



SAFETY FIRST | EXCLUSIVE INNOVATIONS | TRUSTED LEGACY
www.collinsbus.com

NEW
100%
EMISSION FREE



POWERED BY
MOTIV

ALL-ELECTRIC TYPE A SCHOOL BUS

WE'VE TAKEN A YELLOW SCHOOL BUS AND MADE IT GREEN

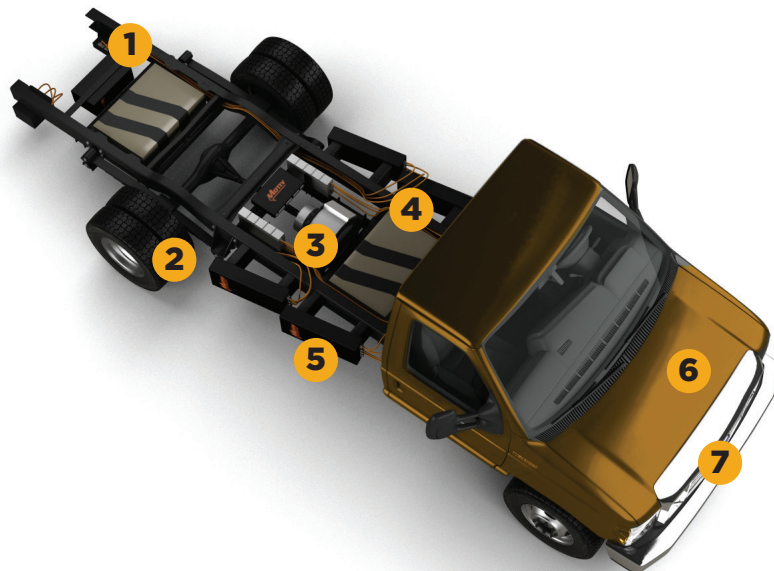
Collins developed the first Type A school bus in 1967 and for more than five decades we've been committed to innovating the future of school buses and ensuring we protect our most important passengers – mile after mile. Innovative engineering and platform flexibility fuel our process to build buses that meet every need and deliver industry-leading strength and safety. Collins designs and manufactures school buses that are at the head of their class.

Now the safest bus on the market provides the safest all-electric powered school bus as well.



ELECTRIC BUS SPECIFICATIONS

- 1. CHARGER** – Adaptable connector for easy field replacement capable of supporting 25 kW.
- 2. REGENERATIVE BRAKING** – Recaptures energy to extend range and reduces wear and tear on brake components.
- 3. MOTOR** – Six phase, permanent magnet synchronous axial flux AC motor for powerful, smooth acceleration.
- 4. BATTERY** – EPIC chassis are battery agnostic allowing for different battery technologies and chemistries. Also utilizes automotive batteries which keep purchase and replacement costs low.
- 5. ADAPTIVE POWER CONVERTER (APC)** – APCs keep battery balanced and at optimal charge for long service life and great performance.
- 6. DRIVE TRAIN** – No transmission needed and no shifts.
- 7. MOTIV EPIC E-450 CHASSIS** – Based on the popular Ford E-450 platform with more than 500,000 real world miles



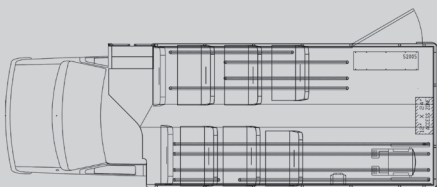
CHASSIS

OEM PLATFORM	Ford E-450
MAX GVWR	14,500 lbs.
BATTERY TECHNOLOGY	Sodium Nickel
BATTERY CAPACITY	106 kWh
RANGE	85 miles
PEAK MOTOR POWER RATING	150 kW / 201 hp
PEAK MOTOR TORQUE RATING	1,060 Nm / 780 ft-lbs
GRADEABILITY	17%
MAX SPEED	65 mph
REGENERATIVE BRAKING	Standard
CHARGING TYPE	J1772 / 15 kW
50% CHARGE TIME	~2.5 hours
75% CHARGE TIME	~4 hours
100% CHARGE TIME	~8 hours

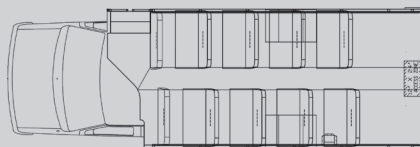
FEATURES & BENEFITS

- Up to 85% reduction in operating costs and 66% reduction in maintenance costs
- Utilizes industry-proven EV batteries validated through millions of real world miles to ensure long life and inexpensive replacement costs
- Independent battery control improves reliability and performance
- No range degradation -40° to 120°F
- Over-the-air software updates for new features and functionality
- Narrow-body design offers easy vehicle maneuverability and safety
- Industry's largest view-out window reduces blind spots and enhances visibility
- Innovative structural design provides unparalleled safety and features a one-piece tubular roof bow design
- Collins exclusive external storage compartment

DE516 WRF
Passengers (16 + 1 wheelchairs)



DH516
Passengers (24 + 0 wheelchairs)



Motiv is the only Ford eQVM approved provider of all-electric chassis for school buses and benefits from engineering insights and support from Ford to ensure safety and reliability. With hundreds of thousands of miles logged among several of the largest fleet operators in the United States, the EPIC family eliminates 100% of vehicle emissions, dramatically reduces operating and maintenance costs, and creates a healthier environment for riders and communities while also reducing driver fatigue.



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