

# Vision **ELECTRIC** Technical Specifications



## Specification Highlights

<b>CAPACITY</b>	Multiple floor plans available with passenger seating up to 77
<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>	123"
<b>WHEELBASE</b>	252" / 273"
<b>BATTERIES</b>	155 kWh Li-ION NMC/ G cell
<b>ENTRANCE DOOR</b>	27" wide x 78" 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 5" front and 7" rear, optional hydraulic brakes
<b>SUSPENSION</b>	Front - 10,000 lb. parabolic springs Rear - 23,000 lb. leaf springs
<b>STEERING</b>	Tilting/telescoping steering
<b>FRONT AXLE</b>	10,000 lb.
<b>REAR AXLE</b>	23,000 lb.
<b>WHEEL CUT</b>	50°
<b>GVWR</b>	Up to 33,000 lb.
<b>MAXIMUM RANGE</b>	Up to 130 miles
<b>RECHARGE TIME</b>	Standard CCS1 connector with AC and DC Fast Charging capabilities: - Level 2 charging in approx. 8hrs - 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
- 10,000 lb. front axle with 10,000 lb. parabolic spring suspension
- 23,000 lb. rear axle with leaf spring suspension
- Rubber coolant hoses
- Anti-lock brakes
- 15" 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, hot-sprayed, 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
- Rigid 16-gauge steel roof longitudinal internal structural members
- 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 with 1,350 square-inch tempered safety glass
- Best driver's line of sight in the school bus industry for a Type C product
- 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
- 8.25 x 22.5 Disc, hub-piloted steel wheels
- Certified to Colorado Rack and Load and Kentucky Pole testing
- Sound generator enabled with speeds less than 20mph
- Electronic Stability Control
- Backup camera integrated into driver's rearview mirror

## Driver Ergonomics

- "Best-in-class" driver visibility
- 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

- Extended range battery
- Hydraulic brakes
- Front and rear air ride suspension
- Roof or skirt mounted HV self contained A/C
- Wheelchair lift
- Tool compartment
- Mid-mount luggage compartment
- Auxiliary fuel-fired heater
- Stepwell area heater, front of bus heaters and rear bus heaters
- Battery insulation

## Serviceability

- Chassis multiplex wiring
- Large work space under hood
- Easy hood assist
- 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
- Body wiring is encased in "easy to access" ABS molding above passenger windows

## 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/	252" = Up to 66
Passenger Capacity	273" = Up to 77

