

PROTERRA[®] ZX5

40 FOOT BATTERY-ELECTRIC TRANSIT BUS PLATFORM SPECIFICATIONS



	Description	ZX5+	ZX5 MAX
Total Energy	kWh	492	738
Operating Efficiency*	kWh/mile	1.8-2.5	1.9-2.8
	MPGe	15-21	14-20
Operating Range*	Miles	160-240	220-340
Top Speed (Proterra-governed)	mph (per tire rating)	65	65
Acceleration (at SLW, seconds)	0 to 20 mph	6.2	6.5
	20 to 50 mph	22.8	24.8
Gradability (top speed at % grade, at SLW, mph)	5%	46	43
	10%	28	25
	15%	19	18
Max Grade (at SLW)		28%	25%
Horsepower	Peak	322	322
	Continuous	275	275
Motor	Single 240kW permanent magnet drive motor	•	•
Gearbox	4-speed EV transmission	•	•
Curb Weight	lbs	30,900	35,300
Max Gross Vehicle Weight Rating	lbs	43,650	43,650
CHARGING			
Max Plug-in Charge Rate at 200A	kW	147	147
Max Plug-in Charge Rate at 300A	kW	221	221
Max Overhead Charge Rate at 500A	kW	370	370
Overhead Charging***	Miles replenished per 10 min**	24	21
	Est. time 0-80% at 450 kW	1.3 hrs	1.9 hrs
Plug-in Charging***	Est. time 0-80% at 150 kW	2.6 hrs	3.9 hrs
	Est. time 0-80% at 180 kW	1.9 hrs	2.9 hrs
VEHICLE DIMENSIONS			
Length (over bumpers)		510"	
Roof Height		129.5"	
Width (without mirrors)		102"	
Width (with mirrors)		116"	
Wheelbase		296"	
Approach Angle		9.3°	
Breakover Angle		7.8°	
Departure Angle		9.3°	
Turning Radius		516"	
*Operating range and efficiencies approximated from simulations based on 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 0-80% as displayed on driver dashboard.			

	Description
INTERIOR	
Seating Capacity	40
Clear Door Width	Front 33.75", Rear 43.5"
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
Tire Size	315/80R22.5
Exterior Lights	LED
BRAKES & SUSPENSION	
Braking System	Front & rear air disk brakes
Regenerative Braking	Standard
Traction	4-wheel ABS with 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
Plug-in Charging	Universal standard J1772-CCS
Overhead Charging	Optional; Universal standard J3105
ADA	
	Two ADA locations, one on each side of the aisle directly behind the front wheels
	ADA securement system
	Front electrically operated 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	Standard: 6 years Extended: 12 years