

# All American **ELECTRIC** Technical Specifications



## Specification Highlights

|                          |  |
|--------------------------|--|
| <b>CAPACITY</b>          | Multiple floor plans available with passenger seating up to 84 |
| <b>EXTERIOR WIDTH</b>    | 96"  |
| <b>INTERIOR WIDTH</b>    | 90 3/4"  |
| <b>AISLE WIDTH</b>       | Varies by floor plan   |
| <b>SKIRT LENGTH</b>      | 25 3/4"  |
| <b>INTERIOR HEADROOM</b> | 77"  |
| <b>OVERALL HEIGHT</b>    | 124"   |
| <b>WHEELBASE</b>         | 245" / 259" / 273"   |
| <b>BATTERIES</b>         | 155 kWh Li-ION NMC/ G cell                                     |
| <b>ENTRANCE DOOR</b>     | 32" wide x 81" high / double "full view" outward opening       |
| <b>PROPULSION SYSTEM</b> | Cummins PowerDrive 7000  |
| <b>MOTOR</b>             | TM4® SUMO™   |

|                   |   |
|-------------------|---|
| <b>TIRE SIZE</b>  | 11R22.5 (G)   |
| <b>BRAKES</b>     | Air brakes 6" front and 7" rear   |
| <b>SUSPENSION</b> | Front - 13,000 lb. parabolic springs<br>Rear - 23,000 lb. leaf springs          |
| <b>STEERING</b>   | Tilting/telescoping steering  |
| <b>FRONT AXLE</b> | 13,200 lb.  |
| <b>REAR AXLE</b>  | 23,000 lb.  |
| <b>WHEEL CUT</b>  | 50°   |
| <b>GVWR</b>       | Up to 36,000 lb.  |
| <b>MILES PER</b>  | Up to 120 miles   |
| <b>CHARGE</b>     | Standard CCS1 connector with AC and DC  |
| <b>RECHARGE</b>   | Fast Charging capabilities:   |
| <b>TIME</b>       | - Level 2 charging in approx. 8hrs<br>- Level 3 (DCFC) charging in approx. 3hrs |



# Technical Specifications

## Chassis

- 100,000 psi steel frame rails 10 1/8" high x 3" flanges x 1/4" thick
- Cummins PowerDrive 7000 propulsion system, Utilizing an electric motor, 315 peak horsepower, 2,400ft-lbs peak torque
- 155 kWh Lithium ion NMC/G cell between frame rails
- 620 Nominal Voltage
- Up to 120 miles per charge dependent on drive cycle, driver behavior, accessories and HVAC usage
- 11R22.5 (G) tires
- Large, easy to read gauges
- 13,200 lb. front axle with parabolic spring suspension
- 23,000 lb. rear axle with leaf spring suspension
- Rubber coolant hoses
- Anti-lock brakes
- Air brake system
- 12" steel front bumper
- Tilting/telescoping steering column
- Group-31 12v battery
- "Huck Spin" fasteners on all permanent frame fixtures

## Durability

- All parts are pre-primed or thoroughly rust-proofed after fabrication and before assembly
- Entire underbody (body skirt and floor) is undercoated before mounting on chassis
- Exterior surfaces are painted with heat-cured polyurethane
- Interior surfaces are painted with high-quality, hotsprayed, baked-on enamel
- 1/8" Smooth black rubber flooring, 3/16" ribbed rubber aisle
- Rubber cooling hoses
- Rubber molded wheelhouse
- "Huck Spin" frame fasteners

## Comfort & Convenience

- 77" headroom at aisle, front to rear
- 12" Split-sash, tempered windows
- Tinted windshield
- 90,000 btu front heater and defroster
- Full "panoramic" cockpit view
- Full body insulation
- Acoustic headlining (Driver's section)
- Efficiency meter

## Strength

- 14-gauge steel, hat shaped posts and roof bows
- 16-gauge, channeled interior steel window headers
- Riveted and welded construction
- Four full-length, 16-gauge exterior side rub rails
- 20-gauge fluted exterior side panels
- 22-gauge interior galvalume side panels
- 14-gauge steel floor panels
- 100,000 psi steel chassis frame, 1/4" thick with permanent fixtures and attached with "Huck Spin" fasteners

## Safety

- 4-wheel anti-lock brakes
- Single halogen headlights
- Driver's three-point seat belt with adjustable 7 1/2" pillar loop
- Outward-opening entrance door
- Flat and convex rearview mirrors
- Crossview mirrors
- Electric horn with high and low note
- Blue Bird's unitized construction of the passenger compartment
- 15" steel front bumper, 12" steel rear bumper
- Suspended brake and accelerator pedals with optimized spacing
- Certified to Colorado Rack and Load and Kentucky Pole testing
- Sound generator enabled with speeds less than 20mph

## Serviceability

- Wiper motors mounted behind hinged panel for easy access
- Easy access to front headlights
- Body wiring terminal is easily accessible through exterior electrical compartment
- Wiring is color coded and continuously numbered for easy identification
- Fused circuit protection
- Grease fittings on emergency door hinges
- Easy-opening, outward opening entrance door; features long-lasting, oil-impregnated, bronze pivotal bearings
- All Lights equipped with plug in connectors

## Driver Ergonomics

- Power steering with tilting/telescoping column
- Large, easy to read gauges
- Backlit, easy to reach switch panel with rocker switches
- Electric, intermittent, single switch windshield wipers
- 3-point seat belt with 7 1/2" vertical adjustment
- Fully adjustable driver's seat
- Wraparound dash

## Optional Features

- Front and rear air ride suspension available on 259" and 273" wheelbase only
- Roof or skirt mounted HV self contained A/C
- Wheelchair lift is available as right side mid mount only
- Driver side tool compartment
- Driver side mid-mount luggage compartment
- Stepwell area heater, front of bus heaters and rear bus heaters

## Optional Features

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- Wheelchair lift is available as right side mid mount only
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## Dimensions

|                    |                   |
|--------------------|-------------------|
| Headroom           | 77"               |
| Width Exterior     | 96"               |
| Width Interior     | 90 3/4"           |
| Skirt Length       | 25 3/4"           |
| Overall Length     | 393" - 477"       |
| Overall Height     | 124"              |
|                    | excluding options |
| Wheelbase/         | 245" = 78         |
| Passenger Capacity | 259" = 81         |
|                    | 273" = 84         |

