

D45 CRT CHARGE™ + D45 CRT LE CHARGE™

Zero-emission battery-electric commuter coaches



The D45 CRT CHARGE™ and the all-accessible D45 CRT LE CHARGE™ battery-electric

highway coaches offer long range, high capacity, real-time performance analytics and unparalleled accessibility.

With electrically driven components and MCl's smooth riding suspension, passengers will experience a clean, quiet, and comfortable ride while powering through the steepest road grades.

Models.

Two models to choose from to meet your needs.

Both models share the same electric platform supported by New Flyer's 50 years of zero-emission propulsion experience and NFI Infrastructure Solutions™, a service dedicated to providing safe, sustainable, and reliable charging solutions.



D45 CRTCHARGE

Brings all-electric capability to the legendary high-floor commuter transit workhorse, now modernized with next generation innovation and style.



D45 CRT LE CHARGE

Features a revolutionary patented low-entry (LE) vestibule with a seating area and ramp that significantly improves dwell times as well as the boarding and ride experience for all passengers, including those with mobility challenges.



A 45-foot electric coach can avoid 80+ metric tons of greenhouse gas (GHG) annually.

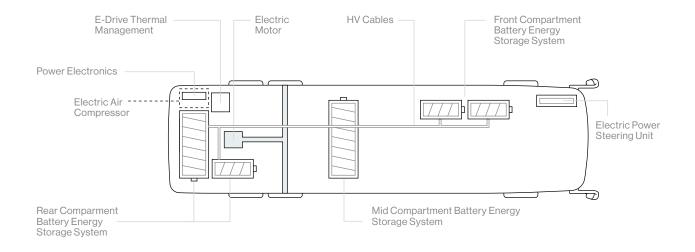
The leader in green transportation.

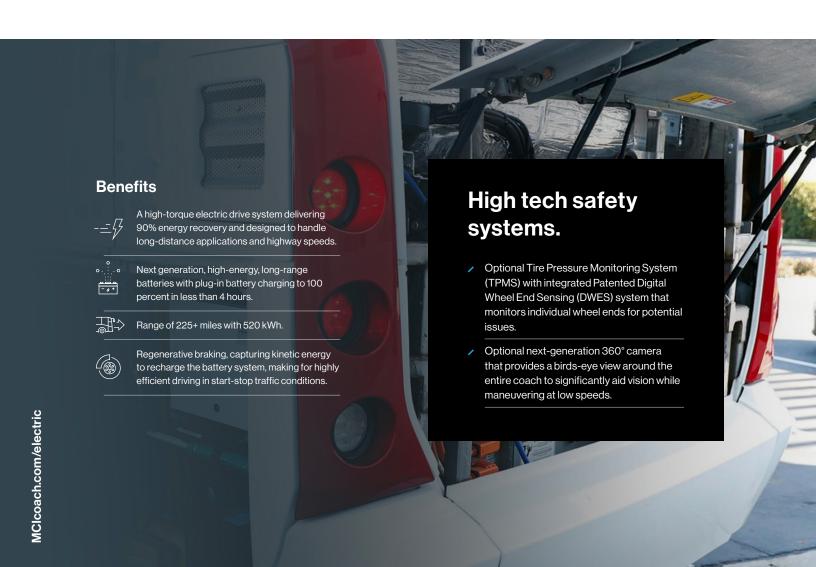
In the last two decades alone, New Flyer has expanded in three categories of zero-emission buses — battery-electric, trolley-electric, and hydrogen fuel cell-electric — along with the widest range of charging options.

As part of NFI, MCI has leveraged this impressive history of electric-driven innovation and expertise into our electric coach product line, which makes us your best partner in battery-electric propulsion.

How it works.

The D45 CRT CHARGE™ and D45 CRT LE CHARGE™ use an electric motor powered by energy stored in rechargeable batteries.





NFI Infrastructure Solutions

NFI Infrastructure Solutions[™] is a service dedicated to delivering safe, reliable project management for smart, sustainable, zero-emission mobility. Learn what NFI Infrastructure Solutions[™] can do for you at mcicoach.net/IS

What our Infrastructure Solutions team provides.



Project management of zeroemission mobility projects.



Infrastructure planning and development.



Maximization of energy and fuel transfer and usage



Support for all NFI North American electric bus deployments.

Charging.

MCI battery-electric models comply with SAE J1772 standards.

The D45 CRT CHARGE™ and D45 CRT LE CHARGE™ are interoperable with charging systems available from: Power Electronics, ABB, Chargepoint, Heliox.





heliox

-chargepoin+:





Plug-In Charging

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

The D45 CRT CHARGE™ and D45 CRT LE CHARGE™

have a range of 225+ miles (520 kWh)* on a single charge. *Range is dependent on duty cycle

Bottom Charge	Top Charge Charge Time			
0%	100%	< 4 hrs		
30%	80%	> 2 hrs		



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.



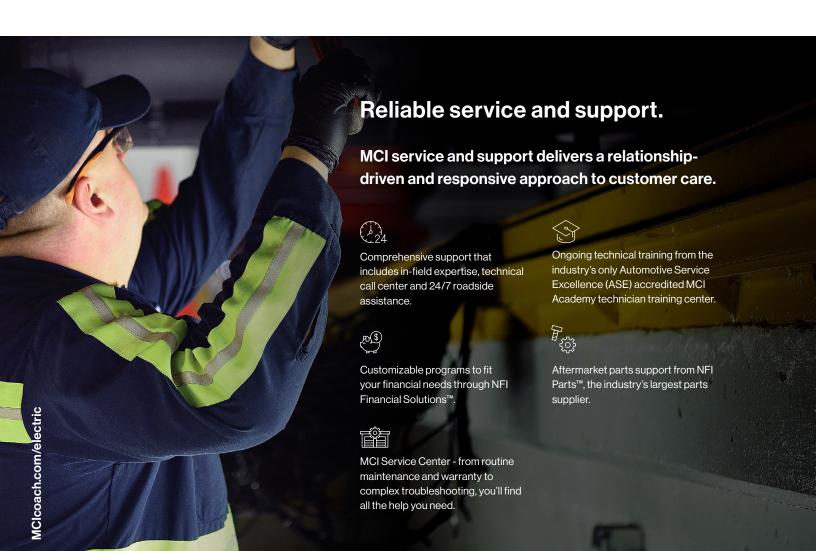
Decision-making information to optimize charging strategies.



Reduced operating cost and maximum fleet utilization.

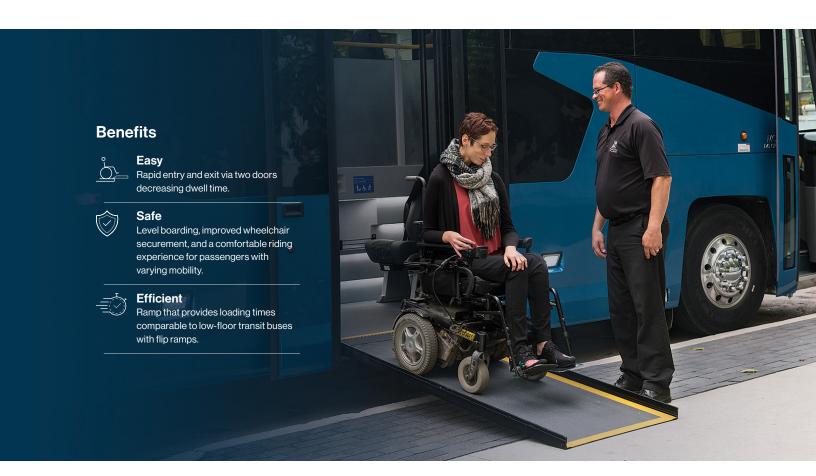


Connect 360™ is included on every new battery-electric coach. Learn more at mcicoach.com/connect



Accessibility at a whole new level.

Developed with accessibility in mind, the electric D45 CRT LE CHARGE™ features a revolutionary patented low-entry vestibule, and a seating area and ramp that significantly improve the boarding and ride experience for passengers with mobility needs.



Standard Mid-Coach Lift

The D45 CRT CHARGE™ comes standard with a mid-coach Braun wheelchair lift.



MCI model specification highlights.

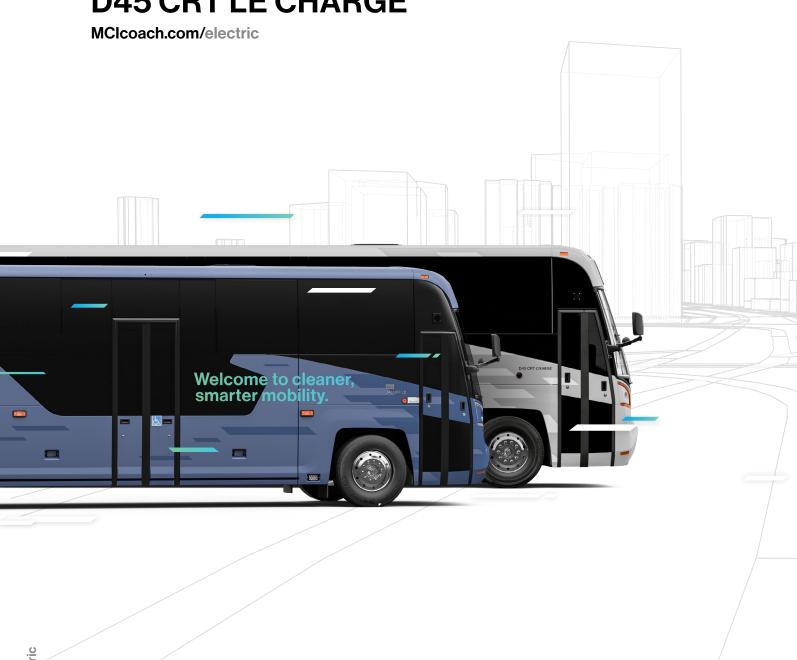
D45 CRT CHARGE™		D45 CRT LE CHARGE™	
45.82'	13.72m	45.82'	13.72m
102"	2.59m	102"	2.59m
138.6"	3.51m	138.6"	3.51m
315/80 R22.5		315/80 R22.5	
7.5°		7.5°	
8.2°		8.2°	
Semi-monocoque low- corrosion stainless-steel frame		Semi-monocoque low- corrosion stainless-steel frame	
Fiberglass composite		Fiberglass composite	
Accelera™ by Cummins		Accelera™ by Cummins	
320 kW		320 kW	
4800 Nm		4800 Nm	
4.7 gear ratio direct drive		4.7 gear ratio direct drive	
NMC lithium ion Ultra-high energy		NMC lithium ion Ultra-high energy	
520 kWh		520 kWh	
89%		89%	
89% Yes		89% Yes	
Yes		Yes	
Yes 150+		Yes 150+	
Yes 150+ <4 hrs		Yes 150+ <4 hrs	
Yes 150+ <4hrs CCS1		Yes 150+ <4 hrs CCS1	
150+ <4 hrs CCS1 1		Yes 150+ <4 hrs CCS1	
Yes 150+ <4 hrs CCS1 1 Rear curbside		Yes 150+ <4 hrs CCS1 1 Rear curbside	
	45.82' 102" 138.6" 315/80 R22.5 7.5° 8.2° Semi-monocoq corrosion stainl Fiberglass com Accelera™ by C 320 kW 4800 Nm 4.7 gear ratio did	45.82' 13.72m 102" 2.59m 138.6" 3.51m 315/80 R22.5 7.5° 8.2° Semi-monocoque low-corrosion stainless-steel frame Fiberglass composite Accelera™ by Cummins 320 kW 4800 Nm 4.7 gear ratio direct drive	45.82′ 13.72m 45.82′ 102″ 2.59m 102″ 138.6″ 3.51m 138.6″ 315/80 R22.5 7.5° 7.5° 8.2° Semi-monocoque low-corrosion stainless-steel frame Fiberglass composite Fiberglass composite Accelera™ by Cummins Accelera™ by Cummins 320 kW 4800 Nm 4800 Nm 4.7 gear ratio direct drive 4.7 gear ratio direct drive NMC lithium ion Ultra-high energy

MCI model specification highlights.

	D45 CRT CHARGE™		D45 CRT LE CHARGE™	
Performance				
Nominal Range (estimated low to heavy usage)	156 - 250 miles	251 - 402 miles	156 - 250 miles	251 - 402 km
Top Speed	72 mph	116 kph	72 mph	116 kph
Meets or exceeds APTA gradeability requirement	10% Grade: 30 mph	48 kph	10% Grade: 30 mph	48 kph
	2.5% Grade: 55 mph	88 kph	2.5% Grade: 55 mph	88 kph
Weight				
Curb Weight (estimated)	43,000 lbs	19,500 kg	44,500 lbs	20,200 kg
Gross Vehicle Weight Rating	54,000 lbs	24,494 kg	54,000 lbs	24,494 kg
Gross Axle Weight Rating - Front	17,000 lbs	7,711 kg	17,000 lbs	7,711 kg
Gross Axel Weight Rating – Rear	Drive: 23,000 lbs Tag: 16,500 lbs	10,432 kg 7,484 kg	Drive: 23,000 lbs Tag: 16,500 lbs	10,432 kg 7,484 kg
Passenger Capacity	57			
Warranty				
Vehicle	24-month limit	ed warranty	24-month limit	ed warranty



D45 CRT CHARGE™ + D45 CRT LE CHARGE™



VIE | VEHICLE INNOVATION CENTER

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