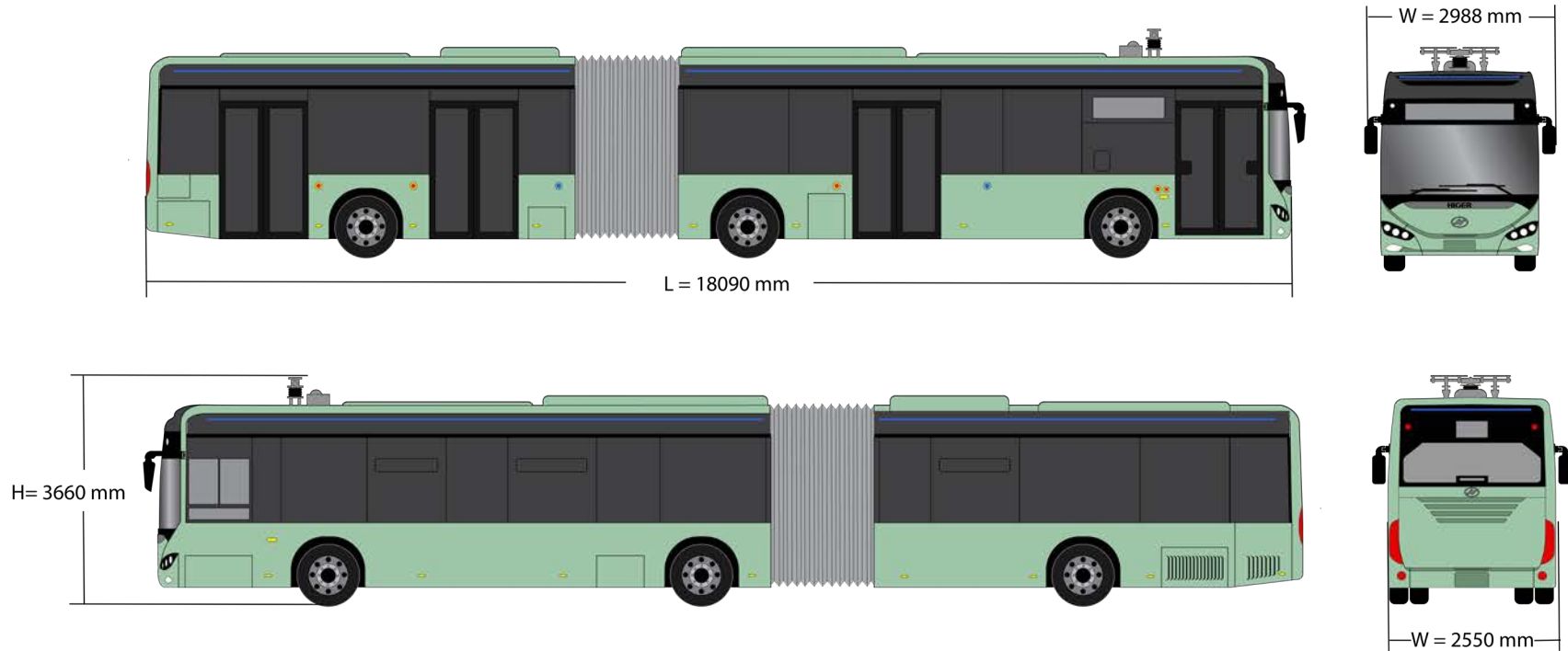
PASSENGER CAPACITY ALTERNATIVES



SEATED	MAX. STANDING	WHEELCHAIR	MAX. TOTAL PASSENGERS*
39	83	2	124
39	94	2	135
39	78	2	119
47	75	2	124
47	86	2	135
47	70	2	119

* Passenger capacity depends on selected optional features & wheelchair area utilization.

18M UC E-BUS DIMENSIONS





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

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

All images, tables, and specifications are Chariot Motors Company releases. Some features, applications, and services may vary.