







ELEGANT AND LUXURY
YUTONG BRAND NEW HIGH-END BATTERY ELECTRIC BUS

## Yutong Bus Co., Ltd.

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# **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 millionm²
- Max.daily production capacity> 445 units
- Max.daily production capacity of new energy buses > 375 units
- 5m-18m full product lineup, incl. city bus, coaches, commuters, school bus, 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.

SPECIFICATIONS		
Overall length*width*height (mr	m) 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	
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Seating Plan



# **VEHICLE SPECIFICATIONS** (mm)







# **OUR MISSION**

Fantastic Travel to the Public Greater Value for Customers

Annual oil-saving	2,800,000,000 liters
Annual NO <sub>x</sub> emission reduced by	43,680 tons
Annual CO <sub>2</sub> emission reduced by over	7,500,000 tons
Annual PM2.5 emission reduced by	910 tons

## **GLOBAL APPLICATION 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 70E. coaches, are under going 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.





## **Q** Chile

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 in 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.

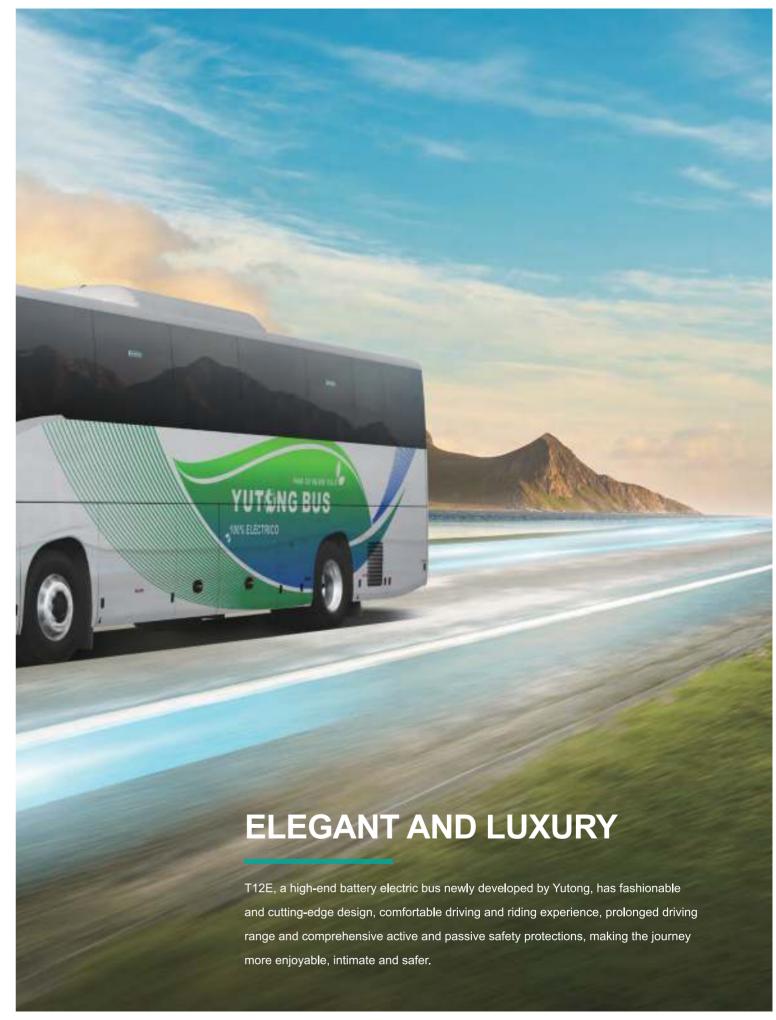






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working conditions; the operating mileage is compared according to the market average operation data.

Note: diesel vehicles use the typical 12-meter coach operation data in the market; T12E uses the average power consumption under comprehensive

882

2478

Won "DESIGN LABEL" award at Busworld in 2019





High corrosion resistance, light weight and fine skin smoothness.



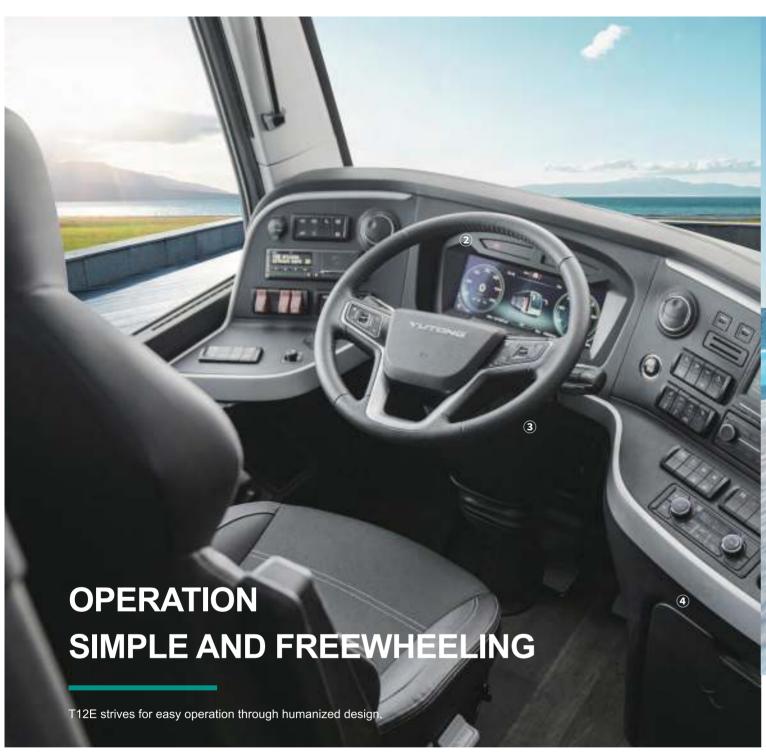
Combined rear taillights
Streamlined design, glamorizes the nights.



Electric exterior rear-view mirror
The styling of rabbit's ear resemblance with heating and

defrosting functions, integrates aesthetic design and practical value perfectly.

Fuel cost for 100 vehicles (ten thousand euros)







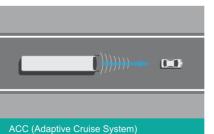
#### Air suspension driver's seat

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

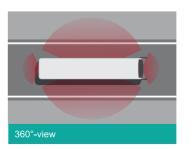
Automatic brightness adjustment, rich functions, full sense of science and technology.

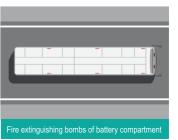






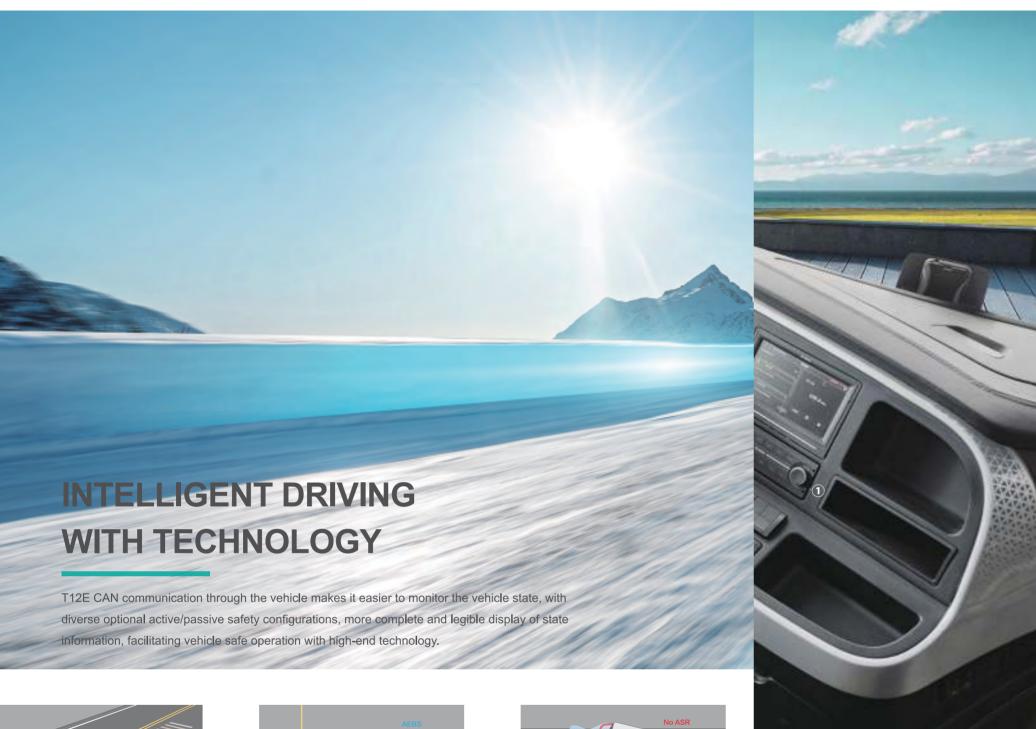


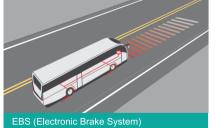


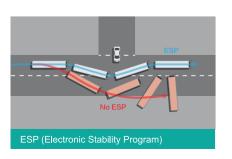


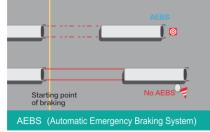


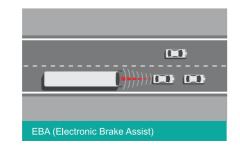
Note: The above configurations or functions are optional as needed.

















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 drive easy and pleasant.

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

- 2)12.3-inch digital instrument makes it easy to access driving information;
- ③Spacious driver's area and pneumatic controlled steering column angle and telescopic adjustment, ensure handy wheel steering;
- Several storage boxes are integrated near the cab to meet the storage needs of personal belongings and travel documents.



#### Visualized central control

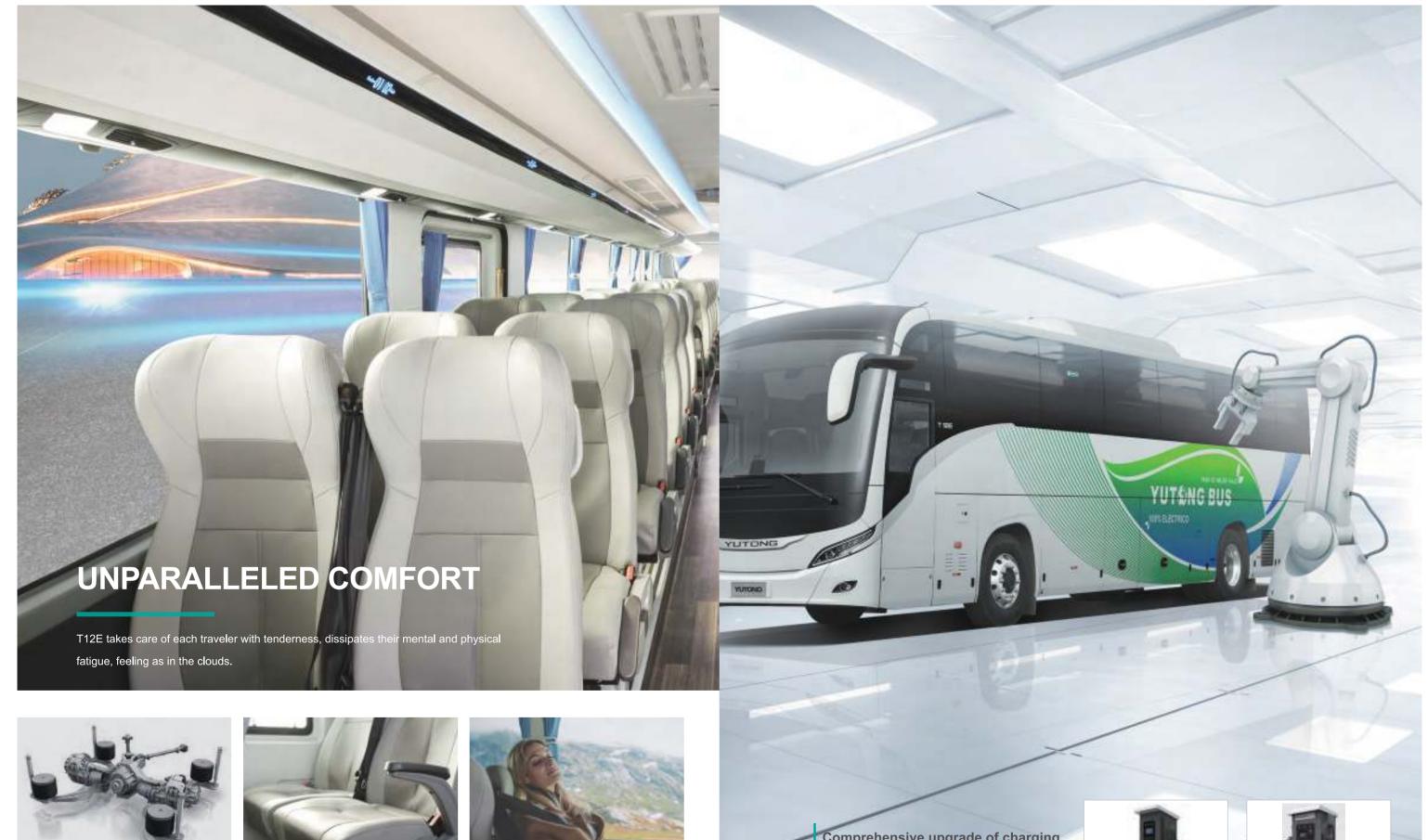
The world-class Bosch central control panel and electric flip HD display are used to visualize the operation, bringing superior audio-visual experience.



## Multifunction steering wheel

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

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#### Comfortable and smooth

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



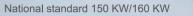
### Quiet travel

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

## 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.







European Standard 120 KW

# **SAFETY FROM ALL ASPECTS**

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



## **Vehicle protection**

## Closed-loop rollover protection

700 MPa high-strength steel and closed-loop rollover protection structure are adopted, promoting 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 "taking away the firewood from under the cauldron".



### Component protection

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



## Pack protection

Thorough energy-absorbing frontal collision protection system

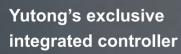
The performance index of vehicle frontal collision protection has reached the internationally advanced

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



### Monitoring and protection

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



The system HV connection points and volume reduced by over 50%, with exquisite layout of harness, thus 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.





## Elegant and graceful

Rhine White interior, LED number plate lights, European-style integrated luggage rack, colorful seats and five-color LED atmosphere lights create a spectacular visual effect.



## Audio-visual luxury

Equipped with Bosch's latest generation 7-inch central control panel + 22-inch LCD color display with HD display and electric flip, audio-visual enjoyment is realized.





# START THE VEHICLE **DRIVE AS MUCH AS YOU LIKE**

The super driving range capacity of the T12E allows you to drive

The maximum efficiency 97%, the peak power 350 kW, the peak torque 3200 N.m, and wider constant power area of the motor, effectively guarantee the dynamic performance and low power consumption of the whole vehicle, greatly showing the



#### High energy density power battery

- 1. Energy density > 160 Wh/kg, lighter weight, longer driving range and higher
- 2. The material of lithium iron phosphate battery is stable in structure, with a service life of 8 years (ternary battery only serves for 3~5 years).
- 3. The battery system can be maintained intelligently during operation and only needs to be maintained manually once a year, lowering the operating cost.
- 4. Power consumption ≤ 1.05 kWh/km, and driving range about 350 km. Note: CWTVC working condition, urban: highway: expressway cycles = 1:2:7, full