



#### Five-in-one controller

The weight of functional parts is reduced by 45% than that of the original ones, the volume by 65%. The number of high-voltage connection points is cut from 29 to 14, ensuring the safety of whole vehicles.

#### High-efficient permanent magnet synchronous motor

Directly driven by high-efficient permanent magnet synchronous motor and with stepless speed change, the vehicle boasts good ride comfort. Drivers don't need to make gearshift and can reduce the clutch stepping by over 2,000 times per day.

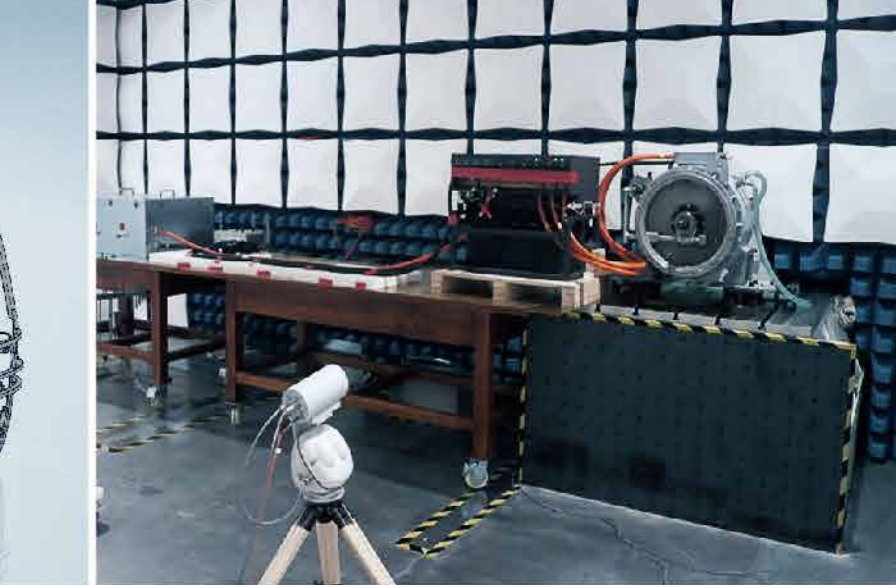
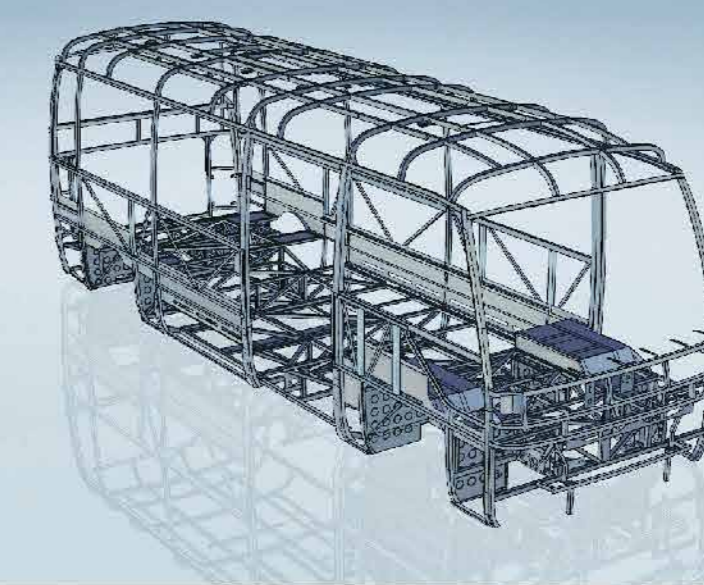


Through the intelligent scheduling platform, you can fully grasp the location and energy consumption status of vehicles, and rationally arrange the scheduling and charging sequence, thus greatly improving the operating efficiency of fleets.



## AN AIRFIELD BUS WITH ZERO EMISSION

Adopting distinctive ReCtrl technology, Yutong ZK6140BEVBD full electric airfield bus has overcome three bottlenecks of **driving range**, **battery service life** and **wading safety**, and the operating costs is greatly reduced compared to that of conventional airfield buses. In the meantime, it is also zero carbon emission, so you can easily achieve both economic and environmental benefits.



#### Structural safety design

Overall optimization of bodies  
Crash / Rollover safety analysis  
Layout optimization of vehicle systems  
Optimization of battery case structure  
Assessment test of falling batteries

#### Location of coupling problem

#### Optimization design of high voltage safety system

High voltage safety of battery case  
Battery system insulation  
Optimization of sensor arrangement  
Fault alarm device  
High voltage insulation detection

#### Structural optimization design and system safety monitoring




**Long driving range meets the one-day operation needs after being fully charged.**  
Taking full use of valley electricity can ensure the low operating costs.

- ▲ The battery module mounted on the roof boasts good isolation, and the core components of the batteries and the controllers have a waterproof rating of IP67, ensuring the ride safety of passengers.
- ▲ Batteries with high energy density are used. The cycle life is more than 5,000 times with long-lasting electric quantity, thus ensuring the full-day operation.
- ▲ Two charging modes, standard and quick, are available, and chargers and connectors that meet the European norms can be provided.



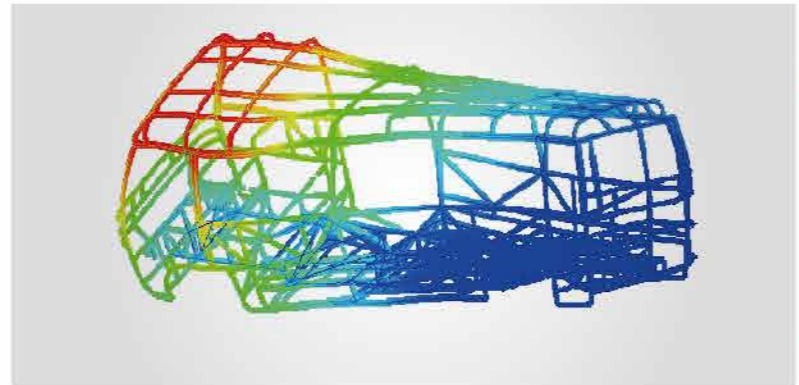


| ITEM                  | STANDARDIZED  |
|-----------------------|---|
| Drive motor           | YTM280-CV4-H  |
| New energy system     | Yutong ReCtrl full electric system  |
| Driving range         | 220km (Yutong test condition)   |
| Front axle            | Steering drive axle, bearing capacity 10,000kg  |
| Rear axle             | Supporting rear axle, bearing capacity 13,000kg   |
| Suspension system     | 2+4 air suspension with ECAS system   |
| Brake system          | Dual circuit pneumatic service brake, front & rear drum brake, energy storage spring parking brake, air drier, brake clearance automatic adjusting arm, condenser, ABS  |
| Tire                  | 295/80R22.5(rear wheel); 315/80R22.5 ( front wheel)   |
| Service door          | Pneumatic out-swing driver & co-driver door (optional: manual driver & co-driver door); 6 dual-leaf pneumatic out-swing service doors in the front, middle and rear on both left and right sides                                  |
| Air conditioner (A/C) | Roof-mounted independent electric A/C, independent A/C at cockpit, max. cooling capacity 56000 Kcal/h   |
| Seat                  | 8+11+1/8+2+1, passenger seat decorated with fiber glass   |
| Energy storage system | Lithium-iron battery  |
| Charging time         | Standard charging 1.5h; quick charging 6min (50km)  |
| Electric device       | Hard disk player, 2x 17" LCD, color reversing monitor with single camera, color reversing monitor with dual cameras, one-button starter of engine, drive recorder, communication device between cockpit and passenger compartment |
| Others                | Roof hatch with ventilator, electric sun visor, fire extinguisher, automatic fire bombs for engine compartment, wheelchair ramp, safety hammer with wires, engine waste heat defrost, water heating defrost                       |
| Seats layout          |    |

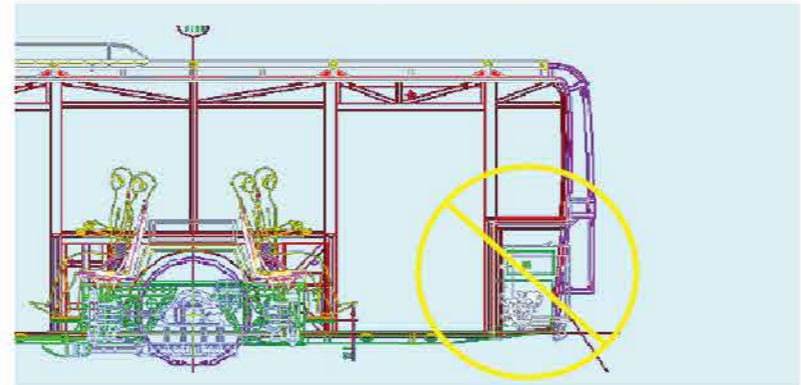


▲ The floor made of imported birch board, the sidewall consisting of compact grade laminate and the ceiling of punching alu-plastic panel boast water-proofing, anti-corrosion and anti-aging characteristics, giving the vehicle a long-lasting beauty.

▲ The cooling and heating air conditioner with 56000Kcal cooling capacity as well as the separately adjustable temperatures for the cockpit and passenger compartment ensure the optimum comfort for both drivers and passengers.



**Optimized structure**  
 The distinctive safety structure - annular frame member features smaller deformation than conventional structures, boasting large survival space, good protection of batteries and high safety amid rollover.



**Increased standing area**  
 With the electric air conditioner, the independent power package for diesel air conditioner is removed, and the standing area is increased by 1.71 m<sup>2</sup>. Meanwhile, the vibration noise is also greatly reduced.



Zhengzhou Yutong Bus Co., Ltd.  
 Yutong Industrial Park, Yutong Road, Guancheng District, Zhengzhou, China (PC: 450061) Tel: +86 371 6671 8999 Website: www.yutong.com E-mail: sales@yutong.com  
 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. August, 2017 Edition.



**ZK6140BEVBD** | AN AIRFIELD BUS WITH ZERO EMISSION