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E13

DRIVE INTO THE FUTURE WITH ROBUST PERFORMANCE



The brand-new E13 battery electric bus is a paragon of safety and performance. Its robust closed-ring structure, high-strength steel application, and dual rear axle design are meticulously crafted to prioritize the safety of drivers and passengers.

Measuring 12.8 meters, E13 features a sleek, modern design with the latest Yuhui styling. The interior is equipped with ergonomic adjustable instruments and upgraded comfortable seats. This eco-friendly vehicle delivers a safe and comfortable ride, ensuring a superior experience for every driver and passenger.



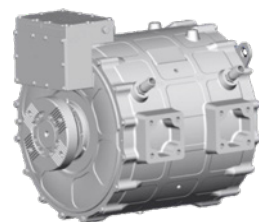
Three Core Systems, Driving Intelligent Management

High Performance Batteries



- CATL's high-energy-density batteries deliver exceptional charging performance, including fast charging capabilities and enhanced safety and reliability.
- The battery pack, high and low voltage wiring harnesses, and connectors are made of flame-retardant materials that adhere to international safety standards.
- The cells and modules undergo stringent safety performance tests, including nail penetration, squeezing, and thermal tests.
- Enhanced battery safety equipment, such as nitrogen, liquid heating, and flameproof covers, are added to effectively mitigate the risk of fires due to short circuits or thermal runaway.

High Efficiency Motor Direct Drive System



- Adopts an advanced motor direct drive system and a permanent magnet synchronous mid-mounted motor.
- Utilizes maintenance-free bearings, which are compact, highly efficient, and provide a wide constant power speed range, as well as excellent environmental adaptability, achieving peak efficiency of up to 97%.
- The motor direct drive system is noted for its high efficiency and low energy consumption, with the vehicle's SORT2 condition unit energy consumption at 0.82 kWh.

Highly Integrated Controller



- Employs a five-in-one integrated controller, simplifying the high-voltage part connections, reducing the potential for failures, and minimizing safety risks.
- The controller integrates multiple functions, including the drive motor controller, steering motor controller, air compressor controller, DC/DC converter, and high-voltage distribution system (including drive motor, steering motor, air compressor, DC/DC, electric defroster, electric heater, and electric air conditioning high-voltage distribution).
- The integrated controller complies with CLASS 5 electromagnetic radiation standards, with radiation levels 10-20dB lower than traditional CLASS 3, ensuring no interference with the normal operation of other vehicle electronic systems or passenger electronic devices.

Ergonomic Design, Elevating Comfort



Adjustable Instrument

The driver's area is designed following ergonomic principles to enhance the driving experience, reduce fatigue, and improve overall comfort.

Enhanced Driver Seat

The ISRI 875 driver's seat features enhanced wraparound support and multiple optional functions, improving driver's comfort and safety during long rides.

Wide Passenger Seats

E13 features new generation (8MA) bus seats with ergonomic design, integral insert molding, a modern appearance, and reduced weight.

Front and Rear ZF Axles and Independent Suspension

Front axle: The turning radius is reduced by 1m compared to a rigid front axle (same wheelbase), enhancing vehicle maneuverability. Rear axle: Optimized transmission efficiency and reduced drive unit noise. Excellent ride comfort, high transmission efficiency and minimal noise levels.





Refined Details, Ensuring Safety

Intelligent Electronic Safety System

Electronic Braking System (EBS)

EBS system integrates ABS and ASR for shorter braking distances and enhanced braking comfort, improving vehicle safety and reducing both accident risk and driver workload.

Electronic Stability Control (ESC) System

ESC prevents rollovers during understeering or oversteering, especially on slippery roads, ensuring the vehicle follows the driver's intended path and enhancing active safety.

High-standard Safety Protection for Battery, Motor and Electric Control

High-level Waterproof Protection

Battery, electric controller, and motor have an IP68 protection level. After being soaked in 1 m deep water for 24 hours, they can still work normally, preventing water ingress, fire or explosion.

Vehicles remain operational during rainy season floods, and nighttime submersion incidents can be handled the next day, providing flexible response time, preventing safety accidents, and minimizing customer losses.

Sediment Protection Structure Ensures Motor Operation

A sediment protective device at the motor power output end prevents sediment entry, reducing failure and maintenance costs.

Anti-condensation Structure

The motor's anti-condensation design keeps internal parts as junction box dry in low temperatures, maintaining wire harness insulation and reducing failures and maintenance cost.

Vehicle structural safety

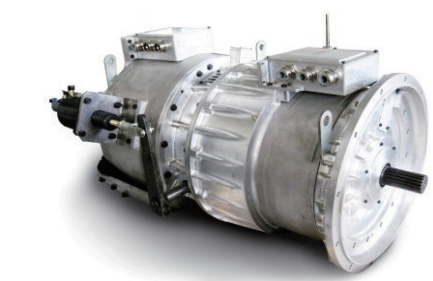
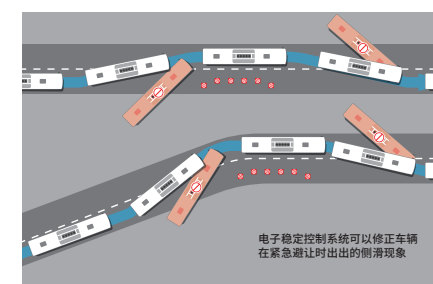
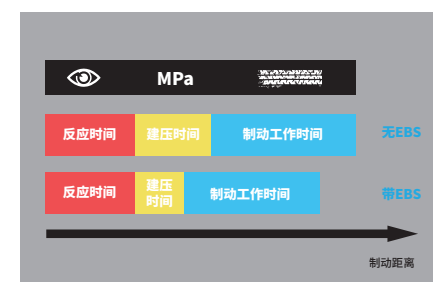
A robust closed-ring structure and lightweight high-strength steel are used to enhance frame safety.

Key stress profiles made of lightweight high-strength steel (750~880Mpa) ensure stronger capacity.

The vehicle's robust structure and tougher body enhance safety. In collisions or rollovers, minimal deformation better protects passengers from injury.

High Strength Floor

The floor uses the combination of Finnish and PP honeycomb boards for excellent weather resistance, strength, and sound insulation, enhancing overall performance in high temperature, high humidity and cold rainy environments.





Convenient Maintenance, Reducing Operating Costs



Removable and Flippable Front Wall

A removable and flippable front wall, opening in multiple directions, simplifies maintenance and disassembly of lamps, defrosters, and wipers.

Good vehicle maintenance accessibility reduces maintenance costs.

High-Opening Rear High-Voltage Compartment

The compartment door opens to 120°, providing ample space for easier maintenance, reducing labor intensity and saving time.

Segmented Aluminum Alloy Ventilation System

Each segment can be opened independently for easy inspection and repair of electrical components, refrigerant tubes and wiring harnesses in the air duct, thus improving maintenance convenience and reducing maintenance cost.

Good weather resistance and aging resistance ensure low long-term maintenance cost.



Premium service, exceptional after-sales

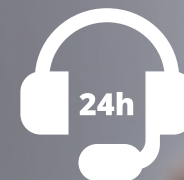
Yutong has been constantly improving its service mode and enhancing its service capability, to build a professional integrated service platform.

Provide customers with more convenient and efficient high-quality service experience, meeting customer' s diversified needs.



Dedicated new energy service team

Attentive service team
All-dimensional troubleshooting
and maintenance
Real one-stop service



7*24h attentive service

Delivery - Registration - Operation
7*24h all-round attentive service



Service + Training

Free hierarchical, classified and
targeted training for customers'
drivers and management
personnel, with support
throughout the full life cycle.



Nearby stationing, quick response

Stationed near the customer
company or main operating
routes to ensure rapid response.



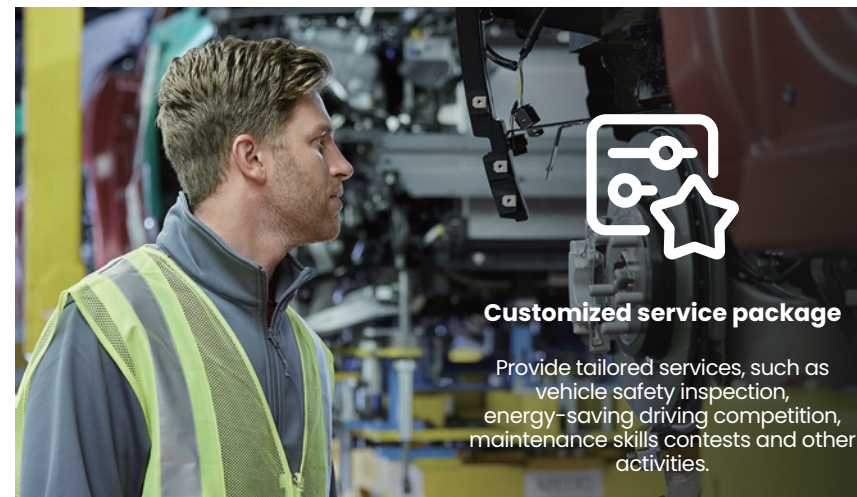
Backstage monitoring and active intervention

Proprietary safety monitoring
system to control vehicle operation
in real time, and actively intervene
to handle problems.



Customized service package

Provide tailored services, such as
vehicle safety inspection,
energy-saving driving competition,
maintenance skills contests and other
activities.





E13

L*W*H (mm)	12,770*2,520*3,300
Curb mass (kg)	14,600
Manufacturer's total mass (kg)	21,700
Passenger capacity	75
Approach/departure angle (°)	7/8
Maximum speed (km/h)	80
Minimum ground clearance (mm)	140
Minimum turning diameter (m)	22
Gradeability (%)	18(15km/h)
0-50 km/h acceleration time (s)	13.7
Rated/peak power (kW)	250/500
Rated/maximum torque	2,400/4,000
Axle	Front and rear ZF axles, the third Molead axle, with friction disc wear indication
Battery capacity	352.08kWh 399.92kWh
SORT2 power consumption kWh/km	0.82
SORT2 driving range	220~270
Battery brand	CATL
Motor type	PMSM
High voltage safety protection	IP68 for battery, motor and electronic control
Controller	Five-in-one integrated control (drive motor, steering, air compressor, high voltage distribution cabinet and DC/DC)
Electromagnetic compatibility	The high-voltage wiring harness uses shielded wires, the controller features 360° shielding, and the battery modules are interconnected with shielded structures
Intelligent configuration	Automatic Headlights and Wipers
	Brake hold
	Haltbrake
Dashboard	Adjustable dashboard
Instrument	ACTIA 7-inch display screen
Battery type	C pack and G pack
Charging pile	120 kw (3 h)
Current converter	Mounted on the charger
Exterior trim material	Glass fiber reinforced plastic and composite materials
Anti-corrosion process	16-step electrophoresis process, over 15 years of anti-corrosion protection