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E12 | FULL ELECTRIC BUS
NEW CHOICE OF URBAN TRANSPORT

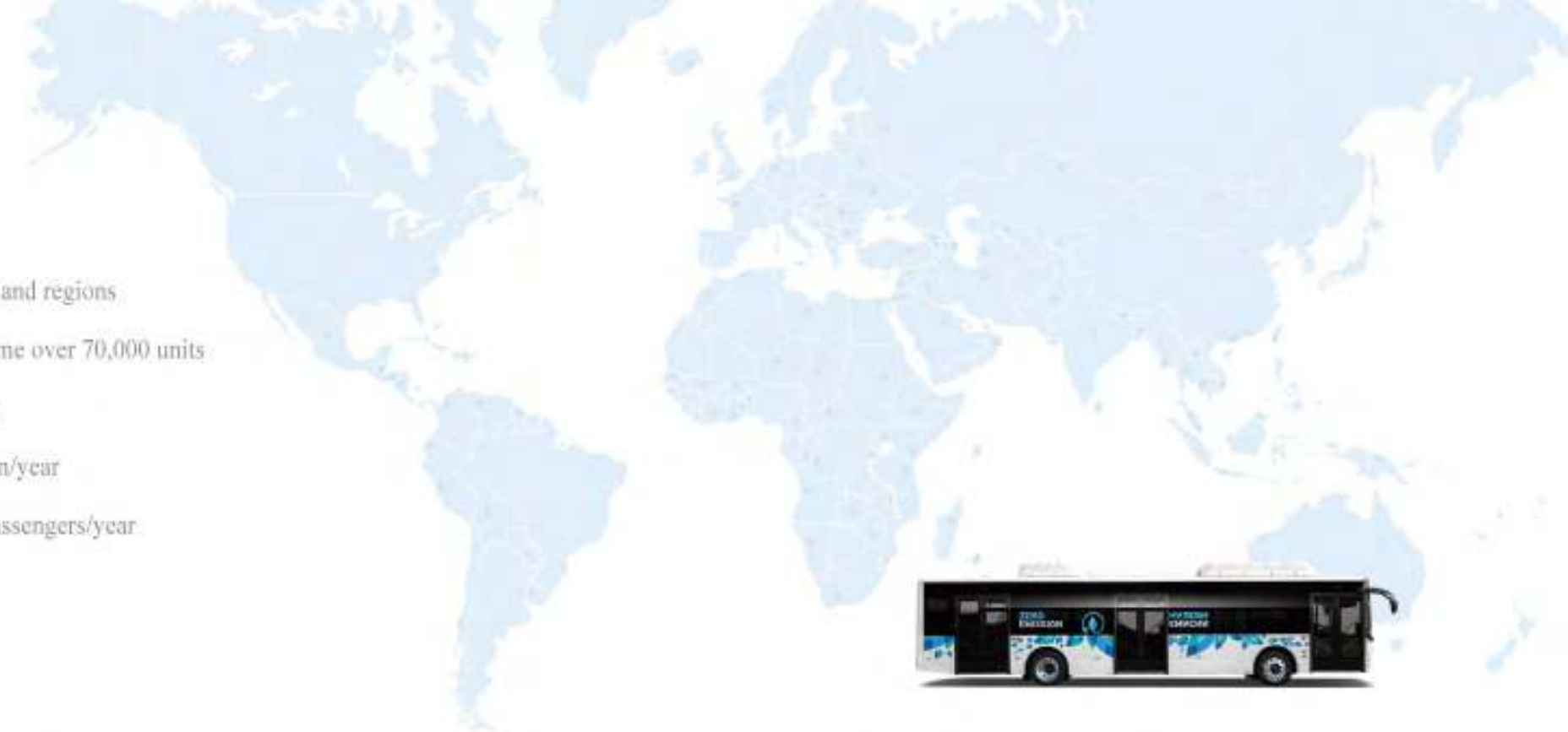


Over 30 countries and regions
 Annual sales volume over 70,000 units
 5-18m bus length
 43,000,000,000 km/year
 52,000,000,000 passengers/year

YUTONG

Your better choice

As a leading bus manufacturer, Yutong buses are everywhere where transport companies demand the best! Since 1963, Yutong has been manufacturing buses and coaches that travel many roads on the planet. Realizing a sizable sales volume in over 30 countries and regions, Yutong buses are recognized by every transport professional who looks for not only exceptional quality but also before- and after-sales services, and are capable of meeting all of their requirements.



Yutong quality

Judge for yourself after the first million kilometers!

As a professional in the business of transporting people, you know better than anyone that the quality of a coach or a bus can only be truly assessed after undergoing the test of the road and time. Based on this intangible principle, we conceive and build carefully designed vehicles with the best in equipment and facilities, which meet your actual needs and are capable of improving the long-term profitability of your business.



Taking you to full electric era

Inheriting the consistent advantages of Yutong buses like superior quality, excellent safety and good ride comfort, Yutong E12 full electric bus is further optimized by Yutong engineers based on the features of electric vehicles. Therefore, the E12 full electric bus boasts better appearance, workmanship and energy efficiency, as well as longer driving range, providing you with enjoyable driving and riding experience.

As the leader of new energy buses, Yutong provides customers with not only full electric bus products with proprietary core technology, but also the most suitable transit solutions of full electric buses meeting the needs of different customers, enabling you enter the full electric era with ease.



Simple and elegant appearance with practical aesthetics

- Low floor, step height 330mm, ECAS height adjustment (adjustment scope: 60mm)
- Left short and right long rearview mirrors feature good vision amid turning, and the added close-proximity exterior rearview mirror offers better visual field.
- Detachable front wall allows easy repair and maintenance of headlights, defrosters, wipers and so on.
- The middle door is equipped with an electric retractable step. The vehicle is unable to run when the step extends out.





Optimized interior design featuring comfortable journey

- The NEW CITY passenger seat that adapts to the figures of European passengers offers you good ride comfort.
- The roof hatch with in-built ventilator brings fresh air inside the vehicle, bringing you a pleasant feeling.
- STOP buttons rationally arranged on the vehicle are convenient for passengers to use and are very user-friendly.
- The vehicle is provided with two USB ports on the side of the wheelchair area, giving an easy access for passengers to charge their gadgets.
- STOP buttons for physically challenged passengers and stroller users are available in the wheelchair area to give corresponding hints to the driver.





Flexible and convenient manipulation

- Enclosed cockpit free of interference and aisle especially for driver.
- Follow-up dashboard with LCD screen not only creates a catching appearance, but also provides an easy access for drivers.
- Driver seat: shock absorber leather driver seat with heating function can relieve driving fatigue and improve driver's driving experience.
- Intelligent collision pre-warning system can avoid the risk of potential traffic accidents.



Fast charging and sufficient driving range

- Low power consumption: lightweight design, high-performance drive motor and high-efficiency control strategy.
- High energy density: 202Ah drive batteries; large electric capacity: 374kWh (12 packs).
- Charging socket with European standard, optional charging socket with China national standard.
- Approach switch and indicator light are equipped in the compartment. The indicator light will be on when the compartment door is opened to facilitate the charging operation.



In the sole National Engineering Technology Research Center for Electric Bus Control and Safety in China, Yutong has systematically summarized the technical safety requirements of new energy buses in various operating environments, and proposed "3S Safety Technologies", which is the latest safety technology of Yutong new energy buses.

- The protection level of battery, drive motor and electric control system reaches IP68, and the vehicle can operate normally even on waterlogged roads in the rainy season.
- Anti-collision beams are available in the battery compartment to protect the batteries and prevent the batteries from being damaged amid a collision.
- Brake system: WABCO EBS/ESC with anti-skid function can effectively control the slippage of vehicles and the startup on slippery or snowy road surface, and boasts good acceleration performance. In addition, the body stability system is available to avoid the overturning of the vehicle, thus ensuring the safety.

- Five-in-one controller: DCDC, air compressor controller, power steering controller, high voltage power distribution box and motor controller are integrated together, featuring the highest integration degree in the industry, least low voltage connection points, low failure rate and reduced repair costs.

FULL ELECTRIC

Control your vehicles in far distance

Yutong has developed the telematics system (Vehicle+), which has remote monitoring function and can monitor the status of vehicle operation in real time, allowing you to acquire a variety of vehicle data without leaving office and providing strong support for the management of your fleet.



OTA (Over-the-air)
Update the software of the vehicle over-the-air to reduce the waiting time, and add new functions to the vehicle, such as FCW, LDW, etc. (Featuring strong scalability, Yutong telematics is compatible with most of hardware.)



Remote diagnosis
With intelligent analysis of vehicles' real-time operating data as well as comprehensive analysis of big data trends, it can not only detect vehicles' fault information remotely, but also evaluate the life stages of critical parts and expected failure time in order to promptly inform service people to prepare accordingly.



Management of driving behaviors
Based on the automatic identification of key driver operations, the telematics system can monitor the driver's driving behaviors, accurately identify the bad driving behavior and alert them so that to regulate the driver's driving behavior. You can set illegal operations at your wish, and illegal operations can be detected under the actual data.



Remote monitoring
The real-time monitor of vehicle operation data allows you to acquire various data of vehicles such as real-time location, operating status, driver's driving behavior, batteries, drive motor, electronic control units and so on without leaving office. Through a cell phone or a PC, you can have the access to such information.



Charging management

- Through the analysis of the real-time location and SOC of each vehicle in the fleet and comprehensive consideration of the operational needs of the fleet, the charging scheme can be planned rationally, thus improving the charging efficiency.
- During the charging process, remote control and adjustment of chargers can be achieved.

- Collect charging data in real time and generate statistical reports to provide support for charging management.
- Achieve charging with valley electricity via the charging scheduling system to reduce energy costs greatly.
- Make reservation, and set the turn-on time and temperature of on-board air conditioner via an APP on cell phone.

* "Vehicle+" is an optional function of the vehicle. If you want to know more about it, just feel free to contact us.

YUTONG R&D.

Here begins global quality !

Always keeping pace with the technological development, Yutong never stops its steps in R&D area.
The application of multiple technologies helps improve your operating benefits and create greater value for you.



E12 | Full electric bus New choice of urban transport

Overall parameters

Length	12170mm
Width	2550mm
Height	3300mm
Wheelbase	6000mm
G.V.W.	18500kg
Service door	3

Battery

Electric capacity	374kWh
Type	Lithium-ion battery

Driving range

370km (ambient temp. 20°C, A/C off)
290km (ambient temp. 20°C, A/C on)



Charging time

60Kw charger (European standard)	7h
150Kw charger (European standard)	3.5h

Drive motor

Type	Permanent magnet synchronous motor
Rated power (kw)	215
Rated torque (Nm)	1200

Axle

Front axle	ZF RL82EC, independent suspension, disc brake
Rear axle	ZF AV133, disc brake

Steering

Electric control hydraulic power steering, BOSCH80/98 steering gear



Suspension

F2R4 air suspension, SACHS hydraulic double adjustable shock absorber, ECAS with lifting system, kneeling system

Tire

Alu wheel (Alcoa), tire 305/70R22.5

Brake

Dual circuit pneumatic service brake, front & rear disc brake, energy storage spring parking brake, air drier, imported condenser, alu air reservoir, ESC

Air conditioner (A/C)

Electric drive cooling & heating system for driver, roof-mounted electric A/C with cooling & heating function

Seats

Sitting	32
Wheelchair area	1