

# Micro Bird G5e 140 and 175

## Electric School Bus



**MICRO BIRD**  
by *GIRARDIN*



Range Up to  
200 Miles (320 Km)



One Pedal Driving /  
Regenerative Braking  
System



Optimized Fleet  
Management with Live  
Telematic Dashboard



Vehicle to  
Grid Technology  
Capable



Smart Vehicle  
(Cabin and Battery  
Pre-Conditioning)



Lithium Iron  
Phosphate (LFP)  
Batteries



# Micro Bird G5e 140 and 175 Electric School Bus



**MICRO BIRD**  
by *GIRARDIN*



POWERED BY  
**ecotuned**  
TECHNOLOGIES

## OPTIONS

- Audio/P.A. systems
- Back-up sensors
- Aluminum Bumper
- Driver side auxiliary step
- Child Check System
- Optional A/C options
- Integrated child seats
- Lap and shoulder belt seating
- Remote heated mirrors
- Wheelchair and occupant restraint system

And many more...

BODY DIMENSION		FORD	
MODEL		AMBULATORY	LIFT BUS
MAX PASSENGER CAPACITY		30	18+1
EXTERIOR LENGTH OVERALL		283"	283"
EXTERIOR WIDTH OVERALL		96"	96"
EXTERIOR HEIGHT OVERALL		113"	118"
INTERIOR FLOOR LENGTH		177"	177"
INTERIOR WIDTH AT HIP		93"	93"
INTERIOR HEIGHT AT CENTER LINE		76"	76"
ENTRANCE DOOR		32" X 77"	32" X 82"
SIDE WINDOWS		35" X 30"	35" X 30"
CHASSIS			
WHEELBASE		158"	
GVWR		14 500 LBS	
ELECTRIC DRIVE TRAIN			
MAXIMUM SPEED		75 MPH (120KM/H)	
AUTONOMY 140 KWH		150 MI (240 KM)	
AUTONOMY 175 KWH		200 MI (320 KM)	
POWER		335 HP (250 KW)	
TORQUE		1420-FT-LBS (1926 NM)	
GRADEABILITY		25%	
BATTERY			
TYPE		LITHIUM IRON PHOSPHATE (LFP)	
NOMINAL VOLTAGE		600 VOLTS NOMINAL	
CHARGING PORT		SAE J1772 CCS TYPE 1	
CHARGING (100%)			
		140KWH	175KWH
LEVEL 2		7HOURS	9HOURS
LEVEL 3		LESS THAN 1.5H (0-80%)	LESS THAN 1.5H (0-80%)
MAXIMUM CHARGE RATE		100 KW	100 KW
WARRANTY			
ELECTRIC BATTERY		8 YEARS / 100 000 MILES (160 000 KM)	
POWERTRAIN AND ELECTRIC POWER SYSTEMS		5 YEARS / 60 000 MILES (100 000 KM)	
BODY		1 YEAR / 12 000 MILES (20 000 KM)	
STRUCTURE		5 YEARS LIMITED	

A WIDE RANGE OF CONFIGURATIONS TO BETTER ACCOMMODATE YOUR NEEDS.

Specifications shown in this brochure were in effect at the time of printing. In keeping with its policy of continual improvement Micro Bird Inc. reserves the right to change specifications without incurring obligations.

**MICRO BIRD,**  
**THE LEADER IN THE INDUSTRY**  
WWW.MICROBIRD.COM



**MICRO BIRD**  
by *GIRARDIN*

# 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 196 kWh Li-ION NMC
<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

