

# xcelstor<sup>®</sup>

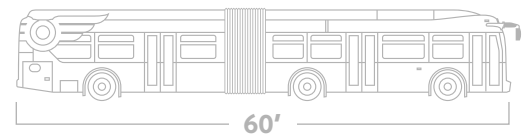
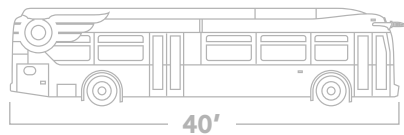
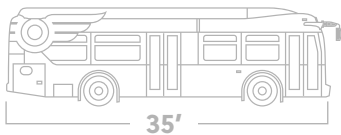
Electric | Hydrogen Fuel Cell | CNG | Hybrid | Diesel | Trolley

## Smart mobility solutions.

After more than 80 years of revolutionizing public transit, New Flyer's innovative propulsion options offer the quality and reliability you need, with life-cycle savings, best-in-class features, and a superior passenger and driver experience.



### Available in 3 lengths.



## Best-in-Class Features



### Passenger Capacity

Industry-leading passenger carrying capacity

35' Xcelstor<sup>®</sup>  
Seated 32 people  
Standees 33 people

40' Xcelstor<sup>®</sup>  
Seated 40 people  
Standees 43 people

60' Xcelstor<sup>®</sup>  
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 Xcelstor CHARGE<sup>™</sup> 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%



### ADA

SmartRider<sup>™</sup> enables kneeling to variable heights and minimizes the slope difference between a low-floor ramp and the bus floor

SmartRider<sup>™</sup> ramp achieves a 1:6 slope ratio with a self-leveling feature that can withstand up to 1000lbs



### 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

	35'	40'	60'
<b>MEASUREMENTS</b>			
<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)	21" 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
<b>PROPULSION</b>			
<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
<b>CAPACITY (with wheelchair barrier protection)</b>			
<b>Seats</b>	Up to 32	Up to 40	Up to 61 (with one exit door)
<b>Standees (*Varies with number of seats)</b>	Up to 33	Up to 43	Up to 62 (with one exit door)
<b>ACCESSIBILITY</b>			
<b>Number of 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)
<b>WEIGHT (approximate weights; varies with customer options)</b>			
<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	31,250 lb (14,170 kg)	33,805 lb (15,334 kg)	45,500 lb (20,638 kg)
<b>APPROACH ANGLE</b>			
<b>Approach/departure/breakover angles</b>	9/9/12	9/9/9	9/9/12 (front) 9 (back)
<b>TURNING RADIUS (body, with aluminum wheels; *varies with wheel type)</b>			
<b>Turning radius</b>	39' (11.9m)*	44' (13.4m)*	44' (13.4m)*
<b>MAIN COMPONENTS</b>			
<b>Floor</b>	Composite at rear interior step, ACQ Plywood remainder (dB Ply used on upper deck). Tarabus, Altro, RCA Parker Vansco	Composite at rear interior step, ACQ Plywood remainder (dB Ply used upper deck). Tarabus, Altro, RCA Parker Vansco	Composite at rear interior step, ACQ Plywood remainder (dB Ply used upper deck). Tarabus, Altro, RCA Parker Vansco
<b>Electrical System</b>			
<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, single reduction axle ZF AVN132 center-drive axle (electric)