

CATALYST® : 40 FOOT BUS

SPECIFICATIONS



PROTERRA

Description	FC Series		XR Series		E2 Series			
	FC	FC+	XR	XR+	E2	E2+	E2 max	
DIMENSIONS								
Length	ft	42'6"	42'6"	42'6"	42'6"	42'6"	42'6"	42'6"
Height	ft	11'2"	11'2"	11'2"	11'2"	11'2"	11'2"	11'2"
Wheelbase	ft	24'8"	24'8"	24'8"	24'8"	24'8"	24'8"	24'8"
Approach Angle	degrees	8.6°	8.6°	8.6°	8.6°	8.6°	8.6°	8.6°
Breakover Angle	degrees	7°	7°	7°	7°	7°	7°	7°
Departure Angle	degrees	9°	9°	9°	9°	9°	9°	9°
Turning Radius	ft	41.9'	41.9'	41.9'	41.9'	41.9'	41.9'	41.9'
Curb Weight	lbs	26,446	27,500	26,637	28,243	29,849	31,455	33,061
Gross Vehicle Weight	lbs	39,050	39,050	39,050	39,050	39,050	39,050	39,050

PERFORMANCE								
Projected Altoona Efficiency	kWh/mile; w/full passenger load	1.61	1.70	1.62	1.71	1.75	1.82	1.89
Top Speed	mph	65	65	65	65	65	65	65
Acceleration	from 0 to 20 mph	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Total Energy	kWh	79	105	220	330	440	550	660
Nominal Range*	Miles; Total energy/ projected Altoona efficiency	49	62	136	193	251	303	350
Standard Charge Time		10 min	13 min	< 3 hrs	< 3 hrs	< 3.5 hrs	< 4 hrs	< 5 hrs
Charging - In Depot	Utilizes standard J1772-CCS plug-in chargers	60 kW	60 kW	60 kW	120 kW	120 kW	120 kW	120 kW
Charging - On Route	Configured for Proterra overhead fast-charger	350 kW	350 kW	175 kW	260 kW	option	option	option

* actual range will vary depending on route conditions and driver behavior

INTERIOR								
Seating Capacity	Passengers	40	40	40	40	40	40	40
Door Width	Inches	Front 43.2" Rear 49.1"	Front 43.2" Rear 49.1"	Front 43.2" Rear 49.1"	Front 43.2" Rear 49.1"	Front 43.2" Rear 49.1"	Front 43.2" Rear 49.1"	Front 43.2" Rear 49.1"
Lighting	LED interior lighting system	•	•	•	•	•	•	•
Handles	Stainless-steel stanchion system	•	•	•	•	•	•	•
Stop request	ADA pull chord or touch tape stop request	•	•	•	•	•	•	•
Doors	Sensitive edges on both front and rear door	•	•	•	•	•	•	•
Wipers	Electric wipers and washers	•	•	•	•	•	•	•
HVAC	Overhead integrated system	•	•	•	•	•	•	•

EXTERIOR								
Tires	Michelin 305/70R22.5	•	•	•	•	•	•	•
Exterior Lights	LED Exterior Lights	•	•	•	•	•	•	•

BRAKES & SUSPENSION								
Braking System	Front & rear air disk brakes	•	•	•	•	•	•	•
Traction	4-wheel ABS with optional traction control	•	•	•	•	•	•	•
Suspension	Multi-Link Air Ride rear suspension	•	•	•	•	•	•	•

ELECTRICAL SYSTEM								
Battery System	Integrated battery management system	•	•	•	•	•	•	•
Low Voltage	Two, Group 31 700 CCA 12v batteries	•	•	•	•	•	•	•
Number of Charge Ports		one port standard	one port standard	two ports standard	two ports standard	two ports standard	two ports standard	two ports standard

DRIVE TRAIN								
Motor	220 kW peak permanent magnet drive motor	•	•	•	•	•	•	•
Gearbox	Proterra 2-speed auto-shift EV gearbox	•	•	•	•	•	•	•
Cooling System	Roof-mounted cooling system	•	•	•	•	•	•	•

ADA								
	Two ADA locations, one on each side of the aisle directly behind the front wheel	•	•	•	•	•	•	•
	ADA securement system	•	•	•	•	•	•	•
	Front ADA power wheel-chair ramp (4:1, 6:1 slope)	•	•	•	•	•	•	•
	Rear door modesty panels	•	•	•	•	•	•	•
	Aisle width between front wheel wells: 35.5'	•	•	•	•	•	•	•

WARRANTY								
	Complete Bus - 1 year or 50,000 miles	•	•	•	•	•	•	•
	6 year Battery Warranty	•	•	•	•	•	•	•
	Extended warranties & service contracts available upon request	•	•	•	•	•	•	•

CATALYST® : 35 FOOT BUS

SPECIFICATIONS



PROTERRA

Description	FC Series		XR Series		E2	
	FC	FC+	XR	XR+	E2	
DIMENSIONS						
Length	ft	36'11"	36'11"	36'11"	36'11"	36'11"
Height	ft	11'4"	11'4"	11'4"	11'4"	11'4"
Wheelbase	ft	20'3"	20'3"	20'3"	20'3"	20'3"
Approach Angle	degrees	8.6°	8.6°	8.6°	8.6°	8.6°
Breakover Angle	degrees	8.5°	8.5°	8.5°	8.5°	8.5°
Departure Angle	degrees	8.7°	8.7°	8.7°	8.7°	8.7°
Turning Radius	ft	36'	36'	36'	36'	36'
Curb Weight	lbs	25,746	26,800	25,796	27,402	29,008
Gross Vehicle Weight	lbs	38,000	38,000	38,000	38,000	38,000

PERFORMANCE						
Projected Altoona Efficiency	kWh/mile; w/full passenger load	1.61	1.70	1.62	1.71	1.75
Top Speed	mph	65	65	65	65	65
Acceleration	from 0 to 20 mph	6.8	6.8	6.8	6.8	6.8
Total Energy	kWh	79	105	220	330	440
Nominal Range*	Miles; Total energy/ projected Altoona efficiency	49	62	136	193	251
Standard Charge Time		10 min	13 min	< 3 hrs	< 3 hrs	< 3.5 hrs
Charging - In Depot	Utilizes standard J1772-CCS plug-in chargers	60 kW	60 kW	60 kW	120 kW	120 kW
Charging - On Route	Configured for Proterra overhead fast-charger	350 kW	350 kW	175 kW	260 kW	option

* actual range will vary depending on route conditions and driver behavior

INTERIOR						
Seating Capacity	Passengers	28	28	28	28	28
Door Width	Inches	Front 43.2" Rear 49.1"	Front 43.2" Rear 49.1"	Front 43.2" Rear 49.1"	Front 43.2" Rear 49.1"	Front 43.2" Rear 49.1"
Lighting	LED interior lighting system	•	•	•	•	•
Handles	Stainless-steel stanchion system	•	•	•	•	•
Stop request	ADA pull chord or touch tape stop request	•	•	•	•	•
Doors	Sensitive edges on both front and rear door	•	•	•	•	•
Wipers	Electric wipers and washers	•	•	•	•	•
HVAC	Overhead integrated system	•	•	•	•	•

EXTERIOR						
Tires	Michelin 305/70R22.5	•	•	•	•	•
Exterior Lights	LED Exterior Lights	•	•	•	•	•

BRAKES & SUSPENSION						
Braking System	Front & rear air disk brakes	•	•	•	•	•
Traction	4-wheel ABS with optional traction control	•	•	•	•	•
Suspension	Multi-Link Air Ride rear suspension	•	•	•	•	•

ELECTRICAL SYSTEM						
Battery System	Integrated battery management system	•	•	•	•	•
Low Voltage	Two, Group 31 700 CCA 12v batteries	•	•	•	•	•
Number of Charge Ports		one port standard	one port standard	two ports standard	two ports standard	two ports standard

DRIVE TRAIN						
Motor	220 kW peak permanent magnet drive motor	•	•	•	•	•
Gearbox	Proterra 2-speed auto-shift EV gearbox	•	•	•	•	•
Cooling System	Roof-mounted cooling system	•	•	•	•	•

ADA						
	Two ADA locations, one on each side of the aisle directly behind the front wheel	•	•	•	•	•
	ADA securement system	•	•	•	•	•
	Front ADA power wheel-chair ramp (4:1, 6:1 slope)	•	•	•	•	•
	Rear door modesty panels	•	•	•	•	•
	Aisle width between front wheel wells: 35.5'	•	•	•	•	•

WARRANTY						
	Complete Bus - 1 year or 50,000 miles	•	•	•	•	•
	6 year Battery Warranty	•	•	•	•	•
	Extended warranties and service contracts available upon request	•	•	•	•	•