

LION5

Designed specifically for
All-Electric Ambulance



Technical Specifications*

Weight and Dimensions

Cabin length – BBC	74.3 in. (188.7 cm)
Cabin height	93.2 in. (236.7 cm)
Wheelbase	140 in. (355,6 cm)
Gross vehicle weight rating (GVWR)	21,500 lb. (9,752 kg)

Chassis

Front approach angle	18 degrees
Lowering capacity	3.2" (7.5 cm)
Front axle	Meritor MFS-10
Rear axle	Dana S130 with Limited-slip
Front and rear suspension	Adaptive independent
Braking	4-wheel hydraulic disc brakes with ABS/ ESC/ TCS/ Hill Start Assist/ Electric Parking brake

Electric Powertrain

Top speed	74.5 mph (120 km/h)
Maximum power	235 kW • 315 HP
Maximum torque	3,318 Nm • 2,447 ft-lb
Battery capacities	210 kWh
Motor and inverter	SUMO MD DANA TM4
Transmission	Direct drive • No transmission
Maximum charging power	100 kW¹
Recharge time up to 100 kW	From 40% to 80%: 0.78 h (47 minutes)
	From 80% to 90%: 0.26 h (15.5 minutes)
	From 90% to 100%: 1.5 h (91 minutes)
Plug-in charging location	Passenger side, above cab entry step

* SPECIFICATIONS ARE SUBJECT TO CHANGE.

¹ The vehicle automatically limits the charging power to extend battery life. This means that the vehicle can easily be connected to a charging station with a capacity higher than this limit.

The purpose of much of the research being conducted is to push the limits that the software controls to allow even faster charging. This is why clients should adopt a long-term strategy for selecting charging stations based on ambulance deployment.



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The world's first chassis specifically designed for ambulances.

An ambulance with greater driveability

- Wider field of view
- Overall height excluding antennas (108")
- Better turning radius compared to a Ford E-350
 - Curb to curb: 22.7 ft vs 27.4 ft
 - Wall to wall: 24.5 ft vs 28.1 ft

Adaptive suspensions for easier patient pickup and drop-off

- LiquidSpring suspension specially developed for eFX
- 3.2" kneeling capacity

Additional cabin heating unit so EMTs are comfortable

Optional

- Espar Airtronic B4L (gas) with a 3.96 gal roadside tank
- 3.8 kW power
- Brushless motor
- Between 0.048 and 0.14 gal/h consumption
- Range at maximum use: 20 hours

Braking system

- Regenerative braking system
- ConMet PreSet ABS brakes
- Parking pawl systems

A single battery configuration for outstanding reliability on the road

- 3 Lion battery packs, 70 kWh each.
- Unique staggered configuration allowing the access door to be curbside and optimizing the weight distribution.
- Our patented battery thermal management system is designed to work with Lion's batteries and withstand the harshest climates.

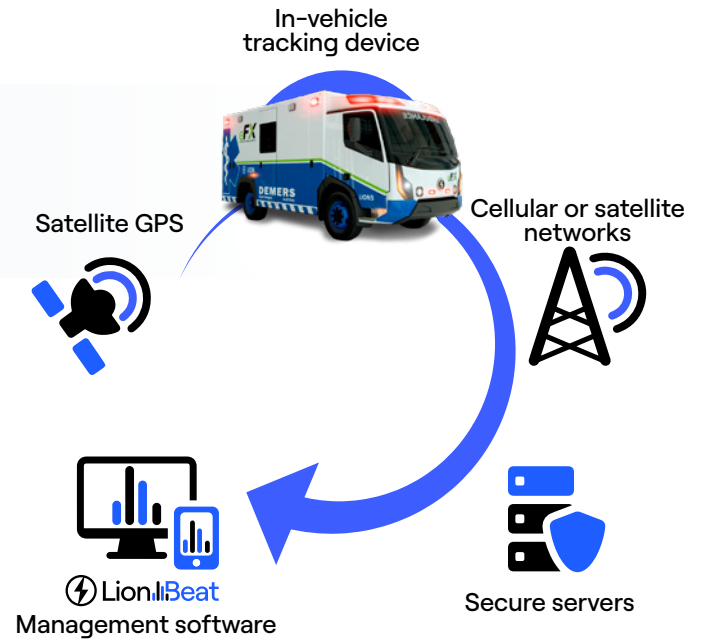


Optional

LIONBeat

Telemetry to help you manage your fleet in real time

- Real-time monitoring and diagnostics
- Preventive maintenance plans
- Battery health testing
- Low voltage battery monitoring
- Driver behaviour
- Product knowledge and improvement



A spacious,
more ergonomic interior
designed for EMTs.

A more comfortable cabin for EMTs

- More spacious compared to conventional ambulance cabs
- Better seating and more legroom for passengers
- More shoulder room to move more freely
- Greater seat reclining capacity
- Captain National seats with pneumatic lumbar support, ratcheting armrests and a more flexible reclining angle

A safer, more ergonomic work area

- Better front and side visibility on the road
- Steering wheel controls with integrated ambulance functions
- Easier access to electronic interfaces and charging ports



When versatility meets sustainability

Designed and built to be 100% electric, the **LION5** chassis takes the zero-emission vehicle to a whole other level of application. Our chassis is agile and versatile like the Swiss Army knife of Lion's 100% electric vehicle lineup. You can go just about anywhere with no emissions.

The **LION5** is efficient and durable, giving you a powerful combination of unmatched performance and exceptional savings.

LionExperience is:

- Turnkey service assistance throughout the grant process
- Project management for implementing charging infrastructures
- Complete training customized to your needs
- Purpose-designed EV telematics system

Savings Electric vs. diesel



80%

Energy cost reduction



60%

Maintenance cost reduction

- 1 Zero-emission solution
- 2 Proven safety record
- 3 Lowest total cost of ownership
- 4 Reduction of maintenance downtime
- 5 Unparalleled driving experience
- 6 Best-in-class driving experience
- 7 No noise pollution



Make your next move
a bright one.



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