







YUTONG NEW HIGHEND BATTERY ELECTRIC BUS

#### Yutong Bus Co., Ltd.

Yutong Marketing Center, Economic and Technological Development Zone, Zhengzhou, China, Tel: +86 371 6671 8999 Website: www.yutong.com E-mail: sales@yutong.com Follow us on Facebook & Twitter & YouTube at Yutong Bus & Coach

The images may include items of optional equipment and accessories that are not installed as standard. The product is subject to technical improvement. Yutong reserves the right to change product specifications without prior notice. All rights reserved. March, 2022 Edition.



# **WHO WE ARE**

World's major bus and coach supplier No.1 bus brand in sales globally

- 2 manufacturing bases
- Total plant area > 3.59 million m²
- Max.daily production capacity> 445 units
- Max.daily production capacity of new energy buses > 375 units
- 5m-18m full product lineup,
   incl. city buses, coaches, commuters, school buses, special vehicles, etc.
- As of the end of 2021, Yutong has exported more than 80,000 buses and sold more than 160,000 new energy buses. Yutong large and medium-sized buses have been selling well in global markets for many consecutive years.

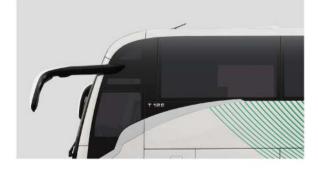
# **OUR MISSION**

Fantastic Travel to the Public Greater Value for Customers

2,800,000,000 liters
43,680 tons
over 7,500,000 tons
910 tons







Sleek lines

Aerodynamic design, smooth body styling, easy to control airflow, effectively reduce wind resistance.



Smile-face front design

Friendly and enthusiastic appearance appeals to whomever at the first sight.



Side wall aluminum skin structure

High corrosion resistance, light weight and fine skin smoothness.



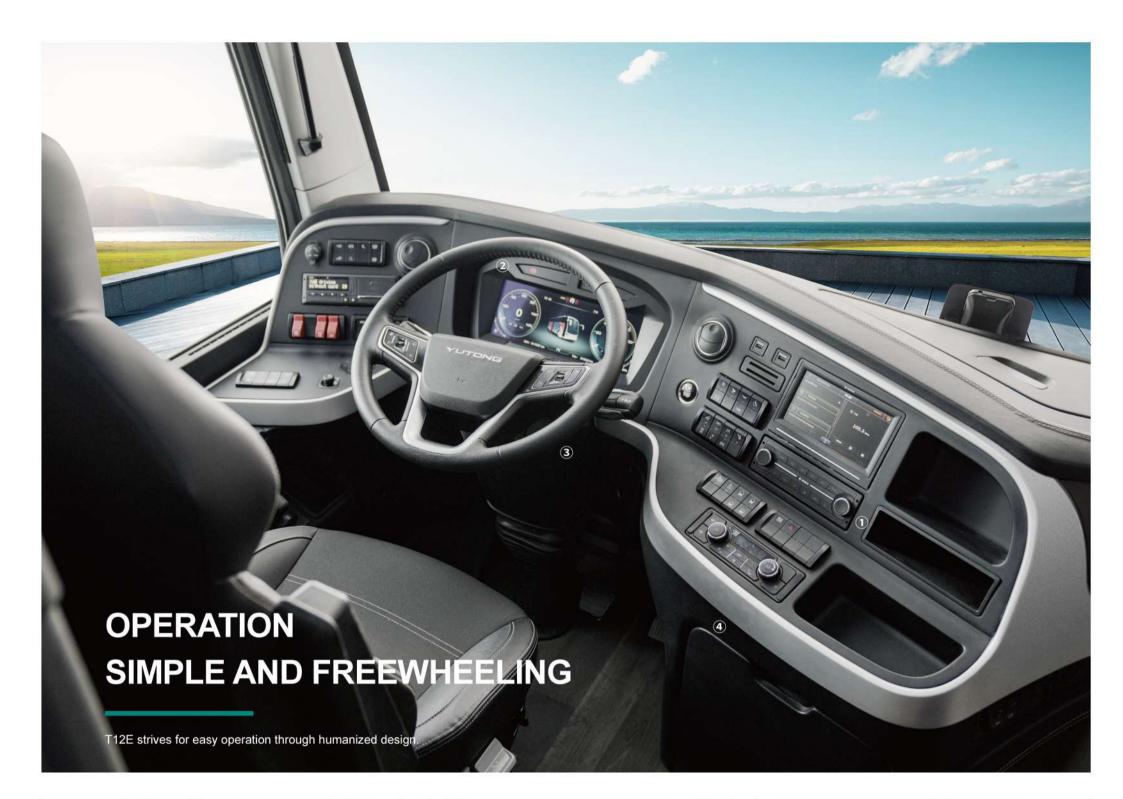
Combined rear taillights

Streamlined design, glamorizes the night.



Electric exterior rear-view mirror

The styling of rabbit's ear resemblance with heating and defrosting functions, integrates aesthetic design and practical value perfectly.



#### Air suspension driver's seat

Seat height, front and rear, backrest angle and cushion inclination angle, etc., are all designed adjustable, making driving more comfortable. Optional functions like eight-point air bag massage, seat ventilation, seat heating etc. are attainable, upgrading the comfort again.



#### Imported full LCD instrument

Automatic brightness adjustment, rich functions, full sense of science and technology.



#### Intelligent one-button control

Near-field sensing one-button start, intelligent wipers and lighting, comparable to the design of passenger cars, make driving more relaxing.

#### Ergonomic driving area

The scientific and spacious layout of the driver's area with broad vision makes every driving easy and pleasant.

1) The driver's area adopts the upgraded instrument panel design, making the key layout more intuitive;

2 12.3 inch digital instrument makes it easy to access driving information;

3 Spacious driver's area and pneumatic controlled steering column angle and telescopic adjustment, ensure handy wheel steering;

(4) Several storage boxes are integrated near the cab to meet the storage needs of personal belongings and travel documents;



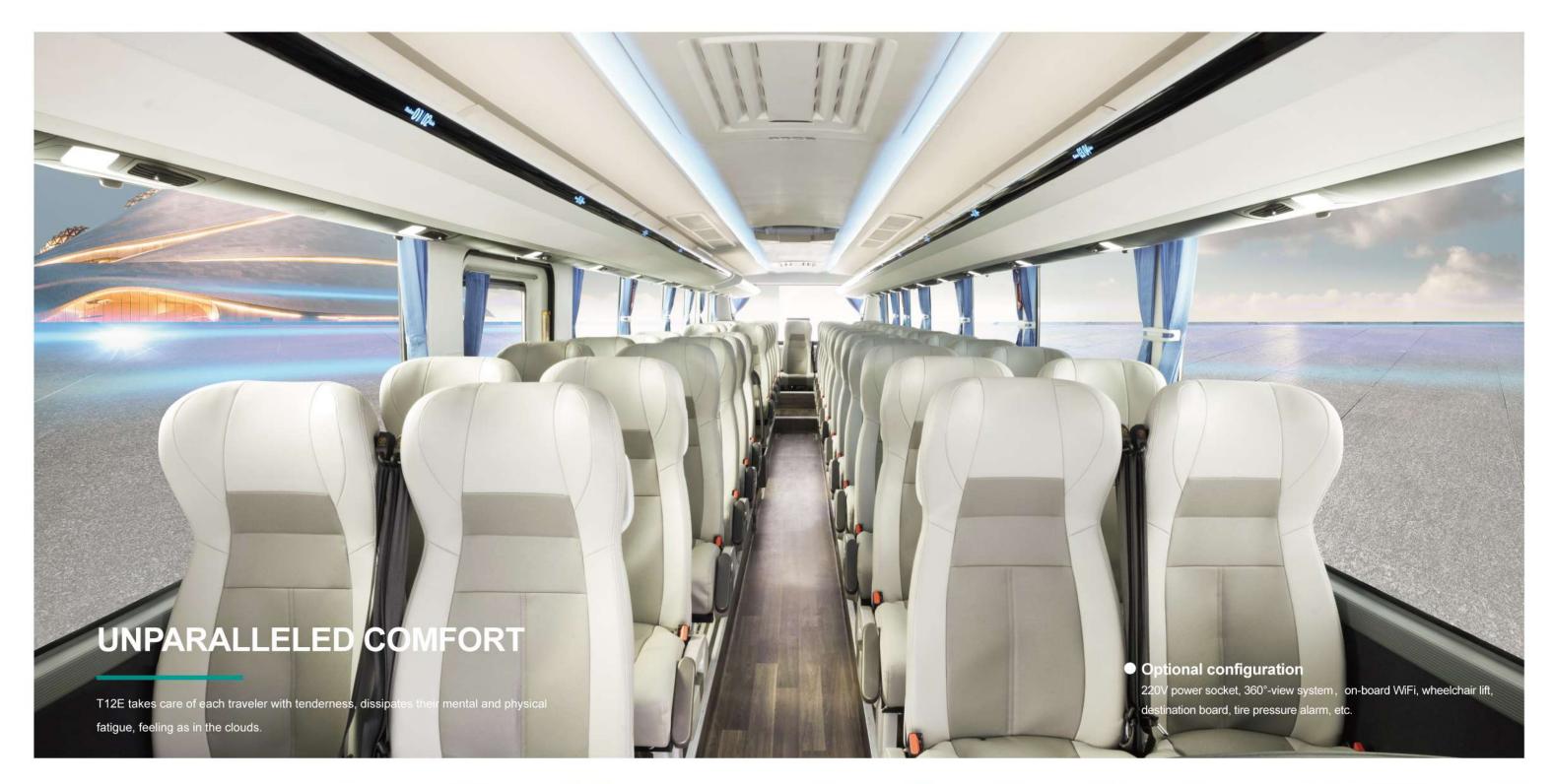
#### Visualized central control

The world-class Bosch central control panel and electric flip HD display are used to visualize the operation, bringing superior audio-visual experience.



#### Multifunction steering wheel

Smaller steering wheel, with a diameter of merely 450mm, integrates multiple common functions, bringing about handy manipulation with light steering.





#### Comfortable and smooth

Imported airbag suspension system, low-noise gears, maintenance-free, and specialized motor for battery electric vehicles, bring a smooth experience with greater sense of quality.



#### Relaxing and pleasant

The exclusive luxury seats tailored for European passengers are available in various colors, with adjustable backrest, USB charging interface and small table board, ensuring an entertaining and carefree travel.



#### Quiet travel

Passenger area noise ≤ 61dB(speed: 60km/h), enjoy a quiet travel inside the coach.



#### Elegant and graceful

Rhine White interior, LED number plate lights, European-style integrated luggage rack, colorful seats and five-color Equipped with Bosch's latest generation 7-inch central LED atmosphere lights create a spectacular visual effect.



#### Audio-visual luxury

control panel + 22-inch LCD color display, HD display and electric flip, audio-visual enjoyment is realized.



# SAFETY FROM ALL ASPECTS

In August 2021, Yutong Electric Safety Standard (YESS) has been launched globally, taking safety to a higher level.

#### Five protection



#### Vehicle protection

# Closed-loop rollover protection structure

700 MPa high-strength steel and closed-loop rollover protection structure are adopted, improving the safety of bus lateral structure as rollover accident occurs, which has passed the EU rollover test certification.



#### System protection

Full-time and full-domain nitrogen protection, real-time oxygen exclusion in the battery pack, truly "takes away the firewood from under the cauldron".



#### Component protection

Multi-package high-efficiency hydro-thermal technology, eliminates high-voltage heating components in the pack, making battery completely isolated from the "igniter".

# Energy-absorbing frontal collision protection system

The performance index of vehicle frontal collision protection has reached the internationally advanced level



#### Pack protection

Multi-level thermal-electrical coupling protection, achieves effective isolation of internal and external safety hazards, building a "moat" for batteries.



#### Monitoring and protection

24/7 uninterrupted monitoring system, safeguards battery safety anytime and anywhere.



# Yutong's exclusive integrated controller

The system HV connection points and volume are reduced by over 50%, with exquisite layout of harness, improving their connection safety.

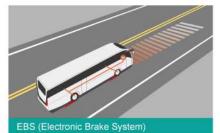
# Industry-leading new energy protection

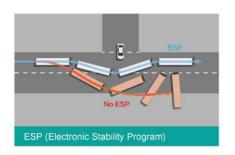
- The protection level of battery, motor controller and vehicle controller reaches IP68+IP6K9K\*
- The protection level of electric air compressor and electric steering oil pump reaches IP68;
- •The motor protection level reaches IP68+IP6K9K.

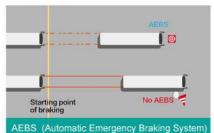
# YUTONG BUS YUTONG Comprehensive upgrade of charging supporting system Adaptive heating mode is adopted, ranging from -30 °C ~ 50 °C; covering all charger models, with diverse choices attainable. National standard 150 KW/160 KW European Standard 120 KW

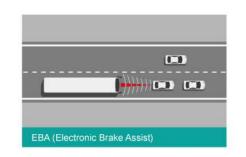
<sub>-14</sub>

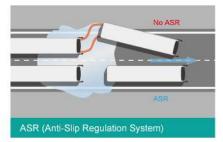




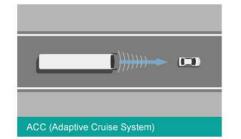




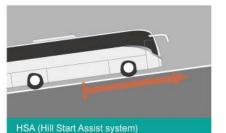


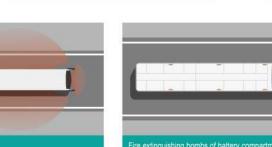
















Note: The above configurations or functions are optional.

∟16



# **GLOBAL APPL ICATION CASES**



From 2016 to 2021, Yutong has sold ICE12 continuously to French market. A large number of vehicles are running in various cities such as Paris, Lyon, Bordeaux, Provence, Vannes, and Rouen etc. The vehicles are stable in operation, low in noise, environmentally friendly, energy-saving, and comfortable, which are deeply loved by users, drivers and passengers.





## **Q** UK

Since October 2020, British customers have purchased 2 Yutong ICE12 to operate between Dundee and Edinburgh. The vehicles show stable and satisfying performance under highly intensive operating conditions. The customer was very satisfied and purchased another 6 E-coaches of the same model in September 2021.





# Luxembourg

From 2018 to 2021, customers from Luxembourg continued to purchase Yutong ICE12, and currently there are 6 units of ICE12. The vehicles are stable in operation, environmentally friendly, energy-saving, and comfortable, which are well recognized by users.





# **Q** Qatar

In 2021, 741 Yutong electric products were purchased at one time for Qatar World Cup, including 70 E- coaches, are undergoing trial operation.

According to customer feedback, the vehicles are stable in perfomance, beautiful in styling, green, environmentally friendly, and comfortable, which are well recognized by users.





## **O** Chile

In May 2021, one Yutong T13E E-coach was sold to Chile, which runs between Casino coposa and Collahuasib mining areas. Under high altitude and cold conditions, the vehicle operates and perfoms well. Therefore the customer is very satisfied and purchased another 4 vehicles of the same model in September 2021. In June of the same year, another customer bought one T13E, which is mainly used for miner commuting and are operating well at present





## Macao, China

Since 2017, Macao customers have purchased 117 Yutong E11 E- coaches it total. The vehicles run between the Macau Peninsula and Taipa Island. The vehicles are stable in operation, environmentally friendly, energy-saving, and comfortable, which are well recognized by users.







20



# **T12E**

# **VEHICLE SPECIFICATIONS**







Overall L*W*H (mm)	12245*2550*3710
Interior height (mm)	2012
Min. turning diameter (m)	≤18.5
Approach/departure angle(°)	7.5/7.5
Max. gradeability (%) (15km/h)	12 (20s)
Battery type	LFP
Energy storage system (kWh)	422, liquid cooling
Seating Plan	1 5 9 13 17 21 20 33 37 41 45 1 5 3 13 17 25 29 33 37 41 45 2 6 10 14 18 22 30 34 38 42 46 2 6 6 7 18 2 8 30 34 38 42 46