

Features & RIDE's Value-Added Service

RIDE is a one-stop manufacturer for battery electric school buses and all related components. All major components such as battery assembly, traction motor, inverter, energy storage system and power train components etc. are designed, engineered and manufactured by RIDE.

All elements of the bus are designed and manufactured in-house, which will result in better compatibility and performance of each component and subsystem. The availability of these key components is not dependent upon any supply chain issues or premature obsolescence from a third-party source.

Safest Electric School Bus

For an electric school bus, the battery is the heart of the vehicle. RIDE has the option of offering the conventional modular type of battery to meet the performance requirements, but RIDE is offering the safest type of battery to add extra values to the proposed Battery Electric School Bus project. The surface temperature of the battery reaches only 30 °C to 60 °C. Our battery is the only power battery in the world that can pass the nail penetration test and other more stringent and extreme test scenarios.

The proprietary RIDE battery is designed and constructed to ensure safety in mind for the workers and passengers. The battery is highly resistant to emitting smoke or fire after being penetrated or severely damaged.

Our electric school buses equip an "Electronic Braking System (EBS) " and "Electronic Brake Control (EBC) Function " on a bus, which is an advanced, electronically controlled system that significantly improves braking safety and efficiency over conventional air brakes.

Superior Battery Warranty with Largest V2G or V2B

BYD || RIDE's proprietary batteries have a 12-year warranty for our school bus customers.

Furthermore, BYD || RIDE electric school buses have V2G (Vehicle to Grid) or V2B (Vehicle to building) capabilities.

RIDE has partnered with BC Hydro in September 2025 to conduct a field test for V2G at Lynch Bus Line facility and successfully sent 2 mw electricity back to BC Hydro.

RIDE provides the largest discharging capacity (compared with other OEMs, up to 5 times more), which could produce more capacity of discharge volume to the grid and bring more revenue to the school bus operators.

High-End Specification

- Roof-top HVAC (Air-conditioning for cooling and heating) is our standard specification, which provides a comfortable rider experience during the summer and winter.
- The RIDE Type D electric school bus, equipped with air suspension, provides a level of comfort comparable to the coach bus. Additionally, the bus has 2 large luggage compartments for field trips.
- The telematics box (Tecium, a Canadian vendor) is equipped as a standard configuration, which facilitates customers in monitoring the bus for performance, preventive maintenance and location tracking (Cloud web real-time service is an option)
- Both AC Level 2 (19.2 kW) and/or DC Fast Charger (Max.120kW) compatible.

Local Support & Flexibility for Maintenance Service

- RIDE has established a local service shop (8750 Ash St, Vancouver, British Columbia, V6P 3M2) under a partnership with Cypress Coach Line.
- An experienced local technician can be provided to serve the customers in the Vancouver area.
- In addition to a one (1) year full bus (bumper-to-bumper) warranty, BYD || RIDE provides more flexibility for maintenance service, which allows our customer to repair/replace non-high voltage parts/components under a Service Agreement (with an agreed hourly labor rate) for immediate repair.