

Technical Specifications of the *Eco-Line*

	<i>Eco-Shuttle</i> Electric	<i>Eco-Shuttle</i> Hybrid-Electric	<i>Eco-Bus</i> Electric *	<i>Eco-Bus</i> Hybrid-Electric *
Dimensions				
Length	22'	22'	30'	30'
Width	96"	96"	98"	98"
Height	105"	105"	112"	112"
Wheelbase	144"	144"	207"	207"
Entrance Height	12"	12"	14.25"	14.25"
Turning Radius	25'	25'	22'/29'	22'/29'
Weights				
Curb	12,700 lbs	12,700 lbs	23,000 lbs	23,000 lbs
GVWR	15,400 lbs	15,400 lbs	31,000 lbs	31,000 lbs
Capacity				
Seated	18-22 seats	18-22 seats	27 seats	27 seats
Standing	10 pass	10 pass	18 pass	18 pass
Total	28-32 pass	28-32 pass	45 pass	45 pass
Wheelchair	1 position	1 position	2 position	2 position
Performance				
Motor Power	75kW	75kW	150kW	150kW
Motor Power	100 hp	100 hp	200 hp	200 hp
Engine Size	n/a	2.2 L	n/a	3.8 L
Top Speed	55 mph	55 mph	55 mph	55 mph
Gradability	12 %	12 %	12%	12%
Acceleration	<White Book	<White Book	<White Book	<White Book
Range **	60-80	250 miles	180 miles ***	250 miles
Fast Charge	1 mi/minute	1 mi/minute	1 mi/minute	1 mi/minute
Plug-in	yes	yes	yes	yes

* Technical Specifications for the *Eco-Bus* based on a 30-foot bus.

** Mileage is dependant on battery chemistry, fuels used (hybrid) and operator performance

*** Range achieved only through use of Zebra high-temperature nickel-sodium (Ni-Na) technology

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...a Chattanooga Tennessee *clean transportation* company

The *Eco-Line*

A family of electric and hybrid-electric vehicles for a cleaner and more energy secure future!



The **Eco-Line**....clean, reliable, and efficient electric and hybrid-electric vehicles that provides numerous advanced technology choices for public transit systems, national parks, fleet operations....anyone dedicated to providing public transportation.

Through manufacturing and partnerships, **evAmerica** is able to provide a large range of vehicles, from delivery vans, trams and shuttle buses to full size replicate trolleys and full size transit buses. Although the vehicles may be different, they all share some commonality...

Efficient

Every **Eco-Line** vehicle is propelled by the **Aviro-Drive³**; the most efficient and reliable electric and hybrid-propulsion system available. The **Aviro-Drive³** utilizes heavy-duty "off-the-shelf" air-cooled industrial components which are all commercially available and integrated for motor vehicle applications, and are easy to repair or replace.



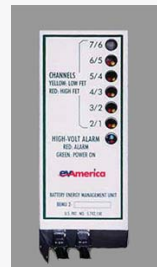
Simple

Every **Eco-Line** vehicle is manufactured with proven "transit" parts, helping both repairs and replacements. **evAmerica's** on-board data acquisition system, standard in all vehicles, helps operators minimize time spent on trouble shooting while providing management personnel with detailed operational data that can help maximize performance.



Reliable

Every **Eco-Line** vehicle includes **evAmerica's** battery management system, the **BMS-2**. The **BMS-2** increases battery life and performance by ensuring that individual batteries in a string are charged and discharged in unison and can be used in any application which requires a number of battery modules.



Tested

Every **Eco-Line** vehicle is thoroughly tested by **evAmerica** and its partners prior to delivery to ensure that all systems and sub-systems are operating as expected. All new models are tested by the Advanced Technologies for Transportation Research Program at the University of Tennessee in Chattanooga's dedicated test facility.



The Eco-Shuttle

The **Eco-Shuttle** is a purpose-built bus that is perfect for downtown and campus shuttles, neighborhood and community circulators, national park service, airport and amusement park transports, and any other application where a small, versatile bus is needed. The **Eco-Shuttle** comes in both electric and hybrid-electric models.



The **Eco-Shuttle** is a 22-foot electric or hybrid-electric bus that is designed for shuttle applications. The electric model (ESE) can achieve a range up to 100 miles and is capable of rapid-recharge. The hybrid-electric model (ESH) utilizes **evAmerica's Aviro-Drive³** propulsion system and can provide extended range with an all-electric option.

Built on a monocoque chassis for strength and appearance, the **Eco-Shuttle** is quiet, safe and reliable. The low-floor design is ADA compliant and makes access easy and safe for all customers. The **Eco-Shuttle** includes a kneeling feature that, along with an easy flip-out ramp, makes wheelchair access convenient and fast.

The **Eco-Shuttle** seats 18 - 22 passengers and provides a convenient location for one-wheelchair.

Utilizing **evAmerica's BMS-2**, the **Eco-Shuttle** operates effectively on low-cost sealed lead-acid batteries; eliminating the need for watering or cleaning...or expensive advanced technology batteries.

In addition to a transit style bus, the **Eco-Shuttle** comes in a vintage trolley design.

The Eco-Bus

The **Eco-Bus** is a heavy-duty, low-floor electric or hybrid-electric transit bus that is perfect for providing transportation service to urban corridors and residential neighborhoods in a clean, quiet and unobtrusive manner...making the **Eco-Bus** bus popular with community representatives, riders and non-riders alike.



The **Eco-Bus** is a heavy-duty, low-floor electric or hybrid-electric transit bus. The electric model (EBE) utilizes advanced technology batteries for superior zero-emission operation. The hybrid-electric model (EBH) utilizes the **Aviro-Drive³** propulsion system and can operate 15-minutes each hour on battery power only.

The **Eco-Bus** can be easily scaled in length from 26-feet to 36-feet and in width from 96-inches to 102-inches to provide transit operators with significant flexibility in vehicle size. The **Eco-Bus** is easy to operate and simple to maintain. The sleek design provides ample window area while enabling easy access to vehicle components. In addition to conventional controls and instrumentation, a driver display panel is provided via which drive and charge control status are reported to the operator and maintenance staff.

The electric model **Eco-Bus** is designed to utilize Zebra battery technology, providing acceleration and hill climbing equivalent to diesel buses. As important, the battery and powertrain systems deliver full performance at extreme ambient temperatures. With interlocks on all high-voltage cabinets, safety is fully integrated into the buses. The **Eco-Bus** meets all ADA requirements and has two-wheelchair positions.



for additional information on the Eco-Line, please visit us at www.evamerica.us