

D45 CRT CHARGE™ & D45 CRT LE CHARGE™

Zero-emission battery-electric commuter coaches



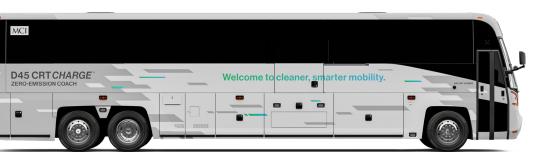
The new D45 CRT CHARGE™ and the allaccessible D45 CRT LE CHARGE™ batteryelectric highway coaches offer long range, high capacity, real-time performance analytics and unparalleled accessibility.

With electrically driven components and MCI'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 vour customer's 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 approximately 80 metric tons of greenhouse gas (GHG) annually.

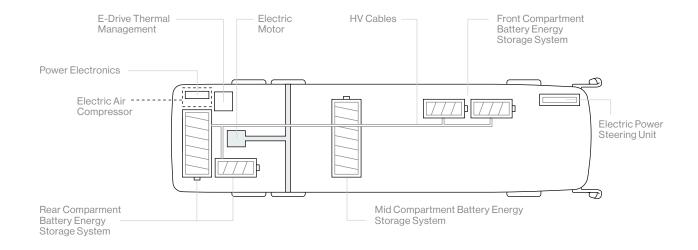
The leader in green transportation.

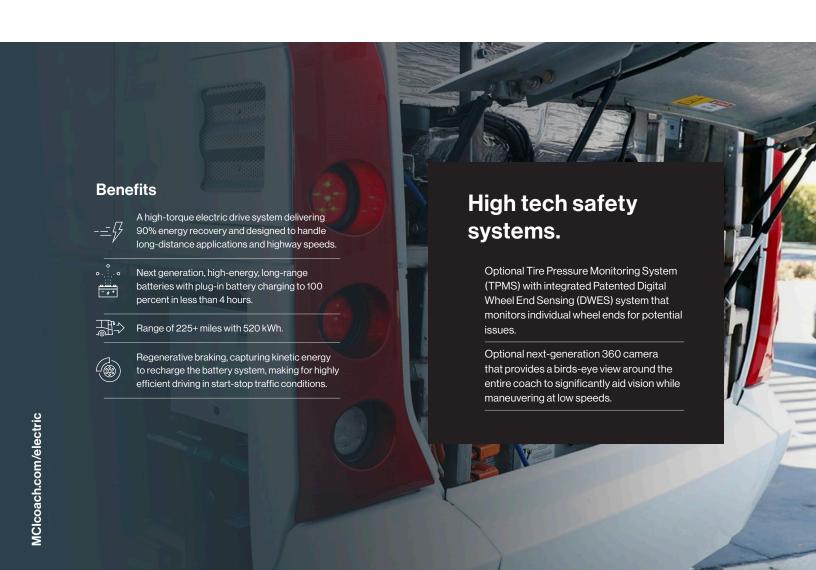
In the last two decades alone, New Flyer has expanded in three categories of zero-emission buses — battery-electric, trolley-electric, and hydrogen fuel cell-electric — along with the widest range of charging options.

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 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.

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

SIEMENS ABB

-chargepoin+: heliox





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.



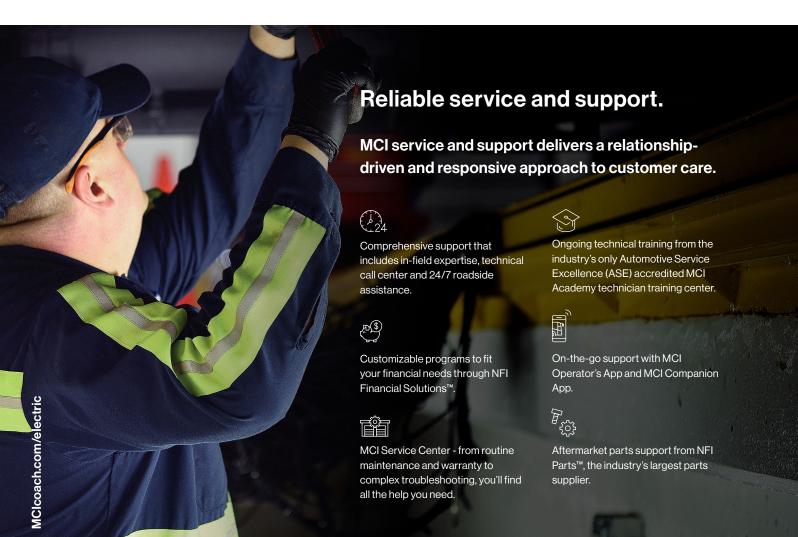
Decision-making information to optimize charging strategies.



Reduced operating cost and maximum fleet utilization.

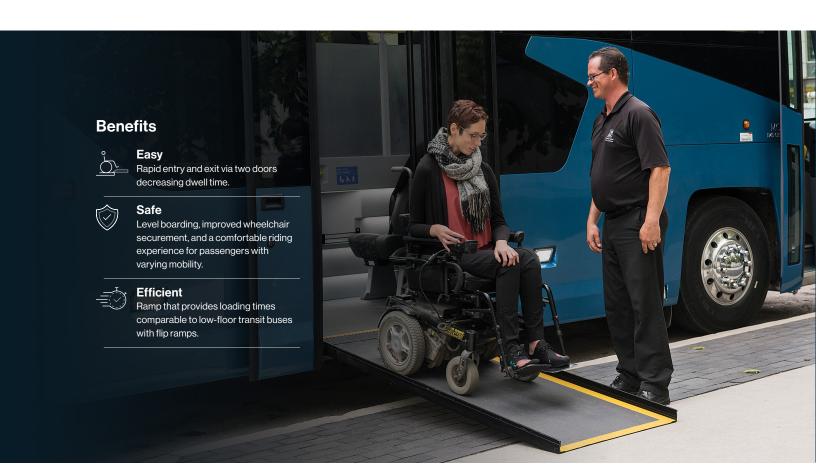


Connect 360° is included on every new battery-electric coach. Learn more at **nfigroup.com/connect**



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™	
Body			
Length	45.83' 13.72 m	45.83' 13.72 m	
Width	102" 2.59 m	102" 2.59 m	
Roof Height	138.6" 3.51 m	138.6" 3.51 m	
Tire Size	315/80 R22.5	315/80 R22.5	
Approach Angle	7.5°	7.5°	
Breakover Angle	8.2°	8.2°	
Construction	Semi-monocoque low- corrosion stainless-steel frame	Semi-monocoque low- corrosion stainless-steel frame	
Body Material	Fiberglass composite	Fiberglass composite	
Propulsion System			
Motor	Accelera [™] by Cummins	Accelera [™] by Cummins	
Maximum Power	320 kW	320 kW	
Maximum Torque	4800 Nm	4800 Nm	
Transmission/Gearbox	4.7 gear ratio direct drive	4.7 gear ratio direct drive	
Energy Storage System			
Battery Type	NMC lithium ion Ultra-high energy	NMC lithium ion Ultra-high energy	
Battery Capacity	520 kWh	520 kWh	
Usable SoC	89%	89%	
Battery Recycling Available	Yes	Yes	
Charging Plug-In			
Charge Rate (kW)	150+	150+	
Charge Time (7% to 96%)	< 4 hrs	< 4 hrs	
Plug / Adapter / Interface	CCS1	CCS1	
Number of Charge Ports	1	1	
Location(s) of Charge Ports	Rear curbside	Rear curbside	
EVSE Type (AC or DC)	DC	DC	
EVSE Supply Voltage	150 - 850 VDC	150 - 850 VDC	
EVSE Maximum Charge Current	200 A	200 A	

MCI model specification highlights.

Desfermen	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
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
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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 SP 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 limited v		24-month limited v	



D45 CRT CHARGE™ & D45 CRT LE CHARGE™



VIE | VEHICLE INNOVATION CENTER

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