

# CATALYST® : 40 FOOT BUS

## PERFORMANCE SPECIFICATIONS - CANADA



# PROTERRA

	Description	XR	E2	E2 max
<b>CATALYST VEHICLE WITH DUOPOWER™ DRIVETRAIN</b>				
Total Energy	kWh	220	440	660
Operating Efficiency*	kWh/km	0.93-1.13	0.95-1.36	1-1.42
	Litres/100km equivalent	9.3-11.4	9.6-13.7	10.1-14.2
Operating Range*	Kilometers; Usable energy/Operating efficiency	156-190	259-370	373-528
Top Speed (Proterra-governed)	km/hr (per tire rating)	105	105	105
Acceleration (at SLW, seconds)	0-32 km/hr	5	5	5.2
	32-80 km/hr	16	12.3	13.2
Gradability (top speed at % grade, at SLW, km/hr)	5%	87	105	100
	10%	51	71	63
	15%	37	50	47
Max Grade (at SLW)		29%	27%	24%
Power (kW)	Peak	252	380	380
	Continuous	127	252	252
Motor	Dual independent 190 kW motors	•	•	•
Gearbox	2-speed auto-shift EV gearbox	•	•	•
Curb Weight	kg	12,088	13,539	15,036
Max Gross Vehicle Weight Rating	kg	19,799	19,799	19,799
<b>CATALYST VEHICLE WITH PRODRIVE DRIVETRAIN</b>				
Total Energy	kWh	220	440	660
Operating Efficiency*	kWh/km	0.98-1.19	1.07-1.46	1.13-1.54
	Litres/100km equivalent	9.9-11.9	10.8-14.7	11.4-15.5
Operating Range*	Kilometers; Usable energy/Operating efficiency	148-179	241-328	343-467
Top Speed (Proterra-governed)	km/hr (per tire rating)	105	105	105
Acceleration (at SLW, seconds)	0-32 km/hr	6.2	6.4	6.6
	32-80 km/hr	21.7	23.5	26
Gradability (top speed at % grade, at SLW, km/hr)	5%	77	69	47
	10%	47	47	43
	15%	35	34	29
Max Grade (at SLW)		24%	21%	19%
Power (kW)	Peak	250	250	250
	Continuous	127	179	179
Motor	Single 250kW permanent magnet drive motor	•	•	•
Gearbox	2-speed auto-shift EV gearbox	•	•	•
Curb Weight	kg	12,179	13,630	15,127
Max Gross Vehicle Weight Rating	kg	19,799	19,799	19,799
<b>CHARGING</b>				
Max Plug-in Charge Rate at 200A	kW	72	132	132
Max Overhead Charge Rate	kW	166	331	397
Overhead Charging	Kilometers replenished per 10 min**	25	44	50
	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.
*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%				

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## PLATFORM SPECIFICATIONS - CANADA



	Description
<b>VEHICLE DIMENSIONS</b>	
Length	12.95 m
Height	3.25 m
Width	2.59 m
Wheelbase	7.52 m
Approach Angle	9°
Breakover Angle	7°
Departure Angle	9°
Turning Radius	12.78 m
<b>INTERIOR</b>	
Seating Capacity	40
Door Width	Front 110 cm, Rear 125 cm
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
<b>EXTERIOR</b>	
Bus Body	Carbon-fiber-reinforced composite material
Tires	Standard: Michelin 315/80R22.5
Exterior Lights	LED
<b>BRAKES &amp; SUSPENSION</b>	
Braking System	Regenerative braking; front & rear air disk brakes
Traction	4-wheel ABS with optional traction control
Suspension	Multi-Link Air Ride rear suspension
<b>ELECTRICAL SYSTEM</b>	
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
<b>ADA</b>	
	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: 91 cm
<b>WARRANTY</b>	
Vehicle	Complete Bus - 1 year or 80,000 km Extended warranties and service contracts available upon request
Batteries	12 years / unlimited miles, materials and workmanship