




PROTERRA
POWERED™


JOULE™

Thomas
BUILT BUSES™

POWERING THE FUTURE



Partners in possibility.

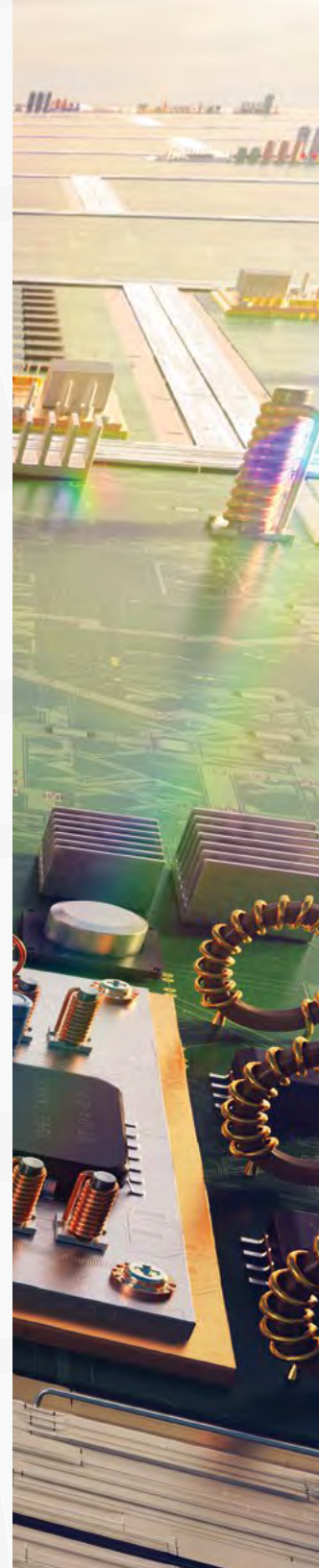
Thomas Built Buses has been moving the industry forward for more than 100 years. Now we're driving it in a whole new way with the Saf-T-Liner® C2 Jouley™ electric bus, powered by Proterra® technology.

Jouley has everything customers love about the Saf-T-Liner C2 bus. Industry-leading visibility. Low instrument panel. A-pillar windows. A driver-friendly environment. With Proterra's proven battery and drivetrain technologies, we're taking that legacy of excellence further.

Welcome to zero emissions. Welcome to sustainable solutions. Welcome to the new frontier of possibility.

BUILDING TOMORROW.

Great things happen when greatness comes together. Jouley is designed and manufactured in High Point, North Carolina by Thomas Built Buses, the leading school bus manufacturer in North America. It rides on a chassis manufactured by the renowned Freightliner Customer Chassis Company (FCCC) in Gaffney, South Carolina. It's powered by a battery and electric drivetrain from Proterra, a leader in the design and manufacture of zero-emission electric vehicle technology solutions. Together these teams deliver manufacturing expertise, production efficiencies and unparalleled quality. Translation: everything you're looking for.



Designed by an engineering team with deep automotive expertise in ground-up EV design and platform adaptation, Proterra® batteries check all the boxes:



SAFE

- Designed specifically for safe operation in heavy-duty transportation
- Enclosed in ballistic-grade materials that can withstand the toughest conditions
- Rigorously tested and third-party validated



SMART

- Liquid-cooled to ensure optimal operation in any climate
- Multiple sensors for continuous monitoring
- Dynamically adjust over time for maximum performance



EFFICIENT

- Highest efficiency for maximum range
- Compact design for industry-leading energy density
- DC charging yields a full charge in approximately three hours



PROVEN

- Record-breaking range for heavy-duty vehicles
- Efficient, smart, safe drivetrain technology for optimal performance in any climate



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Follow the leader.

Founded in 2004, Proterra is a leader in the design and manufacture of zero-emission, heavy-duty EVs and charging systems. The proof? Proterra has sold hundreds of battery-electric transit buses across the U.S. and Canada, and its batteries and drivetrains have proven performance through well over ten million miles in service.



Helping you navigate the path to EV implementation.

The route to EVs is complex, especially when it comes to infrastructure. The good news: Thomas Built Buses is the Electric Bus Authority. Our team of EV specialists has the experience, expertise and partnerships to help you navigate the route to electric bus implementation.

With the Jouley electric school bus, Proterra charging systems, turn-key infrastructure installation and our expertise, we provide a comprehensive solution to electrify your school bus fleet. The Proterra Energy™ team has experienced engineering and project management experts who work with schools to design and implement the best infrastructure installation for their depot, managing the whole process from start to finish and providing a scalable, ready-to-roll solution.



WITH US, YOU CAN EXPECT:

- Electric expertise of Proterra and Thomas Built Buses
- Charging infrastructure management
- Clean, reliable energy
- Purpose-built charging hardware

Getting you charged up.

While Jouley is compatible with most DC charging stations, Proterra's industry-standard technology makes charging easy, fast and efficient.

A 60kW plug-in DC charging solution enables a full charge of your school bus in approximately three hours. Proterra also utilizes industry-standard J1772 CCS Type 1 universal connectors. With additional dispensers, up to four buses can be charged in automated sequence in approximately 12 hours.

Proterra's DC charging solution is optimized for bi-directional power flow, with inverters integrated into the charger rather than on the bus. In addition, the Power Control System can be installed up to 500 feet from the dispenser for space optimization. Bottom line: we don't just get you on the road to sustainability. We keep you there.





Zero emissions. Endless possibilities.

When it comes to transportation, green is in—and for good reason. Electric vehicles offer zero tailpipe emissions, lower operating costs, easier maintenance, a quieter ride and more. These benefits have inspired widespread industry adoption, with more cities moving toward battery-electric transit. And barriers for implementation have fallen by the wayside as battery range increases, prices decrease and funding opportunities roll in.

With Jouley, school districts can count on:

- **SAVING MONEY** – Fuel costs are lower because electricity costs are more stable.
- **BETTER PERFORMANCE** – Electric motors have fewer moving parts, no liquid fuels, and no oil changes, making maintenance simpler and less expensive.
- **ZERO EMISSIONS AT THE TAILPIPE** – 100% battery-electric reduces the emission of harmful gases into the atmosphere, reduces exposure to emissions, improves air quality, and offers health benefits for students and the community.
- **QUIETER RIDE** – No engine means no rattling or loud noises from under the hood, allowing drivers to focus and reducing noise pollution in your community.
- **MAXIMUM RANGE** – Regenerative braking provides additional energy to batteries while driving for maximum range. And with low daily mileage, predictable, planned routes and midday downtime, you don't have to worry about vehicle range.
- **PROVEN PERFORMANCE** – Proterra® drivetrains deliver unparalleled performance and greater fuel economy.
- **V2G CAPABILITIES** – Jouley has the potential to be used as a stationary energy storage system, with applications such as charging during off-peak hours and putting energy back on the grid during peak hours when needed by utilities.



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Ready? Let's go.

VEHICLE SPECIFICATIONS

TOTAL ENERGY (kWh)	220
OPERATING EFFICIENCY*	kWh/mile - 1.4 MPGe – 24.6
RANGE*	Up to 135 – Operating range in miles usable energy**/efficiency
TOP SPEED	65
ACCELERATION	49
HORSEPOWER	295 peak, 170 continuous
MOTOR	Proterra ProDrive drivetrain; single 220kW permanent magnet drive motor
TRANSMISSION GEARBOX	Proterra 2-speed auto shift EV gearbox
BATTERY THERMAL MANAGEMENT SYSTEM	Liquid cooled
BATTERY PACK ENCLOSURE	Ruggedized 10mm thick aluminum
BRAKING SYSTEM	Regenerative braking, air disc brakes
STARTABILITY	19% grade

CHARGING SPECIFICATIONS

TYPE	Plug-in, DC fast charging
STANDARD	J1772 CCS Type 1
CHARGE POWER	Up to 60kW
CHARGING TIME (EMPTY TO FULL)	Approximately 3 hours with 60kW charger

WARRANTY

BATTERY CAPACITY	8 years / 175,000 miles / 200,000 kWh of gross discharge throughout per pack
BATTERY MATERIALS & WORKMANSHIP	8 years / unlimited miles
DRIVETRAIN	5 years / 100,000 miles
EXTENDED WARRANTY FOR BATTERY & DRIVETRAIN AVAILABLE	up to 10 years

* will vary with route conditions, weather, vehicle configuration and driver behavior.

**all vehicle batteries must be limited to usable capacity, to decrease degradation and optimize longevity.

Ideal for in-town routes—not to mention the planet—the Saf-T-Liner C2 Jouley is the latest chapter in our joint commitment with Proterra and Daimler to provide proven, sustainable solutions. And it's the next step for school districts ready to run greener—on less green.

To start your electric school bus journey, visit ThomasBuiltBuses.com/Electric. We'll be with you, every mile of the way.

