



J4500 CHARGE™

Zero-emission
battery-electric coach.



The J4500 CHARGE™ brings all-electric capability to the industry's best seller in tour, charter, and employee shuttle markets.

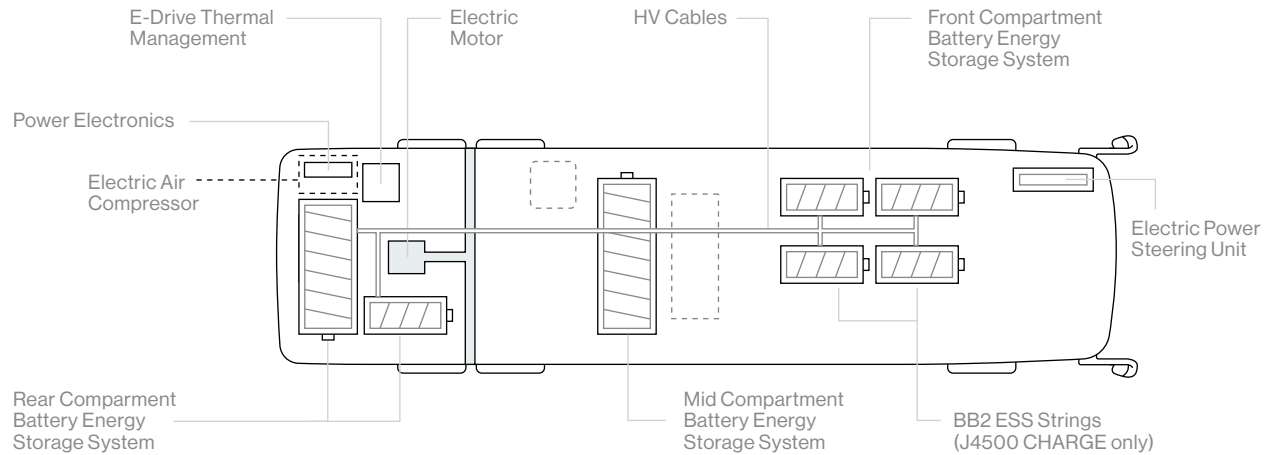
With electrically driven components and MCI's smooth riding suspension, these highway coaches can instantaneously accelerate and power through the steepest road grades while providing a quiet comfortable ride for passengers.



How it works.

The J4500 CHARGE™ uses an electric motor powered by energy stored in rechargeable batteries.

The J4500 CHARGE™ electric platform is supported by New Flyer's 50 years of zero-emission propulsion experience and leverages NFI Infrastructure Solutions™, a service dedicated to providing safe, sustainable, and reliable charging solutions.



Benefits



A 3320 ft-lbs high-torque Siemens electric drive system designed to handle long-distance applications and highway speeds.



Energy-dense nickel manganese cobalt (NMC) lithium ion batteries with high-power plug-in charging from empty to full in under 4 hours.



Range: 230+ miles.



Regenerative braking, capturing kinetic energy to recharge the battery system, making for highly efficient driving in start-stop traffic conditions.



MCI

NFI Infrastructure Solutions™

NFI Infrastructure Solutions™ is a service dedicated to providing safe, reliable, smart and sustainable charging and mobility solutions. Learn what NFI Infrastructure Solutions™ can do for you at nfigroup.com/IS

What our Infrastructure Solutions team provides.



Supports mobility projects from start to finish.



Provides infrastructure planning and development.



Focuses on energy management optimization.



Provides cohesive transition of coach fleets to zero-emission electric technology.

Charging.

MCI battery-electric models comply with SAE J1772 standards. You can customize your Energy Storage Systems (ESS) and charging solutions so you can develop the right ESS and infrastructure solution for your needs.

The J4500 CHARGE™ is interoperable with charging systems available from: Siemens, ABB, Chargepoint, Heliox.

SIEMENS

ABB

-chargepoint+

heliox



Plug-In Charging

Depot charging reduces infrastructure cost, complexity, and battery degradation. Plug-in chargers can be used for overnight, mid-day, and on-route charging.

The J4500 CHARGE™ has a range of 230+ miles (544 kWh)* on a single charge, but with on-route charging, range is unlimited. *Range is dependent on duty cycle

ESS(kWh)	Range	Charge Time
544	240	< 4 hrs



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CONNECT 360™

Connect 360™, operated by NFI Connect™, is a customizable performance dashboard that provides smart analytic reporting to expand insight and intelligence for managing your battery-electric coaches.



Additional range capability with improved driver performance.



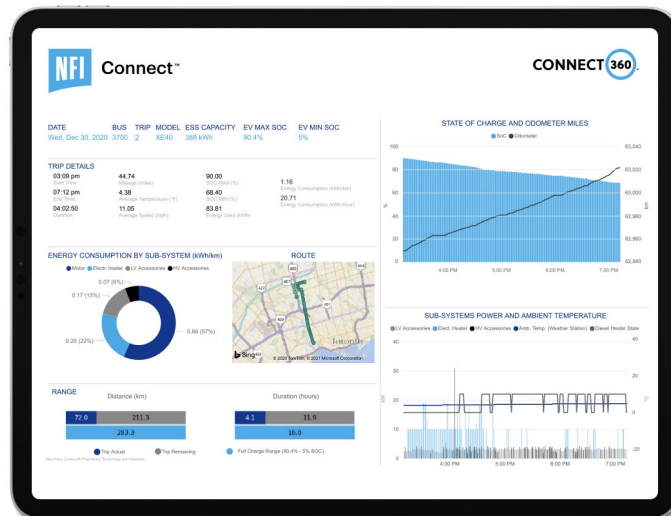
Intelligence on how to preserve battery energy throughout the day.



Decision-making information to optimize charging strategies.



Reduced operating cost and maximum fleet utilization.



Connect 360™ is included on every new battery-electric coach. Learn more at nfigroup.com/connect

Reliable service and support.

MCI service and support delivers a relationship-driven and responsive approach to customer care.



Comprehensive support that includes in-field expertise, technical call center and 24/7 roadside assistance.



Ongoing technical training from the industry's only Automotive Service Excellence (ASE) accredited MCI Academy technician training center.



Customizable programs to fit your financial needs through NFI Financial Solutions™.



On-the-go support with MCI Operator's App and MCI Companion App.



MCI Service Center - from routine maintenance and warranty to complex troubleshooting, you'll find all the help you need.



Aftermarket parts support from NFI Parts™, the industry's largest parts supplier.

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MCI model specification highlights.

J4500 CHARGE™

Body

Length	45.58'	13.80 m
Width	102.0 "	2.59 m
Roof Height	140.75"	3.58 m
Tire Size	315/80 R22.5	
Approach Angle	9.5°	
Breakover Angle	8.8°	
Construction	Semi-Monocoque low-corrosion stainless steel frame	
Body Material	Fiberglass composite	

Propulsion System

Motor	Siemens
Rated Power	260 kW
Maximum Torque	3320 ft-lbs
Transmission/Gearbox	4.7 gear ratio direct drive

Energy Storage System

Battery Type	63 Ah NMC lithium ion Ultra-High Energy cell by XALT
Battery Capacity	544 kWh
Usable SoC	85+%
Battery Recycling Available	Yes

Charging Plug-In

Charge Rate (kW)	150+
Charge Time (5% to 95%)	< 4 hrs
Plug / Adapter / Interface	CCS 1
Number of Charge Ports	1
Location(s) of Charge Ports	Rear curbside
EVSE Type (AC or DC)	DC
EVSE Supply Voltage	150 - 850 VDC
EVSE Maximum Charge Current	200 A
EVSE Mounting Type	Wall/cabinet
EVSE IP Rating	IP 54
EVSE Smart Charging Capabilities	Available
EVSE Manufacturers Certified for Use	All SAE J1772-compliant manufacturers
EVSE Buy America Compliant Manufacturer	No

MCI model specification highlights.

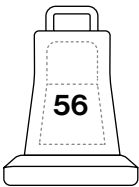
Performance

Nominal Range (estimated low to heavy usage)	J4500 CHARGE™	
	163 - 233 miles	262 - 375 km
Top Speed	72 mph	116 kph
Meets or exceeds APTA gradeability requirement	10% Grade: 15 mph 24 kph 2.5% Grade: 40mph 64 kph	

Weight

Curb Weight (estimated)	~45,000 lbs	20,500 kg
Gross Vehicle Weight Rating	54,000 lbs	24,494 kg
Gross Axle Weight Rating – Front	17,000 lbs	7,711 kg
Gross Axel Weight Rating – Rear	Drive: 24,000 lbs Tag: 16,500 lbs	10,886 kg 7,484 kg

Passenger Capacity



Warranty

Vehicle	24-month limited warranty including 12-year structural warranty, unlimited mileage
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MCI J4500™

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VIC | VEHICLE INNOVATION CENTER

Learn more about this technology at the Vehicle Innovation Center
nfigroup.com/vic