



Accreditation

Our national and international recognition by accreditation bodies ensures the high quality of our work. Our reports, declarations and certificates are accepted worldwide.

Since 2011 Kiwa Primara has been accredited by the Deutsche Akkreditierungsstelle GmbH (DAkkS) according to DIN EN 17025 and DIN EN 17065 to test and certify electrical equipment. In addition, we offer testing and certification in the IECCEB Scheme procedure and are a recognized GS certification body.

kiwa.com/primara



Why KIWA Primara?

- **Globally active!** - We are Kiwa, one of the world's 15 leading providers of testing, inspection and certification.
- **DAkkS /IECEE-CB** accredited testing laboratory
- Certificates of conformity for national and international standards
- Multiple environmental, mechanical and electrical test benches
- Fast and worldwide market access
- **Expertise** - Extensive global network offers a wide range of alternative testing options
- **Time To Market** - We meet your deadlines
- **Quality** - High-quality measuring equipment and trained personnel with many years of experience
- **Service** - Professionals with technical background who understand your needs precisely

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Battery testing with KIWA

Testing and certification services for
batteries, cells and storage systems

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Battery testing *with KIWA*



Battery Testing with Kiwa

Battery and Cell Testing with Kiwa
At Kiwa Primara, we understand the importance of having batteries that are not only reliable and efficient but also safe for use in a variety of applications. Our laboratory holds both DAkkS and IECEE-CB accreditations, which are recognized as some of

the most stringent and respected in the industry. This means that you can trust our test results and be confident in the quality of our services. Our team of experts is dedicated to delivering accurate and reliable test results that help you optimize battery performance and ensure the safety of your products.

Testing and certification

The batteries are high-quality autonomous current sources that can be used in a high variety of devices. At our laboratory, we offer testing and certification services for batteries and

cells of different chemistries, including those used in stationary, portable, automotive, and industrial applications. Our extensive scope of testing includes industry-leading standards such as:

- **IEC 62133-1** and **IEC 62133-2** for Nickel and Lithium batteries and their cells used in portable end-products
- **IEC 62619** for Lithium batteries and their cells for industrial application
- **IEC 62620** Secondary lithium cells and batteries for use in industrial applications
- **IEC 62984** High-temperature secondary batteries - Sodium
- **IEC 63056** for secondary lithium cells and batteries for use in electrical energy storage system
- **IEC 63057** for Secondary lithium batteries for use in road vehicles not for the propulsion
- **UN38.3** and **IEC 62281** for transportation Testing of Lithium Batteries
- **IEC 61960-3** for performance testing of secondary cells and batteries
- **IEC 62660 -1/ 2/ 3** for Secondary lithium-ion cells for the propulsion of electric road vehicles
- **IEC 61427** for the performance of secondary cellss and Batteries for renewable energy storage
- **UL2271** for LEV application batteries
- **UL1642** and UL2054 for primary and secondary lithium cells and batteries
- **UL1973** for Stationary and Motive Auxiliary Power Applications batteries
- **RTCA DO 311A** for minimum Operational Performance Standards for Rechargeable Lithium Batteries and Battery Systems
- **UL9540** Energy Storage Systems and Equipment
- **IEC 60730-1, Annex H** Automatic electrical controls – Functional Safety
- **DIN EN 50604-1** Secondary lithium batteries for light EV (electric vehicle) applications
- **ISO 12405-4** Electrically propelled road vehicles — Performance testing

Battery testing *with KIWA*

Testing and certification

- **ISO 6469-1** Electrically propelled road vehicles — Rechargeable energy storage system (RESS)
- **ECE R 100** Uniform provisions concerning the approval of vehicles with regard to specific requirements for the electric power train
- **RT 136** Approval of vehicles of category L with regard to specific requirements for the electric power train
- **RTCA DO-347** Small and Medium Sized Rechargeable Lithium Batteries and Battery Systems
- **VDE-AR-E 2510-50** Stationary energy storage systems with lithium batteries

Performance

At Kiwa Primara, we specialize in providing comprehensive cell performance evaluations that meet both international standards and your specific end-product application requirements. Our testing services are designed to help you meet upcoming battery regulations and achieve the highest levels of performance. We offer a range of testing options, including the provision of test reports or raw data for critical factors such as capacity, internal resistance, temperature, and other relevant

details. Our laboratory features the latest testing equipment and can run up to 80 channels simultaneously, with each channel offering 5V/50A and the possibility of parallel configuration up to 1000 A.

Our team of experts is committed to delivering accurate and reliable test results that help you optimize battery performance and achieve compliance with relevant regulations. Contact us today to discuss your specific testing needs and find out how we can help you achieve your goals.