



# Battery pack 440 kWh

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The latest model tested at the Altoona Bus Research and Testing Center was the Proterra Catalyst E2 35-foot (10.7 m) with the biggest battery pack (440 kWh) ever tested by Altoona in a 35-foot size.

Proudly designed and manufactured in Silicon Valley, Proterra battery systems are lightweight, compact, safe and powerful. Proterra battery packs are made of strong and lightweight ballistic-grade materials designed to withstand the toughest conditions through rigorous battery and vehicle testing and validation programs."

"Proterra has tested more battery-electric vehicles at Altoona than any other manufacturer and was the first electric vehicle manufacturer to complete Altoona testing with a battery-electric bus. Proterra also has a history of setting industry standards. Previously, the Proterra Catalyst(R) E2 Max bus exceeded the world record for driving the longest distance ever traveled by an electric vehicle on a single charge."

"The FTA sets the standard of excellence in vehicle testing and with every new generation of Proterra electric buses, we are committed to setting competitive industry benchmarks for energy efficiency, vehicle stability, safety and durability. The electric vehicle industry is fortunate to have facilities like Altoona to ensure that electric transit vehicle technology is high performing and thoroughly tested."

It's hard to believe that it's already 5th generation, but Proterra has been on the forefront of bus electrification for a decade. The first buses were delivered to Foothill Transit in California in 2010 (see videos on the bottom).

"As communities move to electrifying their entire transit fleets, Proterra's new ZX5 battery-electric transit bus is designed for full fleet electrification, manufactured for scale, and built from the ground up with a refined composite bus body design and an emphasis on safety, durability, and performance."

According to the manufacturer, the ZX5 is equipped with the highest battery capacity (up to 660 kWh) and range among electric transit buses (up to 329 miles / 529 km). The two other battery options are 440 kWh and 220 kWh.

So far, Proterra sold or received orders for electric buses from more than 120 customers throughout North America and its vehicles covered more than 13 million miles in service.

"A decade ago, Proterra delivered its first battery-electric transit bus. We were at the start of the transportation electrification revolution in North America. As more cities and states make the commitment to 100% zero-emission fleets, Proterra is introducing new vehicle and battery technology to meet the needs of our customers. Today, we are excited to unveil our fifth-generation electric transit vehicle, the Proterra ZX5, which is designed to tackle the toughest routes and terrains across North America,".

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The company has developed a new "advanced protective battery packaging designed for easy install and simpler serviceability." The liquid-cooled battery systems (produced in-house) are ready to "plug in" or "unplug" individual battery packs:

"New Flyer manufactures its own batteries in its bus production facilities. The battery packaging, developed by New Flyer, utilizes single waterproof enclosure design and offers weight reduction and simpler maintenance, decreasing the number of parts by 90%. Its streamlined approach also allows technicians to simply "plug in" or "unplug" individual battery packs, significantly reducing bus downtime and allowing easy replacement as needed in future."

The New Flyer Xcelsior CHARGE NG is equipped also with a new Siemens ELFA 3 traction system, which weighs 69% less than the previous ELFA 2 and improves regenerative braking - "up to 90% energy recovery".

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