



12m UC Chariot e-bus

Technical specification.



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

...these are the features of innovative Chariot 12m 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 12M UC E-BUS

VEHICLE TYPE	
Vehicle Category & Class	Fast charging, low floor Ultracapacitor electric bus, Higer
POWERTRAIN SYSTEM	
Engine	Electric motor, Siemens 1DB2016-2NB06
Maximum Power (kW)	230
Maximum Torque (Nm)	3000
PERFORMANCE & ELECTRIC SYSTEM	
Range	Up to 40km on a single charge
Energy storage system	40 – 72KWh Aowei Ultracapacitor
Electric control system	Higer electric control system
Electrical system	Actia, CAN bus system
Charging system	Aowei pantograph (650V, 200A) + EU standards gun charging
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 ramp, or Electric wheelchair ramp
Door arrangement	3 double doors; optional: 2 doble doors
SUSPENSION	
Suspension levelling system	ECAS II with kneeling function
Front axle	Steering axle, ZF
Rear axle	Rigid drive axle, ZF
BRAKE SYSTEM	
Brakes	Disc brake, Wabco EBS, ABS and ASR
Auxiliary brake	Electric energy recycle system
Steering	Bosh 8098
CAPACITY	
Gross Vehicle Weight (kg)	18600
TIRES	
Size designation(s) Tire	275/70R22.5 (all axles)
Manufacturer	Michelin/Giti

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DIMENSIONS	
Overall Length (mm)	12000
Overall Width (mm)	2550
Overall Height (mm)	3663
Width including exterior mirrors (mm)	2980
Front Overhang (mm)	2700
Rear Overhang (mm)	5900
Wheelbase (mm)	3400
MANEUVERABILITY	
Maximum external radius (mm)	12500
Maximum internal radius (mm)	6200
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	Heating pump; Spheros electric heater
Auxiliary heating system	Electric defroster
Electric defroster	Valeo transparent roof hatches, and Electrical dual-function fans
AUDIO & VIDEO SYSTEMS	
Radio + USB Port + Bluetooth Connections	Standard
Announcement System for Passenger Area - 5 x Passenger Speakers + Goose Neck Microphone + Amplifier	Optional
Multimedia Touchscreen	Standard
Rear Camera	Standard
Wi-Fi Router	Optional

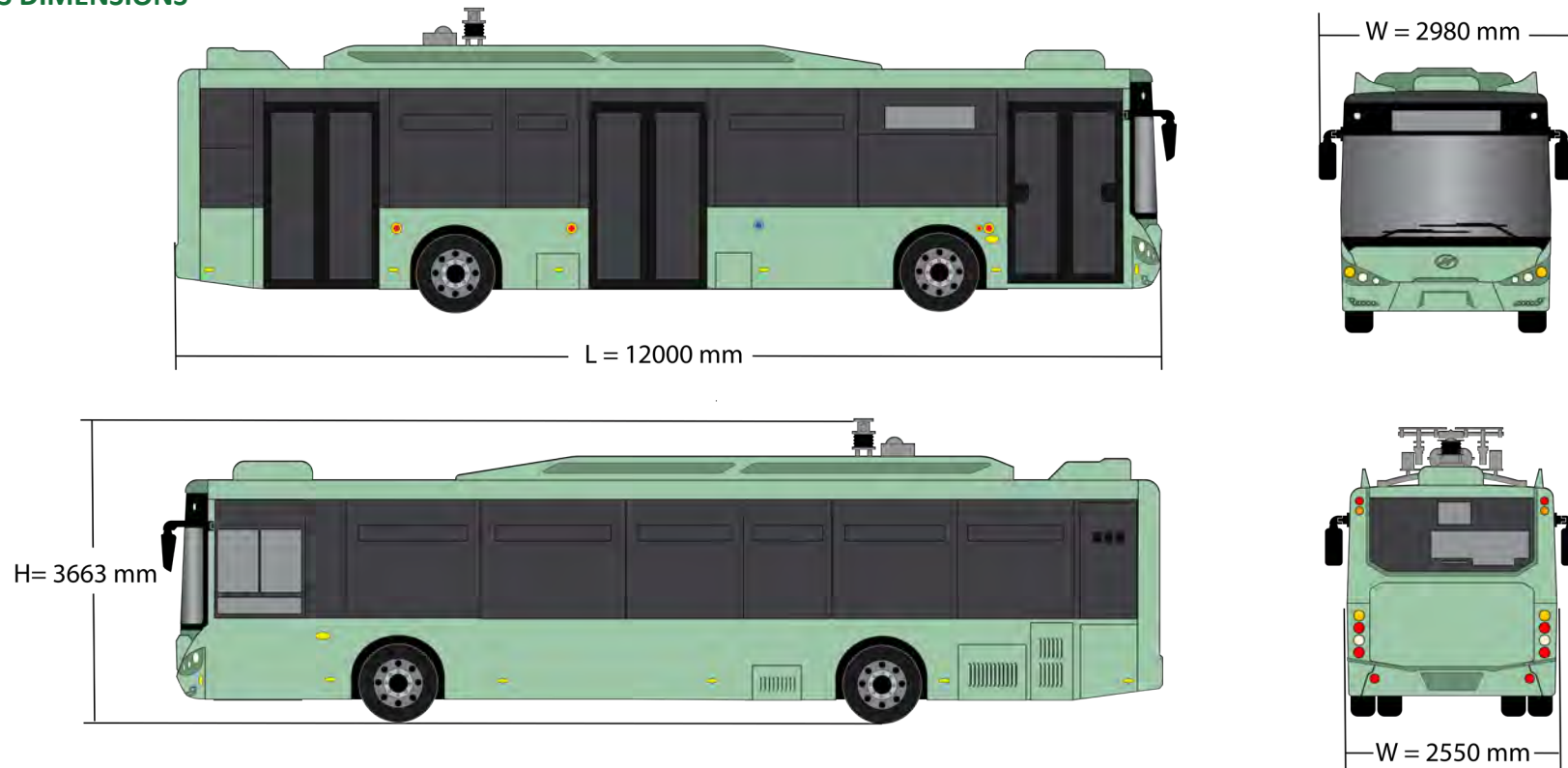
PASSENGER CAPACITY ALTERNATIVES



SEATED	MAX. STANDING	FOLDABLE	WHEELCHAIR	MAX. TOTAL PASSENGERS*
28	41	0	1	70
29	44	0	1	74
28	51	0	1	80
29	47	0	1	77
28	52	2	0	82
30	58	0	1	89

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

12M 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.