Three Values of YEA Provide Long-term Guarantee for Commercial Vehicles

MORE ECONOMICAL

efficient operation, longer range, with driving range up by more than 10% and operating cost down by 20%

MORE DURABLE

stable operation, safer and more reliable with attendance rate up to 99% and stable running for as long as 1.5 million kilometers

MORE CONVENIENT

24|7

intelligent operation and effective management to bring 24/7 worry-free and reassuring experience

Product lineup

U series	T series	E series
		

Commercial vehicle

Light trucks

Heavy trucks

Sanitation vehicles

Mining trucks

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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.

Yutong Electric Architecture

EV-specific platform integrating hardware and software for commercial vehicle

YEA

The first EV-specific platform integrating software and hardware in the CV industry
Ushering in a new era of hardware integration and software OTA upgrade

Independently developed cross-domain integration

C Architecture

- Centralized computing power
- Hardware and software decoupling
- Vehicle OTA
- Central computing unit
- Multi-in-one power domain controller
- Intelligent cockpit controller
- Driver assist controller

Independently developed vehicle operating system

YOS

- Real-time vehicle OS
- Intrinsic security
- High efficiency
- Service layer: compatibility with a full range of underlying operating systems
- System layer: centralized control of all software and hardware
- Drive layer: transcending hardware differences

Function safety reaches the highest D-level

OTA update during the vehicle's lifecycle

C architecture and YOS, the two cores

System transmission efficiency is improved and control effectiveness doubled

Seven assemblies at the technical level provide a solution to current problems facing the industry

New generation of high-safety super-energetic battery

The combination of a sandwich fireproof and heat insulation structure with an industry-pioneering nitrogen protection system gives the battery its superb safety performance: 2 hours of protection at a temperature of 1300°C, no water ingress and no explosion after 72 hours of 8m-deep water immersion.

The latest generation of high-specific energy cells plus a highly integrated structure design see battery space utilization rate up by 50% for even longer driving range.

Multi-in-one SiC power domain controller

Silicon carbide features good performance, high efficiency and a breakdown strength much higher than silicon-based components which makes it more resistant to high voltage.

System efficiency up to 99.5%, system weight reduction by 50% and vehicle energy consumption reduction by 5%

New-generation efficient and lightweight integrated E-axle

The E-axle comes in compact structure, featuring high integration and short power transmission chain. As a result, powertrain sees a weight reduction of 49%.

The braking energy recovery efficiency is up to 77%, while the comprehensive energy consumption of the whole vehicle is reduced by more than 15%

The first CV multi-source low temperature heat pump

The vehicle A/C, battery and electric drive thermal management are placed under cooperative and unified control to allow on-demand distribution as well as efficient recovery of thermal energy for the whole vehicle.

The ultra-low temperature heat pump can still operate normally when ambient temperature drops to -25°C. With the help of low temperature heat pump, heating energy is saved by more than 30% and the stable operation of the vehicle within the temperature range of -40° Cand 60°C can be ensured. Besides, it also helps the vehicle improve driving range in winter by over 10%.

Intelligent connected CV cockpit

Yutong intelligent cockpit integrates central control, instrument, switch and A/C panel into one under the " multiple screens powered by one chip" control technology.

The benefits are obvious: functions expanded by 20%, physical switches reduced by 50%, bringing a new look to users and making interaction safer, more intelligent and more humanized.

Efficient opportunity charging technology

The industry's first double charging technology, with the highest charging power of 600KW. Free match of any two charging guns, expandable for three-gun-charging and even four--gun-charging functions give you the flexibility in charging. A continuous current of 600A for a single gun means megawatt-level charging can be realized when charging with two guns.

Intelligent cloud platform with PB-level storage and tera-scale computing power

Based on cloud platform and big data analysis, safety alarm functions including driving behavior early warning can be provided. Thanks to these early warning functions, statistics shows that dangerous driving behavior decreases by more than 30%, with accuracy rate of early warning reaching 95%, greatly improving operational safety and reducing costs

Active inspection management · Peak & off-peak charging expense management · Self-adaptive energy management · Dangerous driving behavior management · On-demand maintenance management · Traction battery safety alert · Zero accident safety management

Applicable to multiple urban scenarios, with prominent advantages

FARTHER

The drive range is ahead of others by more than 10%.
A single-charge range can reach 500 kilometers

EFFICIENT

independent dual plug fast charging,
worry-free operation all the day

POWERFUL

surging power performance and strong adaptability to road conditions

DURABLE

normal operation within a temperature range of -40°C～55°C, capable of handling desert, Iceland and hilly road conditions

RELIABLE

consistent performance despite harsh environment, adaptability to complex road conditions

INTELLIGENT

driver behaviors and vehicle status can be analyzed in combination with the Internet cloud platform to flexibly respond to many scenes during driving

ECONOMICAL

TCO of light trucks, heavy trucks, buses and other models drops by 20%, further reducing costs

Note:TCO (Total Cost of Ownership)