



# xcelstor

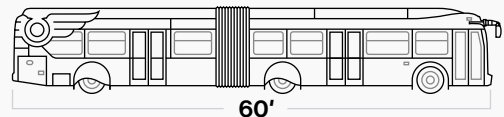
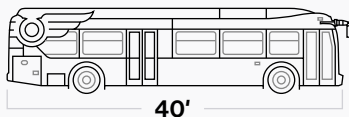
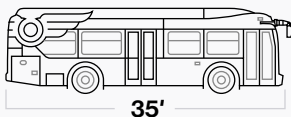
**Battery-Electric | Fuel Cell-Electric | CNG  
FC | Clean Diesel | Trolley-Electric**



**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 lighterweight 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 NG™ 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;<br>35' 5" (10.80m) Over body  | 41' 0" (12.50m) Over bumpers;<br>40' 2" (12.24m) Over body  | 60' 10" (18.54m) Over bumpers;<br>60' 0" (18.29m) Over body   |
| <b>Width</b>   | 102" (2.6m)   | 102" (2.6m)   | 102" (2.6m)   |
| <b>Roof Height</b><br>Diesel (XD)<br>Hybrid (XDE)<br>CNG (XN)<br>Electric (XE) | 10' 6" (3.2m) over A/C<br>10' 10" (3.3m) over cooling fans<br>11' 1" (3.38m) over roof enclosures<br>11' 1" (3.38m) over charging rails | 10' 6" (3.2m) over A/C<br>10' 10" (3.3m) over cooling fans<br>11' 1" (3.38m) over roof enclosures<br>11' 1" (3.38m) over charging rails | 10' 6" (3.2m) over A/C<br>10' 10" (3.3m) over cooling fans<br>11' 1" (3.38m) over roof enclosures<br>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;<br>95" (2.4m) Mid-coach  | 79" (2m) Over front and rear axle;<br>95" (2.4m) Mid-coach  | 79" (2m) Over front and rear axle;<br>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)<br>(varies with seat model)   | 21" to 24" (559mm to 610mm)<br>(varies with seat model)   | 22" to 24" (559mm to 610mm)<br>(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><br>Hybrid   | Allison; Voith and ZF options available<br>Allison hybrid drive; BAE HybriDrive®   | Allison; Voith and ZF options available<br>Allison hybrid drive; BAE HybriDrive®   | Allison; Voith and ZF options available<br>Allison hybrid drive; BAE HybriDrive®   |
| <b>Engine Options</b><br>Diesel (XD)<br>Hybrid (XDE)<br>CNG (XN)<br>Electric (XE) | Cummins L9<br>Cummins B6.7<br>Cummins L9 CNG<br>Siemens electric drive system;<br>Standard or optional high gradeability motor | Cummins L9<br>Cummins B6.7<br>Cummins L9 CNG<br>Siemens electric drive system;<br>Standard or optional high gradeability motor | Cummins L9<br>Cummins L9<br>Cummins L9 CNG<br>Siemens electric drive system;<br>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 35 | Up to 44 | 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<br>NFIL or SmartRider™ ramp, front door        | 32" (813mm) wide, 1:6 slope<br>NFIL or SmartRider™ ramp, front door        | 32" (813mm) wide, 1:6 slope<br>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) |

| 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)* | 43.5' (13.3)* | 42' (12.8m)* |

| Main Components   |   |   |   |
|---|---|---|---|
| <b>Floor</b>  | Composite at rear interior step,<br>ACQ Plywood remainder (dB Ply used<br>on upper deck). Tarabus, Altro, RCA                       | Composite at rear interior step,<br>ACQ Plywood remainder (dB Ply used<br>on upper deck). Tarabus, Altro, RCA                       | Composite at rear interior step,<br>ACQ Plywood remainder (dB Ply used<br>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<br>(379 L); 125 gallon (473 L); Stainless steel<br>tanks: 100 gallon (379 L) 125 gallon (473 L) | Polyethylene fuel tanks: 100 gallon<br>(379 L); 125 gallon (473 L); Stainless steel<br>tanks: 100 gallon (379 L) 125 gallon (473 L) | Polyethylene fuel tanks: 100 gallon<br>(379 L); 125 gallon (473 L); Stainless steel<br>tanks: 100 gallon (379 L) 125 gallon (473 L)   |
| <b>HVAC</b><br>Diesel (XD)<br>Hybrid (XDE)<br>CNG (XN)<br>Electric (XE) | Thermo King RLF or RLFEA Series System<br>Thermo King RLF Series System<br>Thermo King TE15 or TEA15<br>Thermo King TE15            | Thermo King RLF or RLFEA Series System<br>Thermo King RLF Series System<br>Thermo King TE15 or TEA15<br>Thermo King TE15            | Thermo King RLF or RLFEA Series System (front & rear)<br>Thermo King RLF or RLFEA Series System (front & rear)<br>Thermo King RLF (front) TE15 (rear)<br>Thermo King RLFE (front) TE15 (rear) |
| <b>Axles</b>  | MAN VOK 07 Front disc brakes;<br>MAN HY-1350 Rear disc brakes;<br>Single reduction axle   | MAN VOK 07 Front disc brakes;<br>MAN HY-1350 Rear disc brakes;<br>Single reduction axle   | MAN VOK 07 Front disc brakes;<br>ZF AVN 132 Center disc brake;<br>MAN HY-1350 Rear disc brakes;<br>Single reduction axle  |

# xcelstor<sup>®</sup>

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



**VIC** | VEHICLE INNOVATION CENTER

Learn more about this technology at the Vehicle Innovation Center  
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