

CATALYST® : 40 FOOT BUS

PERFORMANCE SPECIFICATIONS



PROTERRA

	Description	XR	E2	E2 max
CATALYST VEHICLE WITH DUOPOWER™ DRIVETRAIN				
Total Energy	kWh	220	440	660
Operating Efficiency*	kWh/mile	1.49-1.82	1.53-2.19	1.61-2.28
	MPGe	20.7-25.3	17.2-24.6	16.6-23.4
Operating Range*	Miles; Usable energy/Operating efficiency	97-118	161-230	232-328
Top Speed (Proterra-governed)	mph (per tire rating)	65	65	65
Acceleration (at SLW, seconds)	0 to 20 mph	5	5	5.2
	20 to 50 mph	16	12.3	13.2
Gradability (top speed at % grade, at SLW, mph)	5%	54	65	62
	10%	32	44	39
	15%	23	31	29
Max Grade (at SLW)		29%	27%	24%
Horsepower	Peak	338	510	510
	Continuous	170	338	338
Motor	Dual independent 190 kW motors	•	•	•
Gearbox	2-speed auto-shift EV gearbox	•	•	•
Curb Weight	lbs	26,649	29,849	33,149
Max Gross Vehicle Weight Rating	lbs	43,650	43,650	43,650
CATALYST VEHICLE WITH PRODRIVE DRIVETRAIN				
Total Energy	kWh	220	440	660
Operating Efficiency*	kWh/mile	1.58-1.91	1.73-2.35	1.82-2.48
	MPGe	19.7-23.8	16.0-21.8	15.2-20.7
Operating Range*	Miles; Usable energy/Operating efficiency	92-111	150-204	213-290
Top Speed (Proterra-governed)	mph (per tire rating)	65	65	65
Acceleration (at SLW, seconds)	0 to 20 mph	6.2	6.4	6.6
	20 to 50 mph	21.7	23.5	26
Gradability (top speed at % grade, at SLW, mph)	5%	48	43	29
	10%	29	29	27
	15%	22	21	18
Max Grade (at SLW)		24%	21%	19%
Horsepower	Peak	335	335	335
	Continuous	170	240	240
Motor	Single 250kW permanent magnet drive motor	•	•	•
Gearbox	2-speed auto-shift EV gearbox	•	•	•
Curb Weight	lbs	26,850	30,050	33,350
Max Gross Vehicle Weight Rating	lbs	43,650	43,650	43,650
CHARGING				
Max Plug-in Charge Rate at 200A	kW	72	132	132
Max Overhead Charge Rate	kW	166	331	397
Overhead Charging	Miles replenished per 10 min**	16	27	31
	Est. time Empty to Full***	2.7 hrs.	2.7 hrs.	2.8 hrs.
Plug-in Charging	Est. time Empty to Full***	2.8 hrs.	3.2 hrs.	4.5 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>				

CATALYST[®] : 40 FOOT BUS

PLATFORM SPECIFICATIONS



	Description
VEHICLE DIMENSIONS	
Length	510"
Height	128"
Width	102"
Wheelbase	296"
Approach Angle	9°
Breakover Angle	7°
Departure Angle	9°
Turning Radius	503"
INTERIOR	
Seating Capacity	40
Door Width	Front 43.4", Rear 49.2"
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