



# Testing & Certification of Battery Storage Systems

The transition to a sustainable and responsible use of renewable energy sources requires safe and reliable battery storage systems.

To ensure safety and performance, VDE Renewables offers testing and certification according to international standards, guidelines and application rules as well as testing to your specifications at cell-, module- and system level for your energy storage system.

[www.vde.com/battery-testing](http://www.vde.com/battery-testing)

**VDE** RENEWABLES

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In our ISO/IEC 17025 accredited test laboratories we perform standard-based testing from product development to market approval. VDE's tests and certifications for battery storage systems facilitate your access to world markets and secure competitive advantages.

A precondition for placing stationary battery storage systems on the market is compliance with the relevant directives and standards. Proof of compliance must be shown by a declaration of conformity. Required testing is based on the following standards, among others:

- **IEC 62619**  
Safety requirements for secondary lithium cells and batteries, for use in industrial applications
- **IEC 62620**  
Secondary lithium cells and batteries for use in industrial applications
- **IEC 63056**  
Safety requirements for secondary lithium cells and batteries for use in electrical energy storage systems
- **VDE-AR-E 2510-50**  
Stationary energy storage systems with lithium batteries – Safety requirements

- **UN 38**  
Transport test ST/SG/AC.10/11/Rev.7 Manual of tests and criteria
- **UL 1973 – screening**  
Batteries for use in stationary and Motive Auxiliary Power Applications
- **UL 9540A – screening**  
Evaluation of thermal runaway fire propagation in battery energy storage systems
- **DIN EN 61427-1**  
Rechargeable cells and batteries for the storage of renewable energies - Photovoltaic off-grid application

The CB scheme facilitates the recognition of test reports when applying for national safety certifications of electrical products in more than 50 IECEE member countries. Our in-house VDE certification authority will take care of the certification of your storage system after successful completion of the tests.

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Please visit us online for more information



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