

Electrical Battery Tests DEKRA Battery Test Center

Battery reliability and efficiency are critical to modern applications. Electrical stresses such as high voltages and currents can affect battery performance and safety. Our electrical testing ensures that your batteries can withstand demanding conditions while maintaining their functionality. We test your batteries using the most advanced methods to detect risks early and promote their safety in the long term.

Why is DEKRA the right choice?

- **Extensive Experience:** Our experts have many years of experience in conducting electrical battery testing.
- **State-of-the-Art Test Environment:** Our Battery Test Center is equipped with the latest technology - for accurate and reproducible test results.
- **Regulatory Expertise:** We ensure your products meet international standards and help you comply with all relevant regulations.
- **Holistic Approach:** We provide one-stop testing for all phases of the battery life cycle.
- **Global Network:** Benefit from our international presence and extensive battery testing expertise.

Service Overview

The demands on batteries in electric vehicles are high: they must not only be powerful, but also reliable under various conditions. Our electrical testing is based on international standards and provides comprehensive testing for battery cells, modules and packs. With up to 1 MW of power, we test your batteries under extreme loads, creating realistic conditions for accurate analysis. The combination of vibration and climate testing allows for a thorough assessment of durability. In this way, our test procedures ensure that your battery systems meet market requirements and comply with the highest quality and safety standards.

Overview of Our Tests

- **Lifetime and Performance Tests:** Testing batteries under various climatic conditions. With 500 kW power per channel and 1200 V as well as 100 A, scalable up to 1 MW per test, we enable comprehensive testing at the battery module and battery pack level – with efficient energy use between test units.
- **Electrical Abuse Tests:** Simulation of extreme conditions such as short-circuiting, overcharging or deep discharging - including transient peak currents in excess of 1000A to assess battery safety behavior.
- **Thermal Abuse Tests:** Testing under extreme temperature conditions to ensure battery resistance to thermal effects.

Our electrical testing ensures reliable performance testing of your cells, modules and battery systems. By identifying weaknesses early under extreme conditions, we help you meet international standards and minimize the risk of failure. In this way, we support a fast and successful market launch of your products.

At the DEKRA Battery Test Center, we test your products under realistic conditions with the highest precision. Contact us for customized solutions!

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Our tests ensure that your batteries can withstand electrical stress.
Learn more about our comprehensive testing solutions now!

