

xcelstor®

ELECTRIC | HYDROGEN FUEL CELL | CNG | HYBRID | DIESEL | TROLLEY



COMPREHENSIVE
12-YEAR
WARRANTY



BUY AMERICA
COMPLIANT AND PROUD
TO EMPLOY MORE
AMERICAN WORKERS
THAN ANY OTHER BUS
MANUFACTURER IN
NORTH AMERICA.

It's **bright** ahead...

Choose your way forward

The future is built by the choices we make. By choosing New Flyer's innovation, quality, and reliability you choose better. Build your fleet with life-cycle savings, best-in-class features and a superior passenger and driver experience. The future is bright, choose Xcelstor®.

Best-in-Class Features



PASSENGER CAPACITY

Highest passenger capacity in the industry

35' xcelstor

Seated 32 people
Standees 33 people

40' xcelstor

Seated 40 people
Standees 43 people

60' xcelstor

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
- Significant noise reductions achieved through a single-reduction rear axle, quieter air-conditioning and improved body insulation
- Lowest noise levels in the industry for Xcelstor CHARGE™, New Flyer's all-electric bus



ZERO-EMISSIONS

- Save up to \$400,000 in fuel costs over the 12-year life of the battery-electric bus
- Versatile charging and range options using depot charging and overhead charging
- Versatile range options with customizable battery quantity and configuration
- \$125,000 in maintenance savings over the 12-year life with absence of engine, transmission, intake and exhaust
- Hydrogen fuel cell provides long-range operations with a fully zero-emission solution



BRT OPTIONS

Customize to suit your BRT needs:

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



ADA

- Smart Rider™ ride control system provides computer-controlled motion reduction offering a smoother ride and smoother leveling and height adjusting when stationary
- Flatlander™ wheelchair ramp that is integrated with Smart Rider achieves a 1:6 slope ratio with a self-leveling feature giving riders a flatter entry way and can withstand up to 1000lbs

Built to **RELY ON.**™

	35'	40'	60'
MEASUREMENTS			
Length	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
Width	102" (2.6m)	102" (2.6m)	102" (2.6m)
Roof Height:			
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
Step Height	14" (356mm)	14" (356mm)	14" (356mm)
Front step height (kneeled)	10" (254mm)	10" (254mm)	10" (254mm)
Interior height – floor to ceiling	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
Tire Size	305/70R22.5	305/70R22.5	305/70R22.5
Aisle Width	22" to 24" (559mm to 610mm) (varies with seat model)	22" to 24" (559mm to 610mm) (varies with seat model)	22" to 24" (559mm to 610mm) (varies with seat model)
Wheelbase	226.75" (5.8m)	283.75" (7.2m)	229" (5.8m) front / 293" (7.4m) rear
PROPULSION			
Transmission	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®
Engine Options:			
Diesel	Cummins ISL 280	Cummins ISL 280	Cummins ISL 280
Hybrid	Cummins ISB 280 or ISL 280	Cummins ISB 280 or ISL 280	Cummins ISB 280 or ISL 280
CNG	ISL-G 280 in 2018 switching to ISL-G NZ 280	ISL-G 280 in 2018 switching to ISL-G NZ 280	ISL-G 280 in 2018 switching to ISL-G NZ 320
Electric	Siemens ELFA2 Electric Drive System	Siemens ELFA2 Electric Drive System	Siemens ELFA2 Electric Drive System ZF AVE130 In-Wheel Motor Center Drive Axle
CAPACITY (with wheelchair barrier protection)			
Seats	Up to 32	Up to 40	Up to 61 (with one exit door)
Standees	Up to 33	Up to 43	Up to 62 (with one exit door)
ACCESSIBILITY			
Number of Doors	2	2	2 or 3 (option for up to 5 doors)
Wheelchair Accessibility	32" (813mm) wide, 1:6 slope Flip out NFIL ramp, front door	32" (813mm) wide, 1:6 slope Flip out NFIL ramp, front door	32" (813mm) wide, 1:6 slope Flip out NFIL ramp, front door
Wheelchair Locations	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 customer options)			
Curb Weight:			
Diesel	24,500 lb (11,113 kg)	26,000 lb (11,793 kg)	39,000 lb (17,690 kg)
Hybrid	27,000 lb (12,247 kg)	28,500 lb (12,927 kg)	42,000 lb (19,051 kg)
CNG	27,000 lb (12,247 kg)	28,500 lb (12,927 kg)	42,000 lb (19,051 kg)
Electric	29,300 lb (13,290 kg)	30,500 lb (13,835 kg)	45,500 lb (20,638 kg)
APPROACH ANGLE			
Approach/departure/breakover angles	9/9/12	9/9/9	9/9/12 (front) 9 (back)
TURNING RADIUS (body, with aluminum wheels; *varies with wheel type)			
Turning radius	39' (11.9m)*	44' (13.4m)*	44' (13.4m)*
MAIN COMPONENTS			
Floor	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 upper deck). Tarabus, Altro, RCA	Composite at rear interior step, ACQ Plywood remainder (dB Ply used upper deck). Tarabus, Altro, RCA
Electrical System	Parker Vansco	Parker Vansco	Parker Vansco
Cooling System	electric cooling fans (EMP, Modine)	electric cooling fans (EMP, Modine)	electric cooling fans (EMP, Modine)
Fuel Tank	polyethylene fuel tanks 100 US gallon (379 L)(Hybrid); 125 (473 L) US gallon (Diesel) stainless steel tanks available	polyethylene fuel tanks 100 US gallon (379 L)(Hybrid); 125 (473 L) US gallon (Diesel) stainless steel tanks available	polyethylene fuel tanks 100 US gallon (379 L)(Hybrid); 125 (473 L) US gallon (Diesel) stainless steel tanks available
HVAC:			
Diesel	Thermo King RLF Series System	Thermo King RLF Series System	Thermo King RLF Series System (front and rear)
Hybrid	Thermo King RLF Series System	Thermo King RLF Series System	Thermo King RLF Series System (front and rear)
CNG	Thermo King T-Series	Thermo King T-Series	Thermo King RLF (front) T-Series (rear)
Electric	Thermo King RLFE	Thermo King RLFE	Thermo King RLFE (front) T-Series (rear)
Axles	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)