



**Press release  
June 2011**

**Liberty Electric Cars pioneers the 2<sup>nd</sup> generation of EVs with the world's First Pure Electric, Luxury 4x4, the Liberty E-Range**

**Liberty Electric Cars have pioneered the second generation of electric vehicle technology with its Liberty E-Range.** Second generation electric vehicle architecture places the electric motor as close to the driven wheel as possible, driving through a reduction gear box as opposed to the first generation where the electric motor replaces the combustion engine and drives through a traditional gearbox/differential arrangement. **Liberty is now developing third generation EV technology** removing the need for the reduction gearbox which eliminates unnecessary vehicle weight and complexity leading to a greater range and better reliability.

The Pure Electric Liberty E-Range is initially based on a Range Rover\* and is aimed at the family-size and luxury vehicle market.

***"The Liberty Pure Electric E-Range accelerates from zero to 60 in about seven seconds, reaches a top speed of 100mph, and has a range of 200 miles on one single charge – this is the upper end of the range that any current EV is able to achieve. In short, the vehicle enables the consumer to enjoy the power, prestige and luxury of the iconic Range Rover without the cost to the environment,"*** said Liberty Electric Cars Founder and CEO Barry Shrier.

**Liberty Electric Cars is at the forefront of electric vehicle development.** The proprietary and patented technology works by engineering electric propulsion into existing vehicle platforms, replacing the internal combustion engine with electrical power via four motors (one per wheel).

**The unique energy storage system features a world beating battery management solution.** At 75kw, the **LEC battery pack is the largest ever installed in an electric car,** and due to the technology employed, weighs less than many lower capacity packs. The energy density, unusually large cell size and fast charging times are also class leading and contribute to the performance of the vehicle.

Re-generative braking capacity means that the batteries are charged during braking. Optional roof-mounted photovoltaic cells provide a trickle charge for ancillary items, such as air conditioning, even when the vehicle is stationary.



**The lithium polymer battery pack is easily recharged by cable, from standard, fast and rapid charging solutions** or by **the wireless charging**: the car is simply parked over an induction plate and charges automatically without the need for plugs or power leads. **The battery and motors have an estimated lifespan of 300,000 miles or 13 years**, and due to its unique design and cell structure, is one of the safest EV battery packs available on the market today.

#### **MAIN FACTS OF THE LIBERTY E-RANGE**

200 mile range on a single charge

Acceleration of 0-60 in circa 7 seconds

Top speed of 100 mph

Overnight charging from a standard electricity supply

75 KW battery pack, largest ever installed in an EV with no compromise on interior space

Battery and motor lifespan of circa 300,000 miles

4 wheel motor architecture





## **Contact**

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## **About Liberty Electric Cars**

Liberty Electric Cars is a clean technology company based in Coventry, which is designing, engineering and manufacturing leading-edge electric vehicle technologies to serve growing demand for zero-emission transport solutions in markets around the world. Its experienced highly skilled engineers count some 200 man years of automotive engineering experience and in particular 70 man years of experience in EV technology. They have created EVs that have driven over 2,500,000 miles - the greatest distance and thus one of the best experience of any electric vehicle team in the world. Liberty's innovative, patent-protected new electric vehicle drivetrain technologies can be employed in a wide variety of vehicle platforms (trucks, buses, 4x4s, SUVs, MPVs, pick up trucks). The company's engineering activity known as "Liberty E-Tech" has been consolidated into its new Innovation & Customer Support Centre based in Coventry. In addition, Liberty Electric Cars has created a support and maintenance programme, "Liberty E-Care", to provide a high level of after sales service to EV customers globally.

Liberty Electric Cars has demonstrated its technical superiority in EV platform technology with the launch of its flagship product, the Liberty E-Range. This is the world's first pure electric, luxury 4x4 that has a range of 200 miles on a single charge – this is the upper end of the range that any current EV is able to achieve.

\*Liberty Electric Cars is not related to, or endorsed by, Land Rover PLC

\*\*in line with automotive industry definition of zero emissions at the tailpipe