

Copenhagen battery testing

På grund af en teknisk fejl kan din henvendelse desværre ikke modtages i øjeblikket. Du er velkommen til at skrive en mail til Send e-mail eller ringe til +45 72 20 12 64.

If you have specific requirements to battery size, temperature area, lifetime etc. we give recommendations on this based on newest knowledge.

The right battery choice is often the most obvious difference on batteries. However, there is great difference between capacities at different operating conditions, quality, lifetime, self-discharge and safety. We help finding answers within all of this.

We offer test and counselling In the battery laboratory we characterize battery cells and battery packs at different operating conditions and climatic conditions. We can, for example measure the energy content, test lifetime, degradation and safety. We also offer advice if a lead battery is desired replaced with a lithium-ion battery.

Within the mobile area, we deal among other things with electric scooters, bikes and cars. We also undertake maritime tasks, tasks with stationary battery storage for solar cells and wind turbines as well as grid-connected battery storage systems.

We have a well equipped battery laboratory offering both standardized and customer-specific battery tests. Our specialists cooperate with chemical and motor engineering laboratories, so the battery pack characteristics, its inner chemistry and interaction with other components of the design can also be tested and analyzed by us.

How can Danish Technological Institute help you?

Thanks to the available infrastructure, it is possible to test and evaluate the performance of batteries in the same conditions as they would encounter in electric vehicle, grid support (e.g., frequency control, peak shaving etc.), or uninterruptable power supply applications. Furthermore, commercial, prototype, or home-made battery management systems (BMSs) can be tested in a safe and reliable environment.

Up to 58 battery cells (6V/ 50A) and two battery packs (100V / 100A) can be tested simultaneously using five state-of-the-art battery test stations. Furthermore, three electrochemical impedance spectroscopy (EIS) analyzers are available for dedicated tests. All the battery testing is carried out in twenty climatic and temperature chambers of various dimensions, which besides offering increased safety, allow reliable temperature control in the range -30°C to 80°C. Moreover, a world-class isothermal calorimeter is available for determining the thermal behavior of batteries.

Using a 16-cells battery emulator, commercially available or prototype BMSs can be tested and debugged in a safe environment.

The Battery Systems Test Lab can be used by academia and industry as a powerful tool for enhancing the understanding of behaviour of batteries in real-life applications. In fact, the lab allows for various activities, from battery electrical and thermal characterization to battery lifetime testing and lifetime estimation, which subsequently facilitates the battery screening process and development of optimized battery energy management strategies.

You need to be registered as a Danish company, organization, institution or public sector entity to join State of Green.

Contact us for free full report

Web: <https://kary.com.pl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

