



# xcelstor

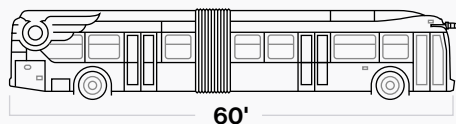
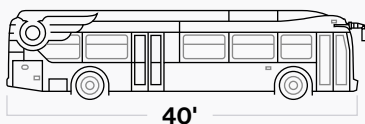
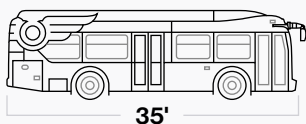
**Battery-Electric | Fuel-Cell Electric | CNG  
Hybrid-Electric | Clean Diesel | Trolley-Electric**



## Smart mobility solutions.

New Flyer has been leading innovation in mobility for 90 years, and today supports growing North American cities with sustainable buses, technology, and infrastructure.

Available in 3 lengths.



# Best-in-class features.

**Enhanced Safety & Accessibility.** SmartRider™ enables kneeling to variable heights and minimizes the slope difference between a low-floor ramp and the bus floor. SmartRider™ ramp achieves a 1:6 slope ratio with a self-leveling feature.



## Passenger Capacity

Industry-leading passenger carrying capacity.

**35' Xcelsior®**  
Seated 32 people  
Standees 33 people

**40' Xcelsior®**  
Seated 40 people  
Standees 43 people

**60' Xcelsior®**  
Seated 61 people  
Standees 62 people



## Performance

Weighs 8% less than previous models achieved through structure optimization and lighter weight supplier components, leading to improved efficiency and lower operating costs.

Delivers up to 8% fuel savings, reducing overall cost of ownership.

Lowest noise levels in the industry for Xcelsior CHARGE™ battery-electric propulsion.



## Low and Zero-Emission Options



Battery-electric buses can save you up to **\$400,000** in fuel costs over its 12-year life.



Hydrogen fuel cell provides **long-range** operations with a fully zero-emission solution.



CNG buses emit **virtually no visible particulate matter** or black soot.



Clean diesel technology reduces particulate emissions by **90%** and NOx emissions by **95%**.



## BRT Options

Customize to suit your BRT needs:

- ✓ Street-side exit doors
- ✓ Wider doors
- ✓ Bridge plates or ramps
- ✓ Interior & exterior bike racks
- ✓ Preferred seating layouts
- ✓ Integrated roof line for hybrid and CNG without added weight & cost
- ✓ No visible fasteners
- ✓ Flush windows

Visit [newflyer.com/xcelsior](http://newflyer.com/xcelsior) to learn more.

Measurements	35'	40'	60'
<b>Length</b>	36' 3" (11.05m) Over bumpers; 35' 5" (10.80m) Over body	41' 0" (12.50m) Over bumpers; 40' 2" (12.24m) Over body	60' 10" (18.54m) Over bumpers; 60' 0" (18.29m) Over body
<b>Width</b>	102" (2.6m)	102" (2.6m)	102" (2.6m)
<b>Roof Height</b>			
Diesel	10' 6" (3.2m) over A/C	10' 6" (3.2m) over A/C	10' 6" (3.2m) over A/C
Hybrid	10' 10" (3.3m) over cooling fans	10' 10" (3.3m) over cooling fans	10' 10" (3.3m) over cooling fans
CNG	11' 1" (3.38m) over roof enclosures	11' 1" (3.38m) over roof enclosures	11' 1" (3.38m) over roof enclosures
Electric	11' 1" (3.38m) over charging rails	11' 1" (3.38m) over charging rails	11' 1" (3.38m) over charging rails
<b>Step Height</b>	14" (356mm)	14" (356mm)	14" (356mm)
<b>Front Step Height (Kneeled)</b>	10" (254mm)	10" (254mm)	10" (254mm)
<b>Interior Height – Floor to Ceiling</b>	79" (2m) Over front and rear axle; 95" (2.4m) Mid-coach	79" (2m) Over front and rear axle; 95" (2.4m) Mid-coach	79" (2m) Over front and rear axle; 95" (2.4m) Mid-coach
<b>Tire Size</b>	305/70R22.5	305/70R22.5	305/70R22.5
<b>Aisle Width</b>	21" to 24" (559mm to 610mm) (varies with seat model)	21" to 24" (559mm to 610mm) (varies with seat model)	22" to 24" (559mm to 610mm) (varies with seat model)
<b>Wheelbase</b>	226.75" (5.8m)	283.75" (7.2m)	229" (5.8m) Front / 293" (7.4m) rear

Propulsion			
<b>Transmission</b>	Allison; Voith and ZF options available Allison hybrid drive; BAE HybriDrive®	Allison; Voith and ZF options available Allison hybrid drive; BAE HybriDrive®	Allison; Voith and ZF options available Allison hybrid drive; BAE HybriDrive®
<b>Engine Options</b>			
Diesel	Cummins L9	Cummins L9	Cummins L9
Hybrid	Cummins B6.7	Cummins B6.7	Cummins L9
CNG	Cummins L9 CNG	Cummins L9 CNG	Cummins L9 CNG
Electric	Siemens 1DB2016 or 1DB2020 Electric Drive System	Siemens 1DB2016 or 1DB2020 Electric Drive System	Siemens 1DB2016 or 1DB2020 Electric Drive System ZF AVE130 In-Wheel Motor Center Drive Axle

Passenger Capacity (With wheelchair barrier protection)			
<b>Seats</b>	Up to 32	Up to 40	Up to 61 (with one exit door)
<b>Standees</b>	Up to 33	Up to 43	Up to 62 (with one exit door)

Accessibility			
<b>Doors</b>	2	2	2 or 3 (option for up to 5 doors)
<b>Wheelchair Accessibility</b>	32" (813mm) wide, 1:6 slope NFIL or SmartRider™ ramp, front door	32" (813mm) wide, 1:6 slope NFIL or SmartRider™ ramp, front door	32" (813mm) wide, 1:6 slope NFIL or SmartRider™ ramp, front door
<b>Wheelchair Locations</b>	2 - Front location, rear location also available (other options available)	2 - Front location, rear location also available (other options available)	2 - Front location, rear location also available (other options available such as bridge plates)

Weight (Approximate weights; *Varies with ESS configuration)			
<b>Curb Weight</b>			
Diesel	24,500 lb (11,113 kg)	27,750 lb (12,587 kg)	40,765 lb (18,490 kg)
Hybrid	27,000 lb (12,247 kg)	29,100 lb (13,200 kg)	42,100 lb (19,096 kg)
CNG	27,000 lb (12,247 kg)	29,600 lb (13,426 kg)	43,300 lb (19,640 kg)
Electric	29,300 lb (13,290 kg)*	30,500 lb (13,835 kg)*	45,500 lb (20,638 kg)*

Approach Angle			
<b>Approach/Departure/Breakover Angles</b>	9°/9°/12°	9°/9°/9°	9°/9°/12° (front) 9° (back)

Turning Radius			
(Body, with aluminum wheels; *Varies with wheel type)			
<b>Turning Radius</b>	39' (11.9m)*	44' (13.4m)*	44' (13.4m)*

Main Components			
<b>Floor</b>	Composite at rear interior step, ACQ Plywood remainder (dB Ply used on upper deck). Tarabus, Altro, RCA	Composite at rear interior step, ACQ Plywood remainder (dB Ply used on upper deck). Tarabus, Altro, RCA	Composite at rear interior step, ACQ Plywood remainder (dB Ply used on upper deck). Tarabus, Altro, RCA
<b>Electrical System</b>	Parker Vansco	Parker Vansco	Parker Vansco
<b>Cooling System</b>	Electric cooling fans (EMP, Modine)	Electric cooling fans (EMP, Modine)	Electric cooling fans (EMP, Modine)
<b>Fuel Tank</b>	Polyethylene fuel tanks: 100 gallon (379 L); 125 gallon (473 L); Stainless steel tanks: 100 gallon (379 L) 125 gallon (473 L)	Polyethylene fuel tanks: 100 gallon (379 L); 125 gallon (473 L); Stainless steel tanks: 100 gallon (379 L) 125 gallon (473 L)	Polyethylene fuel tanks: 100 gallon (379 L); 125 gallon (473 L); Stainless steel tanks: 100 gallon (379 L) 125 gallon (473 L)
<b>HVAC</b>			
Diesel	Thermo King RLF or RLFEA Series System	Thermo King RLF or RLFEA Series System	Thermo King RLF or RLFEA Series System (front & rear)
Hybrid	Thermo King RLF Series System	Thermo King RLF Series System	Thermo King RLF or RLFEA Series System (front & rear)
CNG	Thermo King TE15 or TEA15	Thermo King TE15 or TEA15	Thermo King RLF (front) TE15 (rear)
Electric	Thermo King TE15	Thermo King TE15	Thermo King RLFE (front) TE15 (rear)
<b>Axles</b>	MAN VOK 07 Front disc brakes; MAN HY-1350 Rear disc brakes; Single reduction axle	MAN VOK 07 Front disc brakes; MAN HY-1350 Rear disc brakes; Single reduction axle	MAN VOK 07 Front disc brakes; ZF AVN 132 Center disc brake; MAN HY-1350 Rear disc brakes; ZF AVN132 center-drive axle (electric)

# xcelstor<sup>®</sup>

[newflyer.com/xcelstor](http://newflyer.com/xcelstor)



**VIC** | VEHICLE INNOVATION CENTER

Learn more about this technology at the Vehicle Innovation Center  
[newflyer.com/vic](http://newflyer.com/vic)