

uniqueEV[®]

TYPE C ELECTRIC SCHOOLBUS REPOWER



A uniqueEV[®] Repower:

- Converts your existing diesel bus to electric
- Costs less than half of a new electric bus
- Provides the same zero tailpipe emissions, clean, quiet, near-zero maintenance benefits
- Is eligible for many grants and incentives
- A faster, easier, cheaper way to go electric



Unique Electric Solutions has developed a field proven electric drivetrain solution called uniqueEV[®] that delivers like-new performance and range from existing vehicles. Repowering a bus with uniqueEV[®] is straightforward. Your existing on-road bus has its old dirty powertrain removed and replaced with new clean electric. The diesel engine, transmission, fuel tanks, mufflers, exhaust treatment systems and so on are removed and replaced with a high torque electric motor, batteries, and associated electronics. The result is your existing bus is converted to full electric with all the operational benefits of a new vehicle. Buses are typically repowered in less time than it takes to take delivery of a new vehicle. And drivers are immediately comfortable in the vehicle and enjoy the improved driving experience including increased power.

The UES uniqueEV[®] platform is designed for student and passenger transport on both urban and rural routes. The core system features a high torque electric motor with safe LFP batteries optimized for the duty cycle of electric school buses. Our flexible architecture enables us to configure battery packs for needed range, heat, AC, DC fast charging, and V2G for rapid and painless deployment.



Up to 80% reduction in fuel costs



Zero tailpipe emissions



Up to 70% reduction in maintenance costs



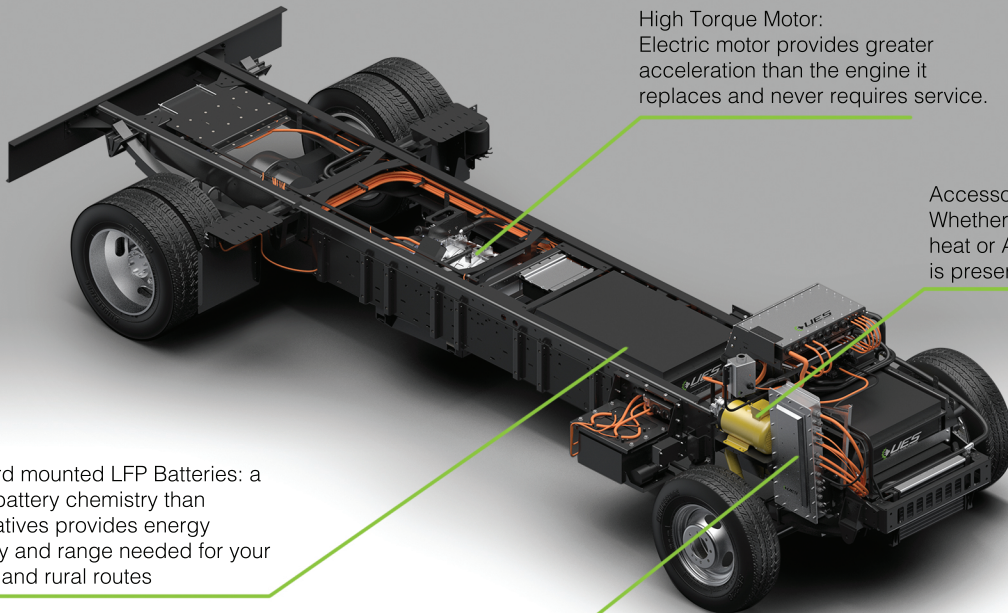
Lower total cost of ownership



Improved acceleration



Clean, quiet community friendly



High Torque Motor:
Electric motor provides greater acceleration than the engine it replaces and never requires service.

Accessory Power & Control:
Whether power steering, air brakes, heat or AC, all systems' functionality is preserved

Inboard mounted LFP Batteries: a safer battery chemistry than alternatives provides energy density and range needed for your urban and rural routes

Zero maintenance power and control electronics keep your truck on the road and out of the repair shop.

SPECIFICATIONS:

Battery Type	LiFePO
Battery Capacity	180kWhr (150kWhr usable)
Charging	SAE J1772 Level 2 DCFC optional
Charging Connector	CCS1 80/150A
Regenerative Braking	Yes
Motor Power	225kW peak (300hp)
Motor Torque	2800Nm peak (2050 lb-ft)
Heat	Electric or fuel fired**

AC	Optional **
Bus Brands	IC, Bluebird, Thomas
Dash	Digital panel
Brakes	Supports both hydraulic and air brakes
Telematics	Included
V2G Vehicle to grid	Included
Range	125 miles*

* Range dependent on drive cycle, driver behavior, accessories and HVAC usage

**CA-HVIP AC and electric heat included

ABOUT US:

Unique Electric Solutions (UES) is an electric vehicle drivetrain systems manufacturer for trucks and buses. Our uniqueEV® platform, a Class 4-7 all-electric propulsion system, can be deployed in both new production vehicle platforms as well as repowers of on-road medium and heavy duty trucks and buses for numerous applications such as school bus, package delivery, passenger transportation and terminal trucks. The uniqueEV® system is field proven including daily service with school bus and large commercial fleets such as UPS (United Parcel Service). The UES team has deep experience in helping fleets transition to clean, quiet and cost effective electric propulsion.