

Battery testing spain

The battery is the key component of the electric vehicle. As demand for electric cars and vehicles increases, manufacturers need to be confident the high-voltage batteries they use meet international standards for safety, reliability, endurance, and performance.

We are involved in various research projects involving lithium batteries as well as the battery standardization committees DKE, VDA and IEC.

All batteries must pass the UN 38.3 transport test, which is carried out in line with our DIN/EN/ISO/IEC 17025 accreditation. We also offer:

Detailed specifications can also be tested, including:

All battery tests are conducted in accordance with international standards and original equipment manufacturer (OEM) specifications including ISO, IEC, UN ECE, SAE, LV, AK and many more. We can also perform bespoke tests to customer requirements if required.

Electromobility is undergoing rapid technological change. As well as being actively involved with standardization bodies, we offer full consultancy and testing services, helping manufacturers create efficient, economically viable electric vehicles and cars.

With ISO/IEC 17025 laboratory accreditation, lithium battery expertise and over 30 years' experience of the requirements and test methods of vehicle manufacturers, we can meet all your battery testing needs.

In order to guarantee the optimal storage of electrical energy, the battery testing laboratory has the appropriate equipment and qualified personnel with 30 years of experience, focused on the testing of lithium batteries from the cell to the pack level.

Semi-accelerated studies are carried out in order to test the evaluation of battery degradation and to investigate new models that allow greater energy efficiency. This is done through a combination of electrical and climate testing.

Battery safety tests are also carried out, using thermal and mechanical abuse equipment, to evaluate the response to conditions outside the range of use. In addition, it has the capacity to characterize batteries and carry out regulatory tests.

The aim is to provide innovative projects with the facility to validate models that simulate the electrochemical, electrical, thermal and mechanical behaviour of the battery. The combination of simulation tools and testing



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equipment allows to investigate improvements in the performance and safety of batteries (for cells, modules and packs) and their components, from pre-design stages to prototyping.

Our goal is to help companies, manufacturers and users of lithium batteries to cover all stages of the value chain, accelerating processes and reducing testing costs, allowing companies at any stage of the lithium battery market to be more competitive. In this way, thanks to the simulation tools available at ITE, you will be able to optimize pre-prototyping designs and testing equipment, product characterization and evaluation.

Contact us for free full report

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