

uniqueEV[®]

CASCADIA ELECTRIC REPOWER



MODEL YEAR 2016 - 2025



A uniqueEV[®] Repower:

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



Unique Electric Solutions (UES) has developed a field-proven electric drivetrain solution called uniqueEV[®] that delivers like-new performance and range for existing commercial vehicles. Repowering buses and trucks with uniqueEV[®] is straightforward. The vehicle's old, polluting powertrain is removed and replaced with a clean, high-torque electric motor, batteries, and associated electronics. Diesel engines, transmissions, fuel tanks, mufflers, and exhaust treatment systems are eliminated, converting the vehicle to fully electric with the operational benefits of a new commercial vehicle. Repowering a commercial bus or truck typically takes less time than waiting for a new vehicle, and drivers quickly adapt, enjoying the increased power and improved driving experience.

The UES uniqueEV[®] platform is designed for a wide range of commercial applications, from passenger transport to freight and delivery services, on both urban and rural routes. The system features a high-torque electric motor paired with safe LFP batteries, optimized for the duty cycle of various commercial vehicles. Our flexible architecture allows battery configurations to meet specific needs for range, heating, air conditioning, DC fast charging, and vehicle-to-grid (V2G) capabilities, ensuring seamless and efficient deployment for all types of commercial buses and trucks.



Up to 80% reduction in fuel costs



Up to 70% reduction in maintenance costs



Improved acceleration



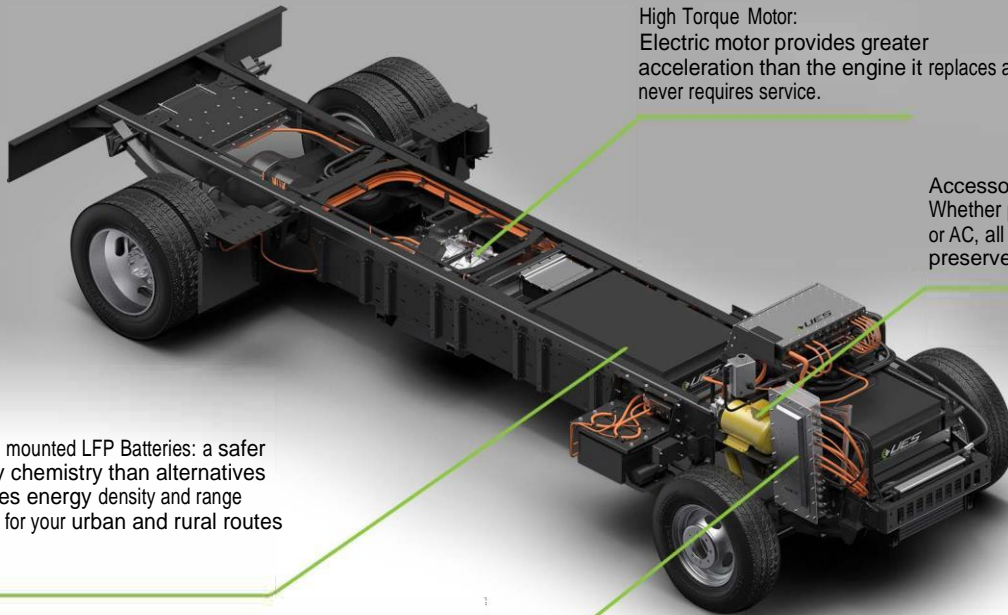
Zero tailpipe emissions



Lower total cost of ownership



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	240kWh
Charging	SAE J1772 Level 2 DCFC optional
Charging Connector	CCSI 80/150A
Regenerative Braking	Yes
GVWR	Up to 52,000 lbs
Motor Power	225kW peak
Motor Torque	2800 nm peak (up to 2050 lb-ft)

Heat	Electric or fuel fired ⁽¹⁾
AC	Optional ⁽¹⁾
Vehicle Brand	Freightliner
Dash	Digital panel
Brakes	Supports both hydraulic and air brakes
Telematics	Included
V2G Vehicle to grid	Optional
Range	Up to 200 miles

1) 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 4-8 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 buses 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.