Media Kit
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Yutong Technologies

Yutong Bus Co., Ltd.

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I. YUTONG EV Long-life Tech

The “YUTONG EV Long-life Tech” is an innovative technology to address customer pain points. Yutong has pioneered the using of traction batteries with longer lifecycle and more efficient flat wire motors, as well as 7-in-1 silicon carbide controller. The battery is designed for a 15-year/1.5 million-kilometer lifespan. The high integration efficiency and lightweight structure significantly enhance battery life and performance, improving structural strength and delaying battery degradation from multiple dimensions. The low-resistance and hairpin winding technology greatly improve motor efficiency and reliability. The integrated and lightweight controller not only significantly increases space utilization and reduces failure rates, but also greatly enhances safety and efficiency.

1. Long-life Traction Battery

Slow battery degradation: By adopting technologies such as the flat distribution of positive electrode particles and low-lithium-consumption graphite, the battery’s degradation is delayed, achieving a cycle life of over ten thousand times.

Corrosion and aging resistance: Durable coating technology is applied to solve the problem of extreme corrosion, ensuring the battery’s outstanding corrosion resistance over its entire 15-year lifespan. Under various harsh conditions, the coating demonstrates strong anti-corrosion capabilities: In high-salt conditions, after 4 weeks of de-icing salt corrosion testing, the coating shows no rust, bubbles, or other defects, fully ensuring the battery’s corrosion resistance in regions like Northern Europe where de-icing salts are heavily used in winter; in high-temperature and high-humidity conditions, after 10 weeks of high-temperature and high-humidity cyclic salt spray testing, the battery achieves corrosion resistance across different conditions throughout its lifecycle.

High Protection: Yutong’s long-life batteries are designed with multiple waterproof structures, allowing them to remain undamaged after being immersed in 1

meter of water for 48 hours. Unlike Chinese National Standard, which only conducts a standalone water immersion test, Yutong takes into account the actual working conditions of the vehicle throughout its entire life cycle. The batteries undergo continuous water immersion tests on the basis of combined tests with three factors: temperature cycling, high humidity, and vibration. This ensures that the batteries meet waterproof requirements for two days and nights at a depth of 1 meter over its full 15-year lifespan, significantly reducing the economic losses to the vehicle caused by floods.

High Specific Energy: While achieving long life, the battery energy density is increased to up to 175 Wh/kg, supporting the vehicle's lightweight design, reducing overall energy consumption, and extending the driving range.

2. High Efficiency Flat Wire Motor

High Efficiency: Through the optimization of multi-layer hairpin winding design, loss separation and condition matching technology, and the use of 0.25 mm ultra-thin silicon steel laminations, the motor efficiency is further optimized with a maximum efficiency reaching 97.8%.

Low Resistance: Overcoming the challenges of multi-layer hairpin winding design and manufacturing, Yutong has pioneered the launch of 8/10-layer hairpin winding motors in the bus industry. Compared to round wire windings, the pure copper slot fill rate has increased from 40% to over 60%, the winding end length has been shortened by 10 mm, the resistance has decreased by 20%, and the motor copper loss has been reduced, resulting in an efficiency improvement of 0.5% to 1%.

Durability: By matching high coercive magnetic steel and optimizing the insulation coating of the magnet wire, a high-temperature-resistant insulation system has been developed. The motor's temperature resistance capability has been increased by 30%, while delaying the electrothermal aging of the insulation system, extending the motor life to 20 years/2 million kilometers.

High Protection: Through the optimization of static and dynamic sealing combinations, and the use of high-wear-resistant oil seals and high-protection-grade connectors, the motor can withstand immersion in 2 meters of water for 72 hours

without water ingress, achieving the highest level of protection in the industry.

3. Seven-in-One Silicon Carbide Controller

High Integration: The original multiple separate control units are integrated into one. The motor controller, steering motor controller, air compressor controller, electric accessory power distribution, vehicle DC/DC, DC charging circuit, and insulation detection functions are deeply integrated into one unit. It fully integrates high-voltage control and charging/distribution functions, becoming the most integrated controller in commercial vehicle industry.

Lightweight: The number of high-voltage connectors is reduced from 33 to 16, significantly lowering the failure rate. Meanwhile, the weight is reduced from 108 kg to 65 kg, and the volume is reduced by 40%, significantly improving the internal space utilization of the vehicle.

High Efficiency: By adopting SiC technology, the hardware limitations of Si-based IGBT power modules that restrict the improvement of driving efficiency are resolved. Leveraging the low conduction loss and high voltage tolerance of SiC, combined with high-frequency efficient control algorithms, the controller's maximum efficiency can reach 99.8%. Compared to the previous generation, the high-efficiency area increases by 7%, supporting a 3% reduction in vehicle energy consumption.

High Protection: With advanced protection technology, it can be immersed in 2 meters of water for 72 hours without water ingress and meets the IP6K9K rating, achieving an internationally advanced level.

II. LINK+ (YUTONG fleet management)

Link+ (Yutong Fleet Management) is a comprehensive intelligent management and data application platform for fleet operations. It offers five core functions: Safety Management, Intelligent Management， Driver Service, Maintenance Management and Parts Service for enterprise managers, fleet managers, drivers, service managers, and parts managers. The platform provides smart tools for managing, operating, maintaining, and repairing vehicles, delivering comprehensive "safety-intelligence-

efficiency" support for fleet operations.

Powered by AI and big data, Link+ drives data-based decision-making, revolutionizing the global bus industry by transitioning from “passive reactive services” to “proactive intelligent services”. This helps fleet operators to reduce costs and enhance efficiency. Link+ makes fleet management more hassle-free. With its two core modules of intelligent monitoring and intelligent control, it covers five major functional scenarios, helping users keep informed of vehicle status in real time and optimize operational efficiency.

Safety Management

Risk Management: Identify real-time operational data (speed/accelerator pedal/lights), component status (AC/motor/tire pressure), and energy consumption. Identify high/low risk vehicles, categorize them by driving/parked/charging/fault status to ensure vehicle safety.

Digital Tracking: Record critical historical data such as vehicle location, direction, speed, powertrain details (main motor RPM, current, voltage, and temperature), and speeding incidents. Provide reports and analytics to support efficient energy consumption management.

Event Subscription: Offers multiple event types, including brake air pressure, vehicle faults, prolonged idling, parking timeout, full charge, low battery capacity when entering or leaving the geo-fencing zone, speeding, rapid acceleration/deceleration, and idling with doors open. Customers can subscribe to events based on operational needs to ensure safe operations.

Intelligent Management

A/C Management: Activate/deactivate fleet or individual vehicle A/C systems on schedule, and preset temperature and airflow to enhance passenger comfort.

Geo-Fencing Management: Innovative geo-fencing technology allows customized zones and speed limits, providing reminders for specific areas. When charging within the zone, the system can automatically stop charging once the set limit is reached, preventing overcharging, conserving energy, and improving fleet safety and efficiency.

Charging Management: Integrate charging pile data to provide real-time identification, intelligent start-stop, and optimized charging strategies for battery electric vehicles, maximizing efficiency and cost-effectiveness.

Driver Service

Intelligent Inspection: Conduct intelligent function checks and exterior checks on vehicles before and after use to ensure they are roadworthy, promoting driver safety, timely maintenance, and enhanced vehicle uptime.

Vehicle Operation Management: Evaluate driver performance monthly and daily across four dimensions—economic efficiency, safety, comfort, and vehicle care—providing scientific data for energy conservation.

Vehicle Operation Analysis: Precisely analyze each trip with visualized vehicle usage charts, offering drivers objective feedback and optimization strategies.

Maintenance Management

Maintenance Calendar: Support both Yutong standard and custom maintenance cycles with automatic reminders for scheduled upkeep.

Service Data Query: Online service data supports keyword search, cross-document search, structured catalog, quick positioning and real-time content update for efficient access.

Service Reservation and Progress Query: Schedule maintenance or repairs with one-click appointments at nearby service stations or with preferred technicians. Track progress online and rate service satisfaction.

Training Portal: Access online training materials (documents/videos) and manage internal training programs, including learning progress and exam administration.

Parts Service

Parts Query: Check part details, pricing, and inventory with layered catalog browsing, part number search, or fuzzy description matching. Also support stock queries at specific service outlets.

Parts Ordering: Automatically verify, filter errors, and provide reminders based on the customer's registered vehicles. Choose specific service outlets for orders, import

parts lists for bulk ordering, and track progress online—including order confirmation, preparation, shipping, port arrival, and delivery—with estimated timelines for each step.

Ⅲ. YEA （Yutong Electric Architecture）

YEA is the first EV-specific platform integrating software and hardware in the commercial vehicle industry. Featuring a hyper-integrated, scalable, and self-evolving design, it meets full-scenario needs across all commercial vehicle segments. Its seven core technological assemblies address current industry challenges.

1. New generation of super-safe battery

Yutong employs LFP batteries that meet IP68 and IP6K9K waterproof standards, ensuring robust water and airtight performance. With a density of up to 175 Wh/kg, these batteries save space or reduce vehicle weight, extending driving range and increasing passenger capacity. They also offer an ultra-long service life, capable of meeting demands of up to 1.5 million kilometers across various models and scenarios.

2. Highly Integrated Power Domain Controller

Yutong's new-generation controller utilizes silicon carbide materials, achieving 99.5% power efficiency, a 50% weight reduction, and a 5% decrease in overall vehicle energy consumption.

3. New Generation High-Efficiency, Lightweight Integrated Electric Drive Axle

By combining the motor and axle into a single unit, system integration and transmission efficiency are enhanced. This design reduces weight by 49%, expands the low-floor area by 50%, creates more passenger space, and lowers the vehicle's comprehensive energy consumption by 15%.

4. Widely compatible megawatt-level supercharging

Yutong pioneered the high-efficiency energy replenishment standard and natural-cooling 600A independent dual-plug charging technology. The dual plugs allow plug-and-play convenience, while liquid-cooled supercharging enables megawatt-level charging. For a 500-kWh battery pack, the industry typically requires at least an hour to reach 80% charge. Yutong’s supercharger achieves a full charge in under an hour.

5. Multi-source ultra-low temperature heat pump

It intelligently selects heat sources based on environment and operating conditions to maximize heating efficiency. The ultra-low temperature heat pump operates down to -25°C, achieving over 30% energy savings in heating and enabling integrated thermal management across the vehicle.

6. Intelligent connected cabin

Yutong's smart cockpit features integrated "one-chip multi-screen" control technology, supporting interaction modes like intelligent voice control, mobile phone connectivity, and multi-directional projection, along with functions such as vehicle-cloud interaction, online services, and scenario-based services—making interactions safer, smarter, and more intuitive.

7. PB-level storage, billion-level high-computing intelligent connected cloud platform

An intelligent connected cloud platform with billion-level high-performance parallel computing enables smart operation management throughout the entire lifecycle.

Ⅳ. YESS (Yutong Electric Safety Standard)

YESS is an industry safety standard, establishing five layers of protection—from the entire vehicle down to the system and the battery pack. In the most rigorous tests, the battery remained fire-free even after being submerged in 2 meters of water for 72 hours or exposed to 1300°C flames. The rear collision protection withstands impacts equivalent to a 49-ton truck.

Based on real-world operating conditions of new energy buses, protective technologies are implemented across five levels: vehicle, system, pack, components, and monitoring. This achieves three key enhancements: traction battery safety, all-weather capability, and road condition adaptability.

Three key enhancements: safety level, all-weather capability, and road condition adaptability.

Five layers of protection: vehicle, system, pack, components, and monitoring.

Ⅴ. Yutong DMT Hybrid Power System

The new generation DMT (Dual Mode Transmission) system eliminates the transmission and introduces a new high-efficiency, high-power-density motor with coaxially arranged motor and generator. This transmission-free design reduces mechanical failures and enhances reliability. The new motor is more compact and efficient, while the motor and generator series-parallel drive enables multiple operating modes.

The high-efficiency, high-density motor is lightweight, compact, and feature excellent heat dissipation, reducing the weight of the electric drive system and increasing power density. A water-cooled/encapsulated cooling design ensures high heat transfer efficiency. These motors meet demands under extreme conditions, improving overall vehicle fuel economy. Rigorous testing—including performance, reliability, durability, high/low-temperature vibration, electromagnetic compatibility, protection ratings, and field road tests—guarantees safety and dependability.

Yutong's DMT system removes the transmission. This directly lowers mechanical failure rates, boosts system reliability, and improves energy efficiency. The motor-generator setup also allows flexible adaptation to various operating conditions. In essence, hybrid technology strikes the optimal balance between energy savings and reliability under real-world conditions.