

# 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, his

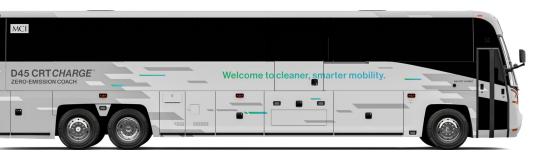
electric highway coaches offer long range, high capacity, real-time performance analytics and unparalleled accessibility.

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.

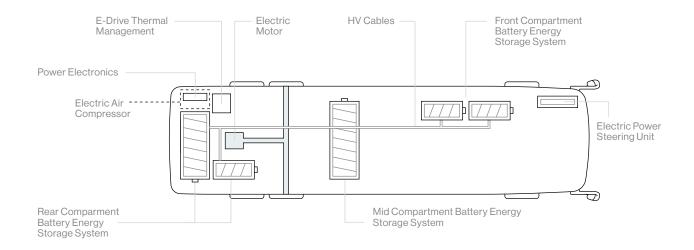
## The leader in green transportation.

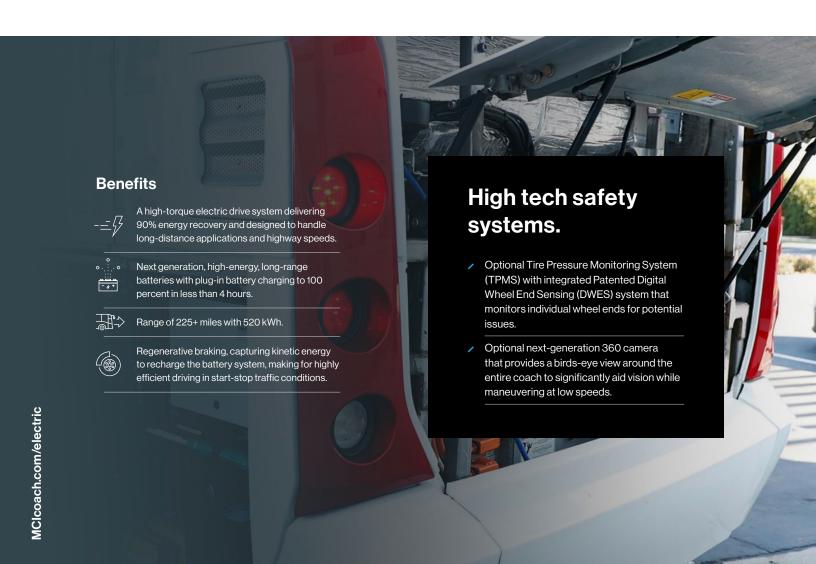
In the last two decades alone, New Flyer has expanded in three categories of zero-emission buses — battery-electric, trolley-electric, and hydrogen fuel cell-electric — along with the widest range of charging options.

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<sup>™</sup>, operated by NFI

Connect<sup>™</sup>, 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.



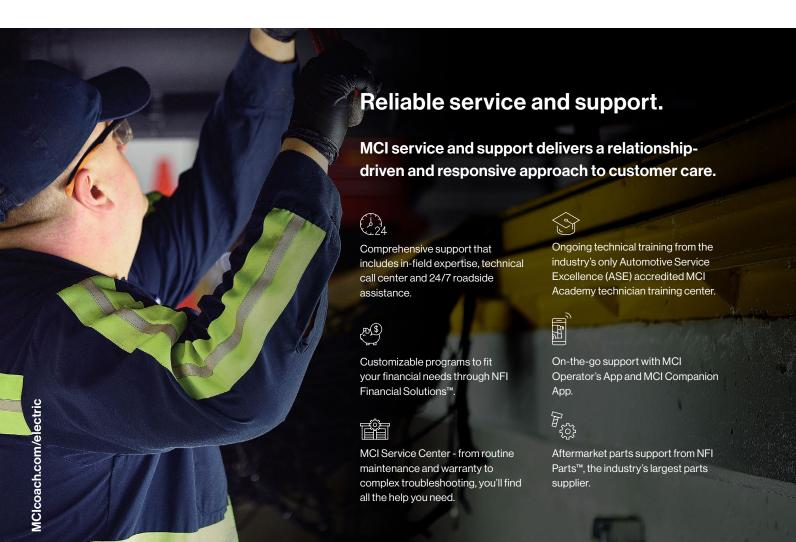
**Decision-making information** to optimize charging strategies.



Reduced operating cost and maximum fleet utilization.

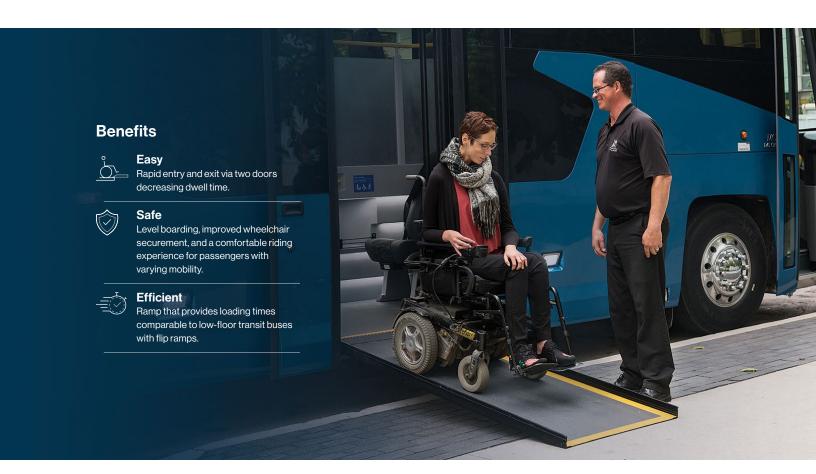


Connect 360™ is included on every new battery-electric coach. Learn more at **nfigroup.com/connect** 



## 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 LI	E 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	Siemens		Siemens		
Rated Power	320 kW		320 kW		
Maximum Torque	3320 ft-lbs		3320 ft-lbs		
Transmission/Gearbox	4.7 gear ratio direct drive		4.7 gear ratio direct drive		
Energy Storage System  Battery Type	NMC lithium ion Ultra-high energ by XALT		NMC lithium ior Ultra-high energ by XALT		
Battery Capacity	520 kWh		520 kWh		
Usable SoC	85+%		85+%		
Battery Recycling Available	Yes		Yes		
Charging Plug-In Charge Rate (kW)	150+		150+		
Charge Time (7% to 94%)	<4hrs		< 4 hrs		
Plug / Adapter / Interface	CCS1		CCS1		
Number of Charge Ports	1		1		
Location(s) of Charge Ports	Rear curbside	Rear curbside		Rear curbside	
EVSE Type (AC or DC)	DC	DC		DC	
EVSE Supply Voltage	150 - 850 VDC	150 - 850 VDC		150 - 850 VDC	
EVSE Maximum Charge Current	200 A		200 A		
EVSE Mounting Type	Wall/cabinet		Wall/cabinet		
EVSE IP Rating	IP 54		IP 54		
EVSE Smart Charging Capabilities	Available	Available		Available	
EVSE Manufacturers Certified for Use			All SAE J1772-c manufacturers	All SAE J1772-compliant manufacturers	
EVSE Buy America Compliant Manufacturer	No Yes		Yes		

## 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	<b>10% Grade:</b> 15 mph	24 kph	<b>10% Grade:</b> 15 mph	24 kph
	<b>2.5% Grade:</b> 40mph	64 kph	<b>2.5% Grade:</b> 40mph	64 kph
Weight				
Curb Weight (estimated)	43,000 lbs	19,500 kg	44,000 lbs	20,000 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	<b>Drive:</b> 23,000 lbs <b>Tag:</b> 16,500 lbs	10,432 kg 7,484 kg	<b>Drive:</b> 23,000 lbs <b>Tag:</b> 16,500 lbs	10,432 kg 7,484 kg
Passenger Capacity				
Warranty	61		54	
Vehicle	24-month limited v	varranty	24-month limited v	varranty



### D45 CRT CHARGE™ & D45 CRT LE CHARGE™



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