

CATALYST® : 35 FOOT BUS

PERFORMANCE SPECIFICATIONS



PROTERRA

	Description	XR	E2
CATALYST VEHICLE WITH DUOPOWER™ DRIVETRAIN			
Total Energy	kWh	220	440
Operating Efficiency*	kWh/mile	1.46-1.79	1.50-2.16
	MPGe	21.0-25.8	17.4-25.0
Operating Range*	Miles; Usable energy/Operating efficiency	98-121	163-234
Top Speed (Proterra-governed)	mph (per tire rating)	65	65
Acceleration (at SLW, seconds)	0 to 20 mph	5	5
	20 to 50 mph	16	12.3
Gradability (top speed at % grade, at SLW, mph)	5%	54	65
	10%	32	44
	15%	23	31
Max Grade (at SLW)		29%	27%
Horsepower	Peak	338	510
	Continuous	170	338
Motor	Dual independent 190 kW motors	•	•
Gearbox	Proterra 2-speed auto-shift EV gearbox	•	•
Curb Weight	lbs	26,358	29,658
Max Gross Vehicle Weight Rating	lbs	42,000	42,000
CATALYST VEHICLE WITH PRODRIVE DRIVETRAIN			
Total Energy	kWh	220	440
Operating Efficiency*	kWh/mile	1.55-1.89	1.66-2.32
	MPGe	19.9-24.3	16.3-22.7
Operating Range*	Miles; Usable energy/Operating efficiency	93-114	152-212
Top Speed (Proterra-governed)	mph (per tire rating)	65	65
Acceleration (at SLW, seconds)	0 to 20 mph	6.2	6.4
	20 to 50 mph	21.7	23.5
Gradability (top speed at % grade, at SLW, mph)	5%	48	43
	10%	29	29
	15%	22	21
Max Grade (at SLW)		24%	21%
Horsepower	Peak	335	335
	Continuous	170	240
Motor	Single 250kW permanent magnet drive motor	•	•
Gearbox	Proterra 2-speed auto-shift EV gearbox	•	•
Curb Weight	lbs	26,558	29,858
Max Gross Vehicle Weight Rating	lbs	42,000	42,000
CHARGING			
Max Plug-in Charge Rate at 200A	kW	72	132
Max Overhead Charge Rate	kW	166	331
Overhead Charging	Miles replenished per 10 minutes **	16	28
	Est. time Empty to Full***	2.7 hrs.	2.7 hrs.
Plug-in Charging	Est. time Empty to Full***	2.8 hrs.	3.2 hrs.
<small>*Operating range and efficiencies approximated from simulations based on UDDS cycle Altoona testing results at SLW, and will vary with route conditions, weather, vehicle configuration and driver behavior. ** ProDrive powertrain efficiencies *** Charge time will vary depending on charger type. Estimated charge time empty to full based on 0-99%</small>			

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PLATFORM SPECIFICATIONS



	Description
VEHICLE DIMENSIONS	
Length	443"
Height	128"
Width	102"
Wheelbase	243"
Approach Angle	8.6°
Breakover Angle	8.5°
Departure Angle	8.7°
Turning Radius	432"
INTERIOR	
Seating Capacity	28
Door Width	Front 43.4", Rear 49.1"
Lighting	LED interior lighting system
Handles	Stainless-steel stanchion system
Stop Request	ADA pull cord or touch tape stop request
Doors	Sensitive edges on both front and rear door
Wipers	Electric wipers and washers
HVAC	Overhead integrated system
EXTERIOR	
Bus Body	Carbon-fiber-reinforced composite material
Tires	Standard: Michelin 315/80R22.5
Exterior Lights	LED
BRAKES & SUSPENSION	
Braking System	Regenerative braking; 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
Charge Ports	J1772 CCS: One port standard at curb-side rear, 2nd port optional at street-side rear or curb-side front
Overhead Charging	Optional
Plug-in Charging	Universal standard J1772-CCS
Overhead Charging	Universal standard J3105
ADA	
	Two ADA locations, one on each side of the aisle directly behind the front wheel
	ADA securement system
	Front ADA power wheelchair ramp (4:1, 6:1 slope)
	Rear door modesty panels
	Aisle width between front wheel wells: 35.7"
WARRANTY	
Vehicle	Complete Bus - 1 year or 50,000 miles Extended warranties and service contracts available upon request
Batteries	12 years / unlimited miles, materials and workmanship