



Nine Years Later: Long-Term Rider Report Highlights Lightning's Engineering Excellence

While speculation often surrounds the longevity of high-performance electric motorcycles, Lightning Motorcycles believes the most accurate data comes from the road.

This week, we received a milestone update from an owner who has been riding their **Lightning LS-218** since April 2016. After nearly a decade of ownership, the report was remarkably simple:

“Sun is out. Took my bike for a ride. Since I’ve had my LS-218, I don’t have any issue except changing the chain when needed.”

A Legacy of Durability and Innovation

Nine years of consistent performance with only standard wear-and-tear maintenance is a result of **engineering excellence**. At Lightning, we lead the 2-wheel EV market by building machines that don't just break records, but stand the test of time.

Evolution of the World's Fastest Production Motorcycle

Feature	2016 LS-218	2025 LS-218	Technological Milestone
Max Horsepower	200 hp	244 hp (at rear wheel)	High-efficiency IPM motor and Lightning firmware
Charging Tech	J1772 (Level 2)	CCS + J1772 Combo	Added DC Fast Charging.
Charging Speed	~120 mins (Level 2)	11 minutes (20%–80%)	Industry-leading charging velocity.
Battery Tech	Standard Li-ion	Silicon-Anode (Optional)	+30% Energy Density for extreme fast charging.
Max Range	~100 miles (Hwy)	Up to 335 miles*	Enabled by the 28.3 kWh battery option.



Feature	2016 LS-218	2025 LS-218	Technological Milestone
0-60 MPH	~2.2 seconds	< 2.0 seconds	Optimized power-to-weight ratio.

**Range estimate based on the optional 28.3 kWh battery pack under normal riding speeds and conditions.*

Leading the 2-Wheel Revolution

Lightning Motorcycles was born from competition—winning at Pikes Peak and Le Mans—but our true victory is found in the daily lives of our riders. We continue to push the boundaries of what is possible:

- **The 11-Minute Milestone:** While our 2016 models relied on the J1772 standard, the 2025 LS-218 features a **CCS and J1772 combination**. When equipped with our **Xtreme Fast Charge (XFC) system**, the bike can charge from **20% to 80% in just 11 minutes**, effectively matching the "pit-stop" experience of a gas-powered motorcycle.
- **Optional Silicon-Anode Technology:** In partnership with Lightning battery partner, we offer an industry-first Silicon-Anode battery option. This cutting-edge chemistry provides 30% more energy density than traditional cells, allowing for higher capacity without the weight penalty.
- **Extended Range Capability:** For riders looking to go the distance, our optional 28.3 kWh battery pack delivers up to 335 miles of range (under normal riding conditions and other factors that impact range). This high-capacity system ensures you spend more time on the road and less time at the cord.
- **Proven Longevity:** As our 2016 riders prove, our Liquid-Cooled Thermal Management ensures that the battery and motor remain healthy and high-performing for a decade and beyond.

Our Commitment

We invite anyone curious about the electric transition to look past the speculation and listen to those who have real miles, real stories, and real results. **Innovation is in**



Lightning's DNA, and we continue to push technology to its absolute limits to create a better, more powerful riding experience for every mile ahead.