LION5

Designed specifically for
All-Electric Ambulance

eFX
DEMERS AMBULANCES

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 in.** (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	**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 kW** [1]
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 in.)
- 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 in. kneeling capacity

Additional cabin heating unit so paramedics are comfortable

Optional

- Espar Airtronic B4L (gas) with a 15-litre roadside tank
- 3.8 kW power
- Brushless motor
- Between 0.18 and 0.54 L/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.
- Batteries manufactured in Canada by Lion limiting supply risks.
- Our patented battery thermal management system is designed to work with Lion's batteries and withstand Canada's harshest climate.

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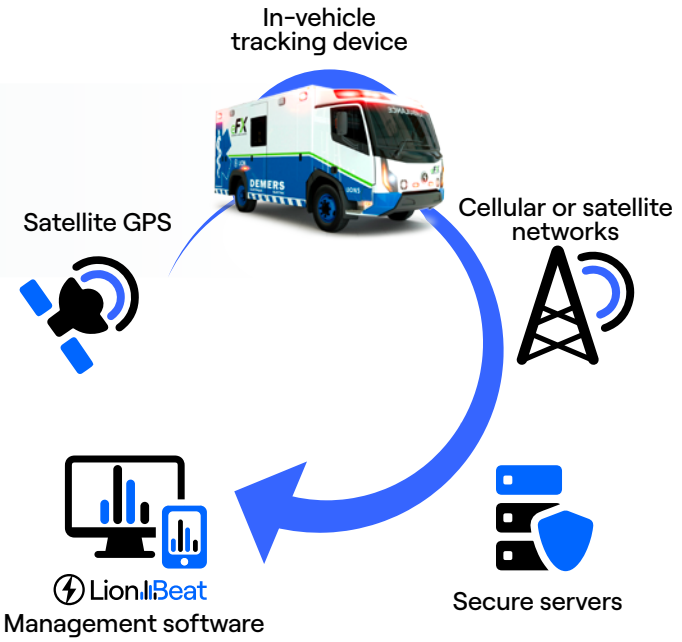
Optional

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 paramedics.

A more comfortable cabin for paramedics

- More spacious compared to conventional ambulance cabs
- Better seating and more legroom for passenger
- 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. Best-in-class driving experience
6. No noise pollution

Make your **next move** a **bright one.**

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