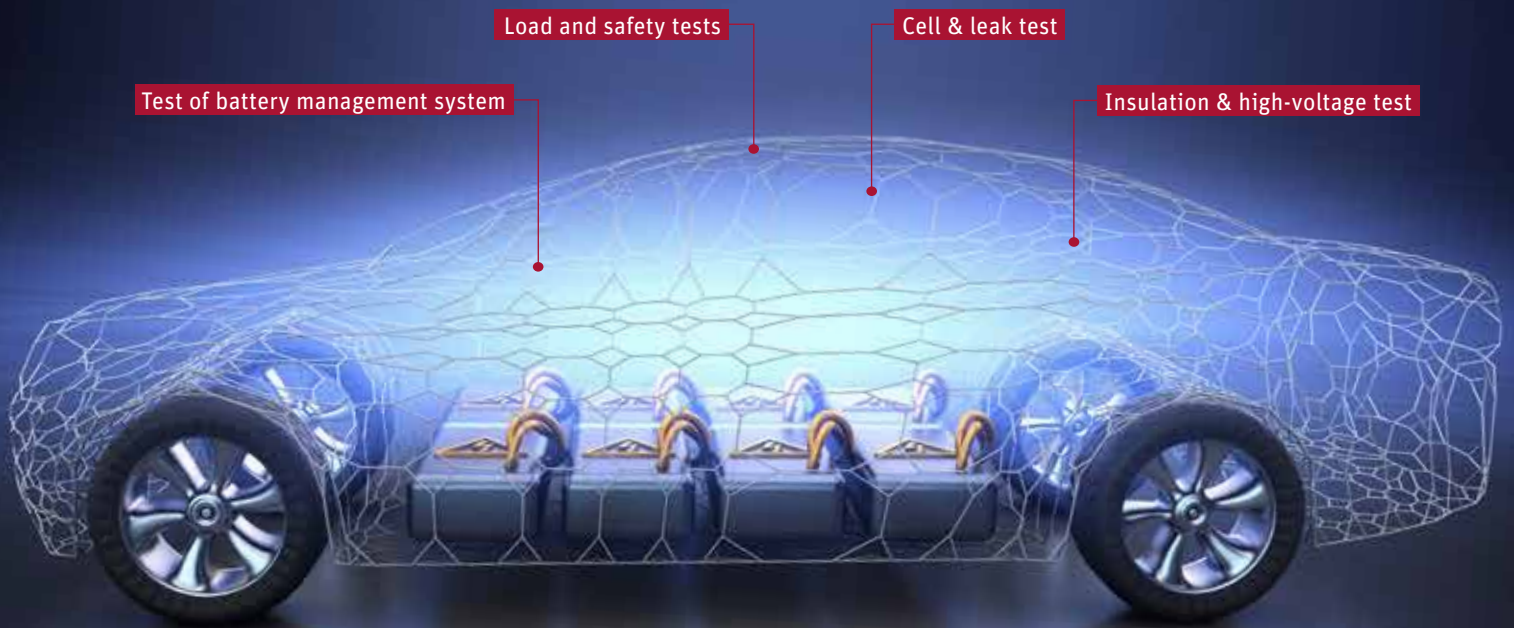


BERGHOF PROCESS MANAGEMENT

High-voltage battery test in the automobile industry



BERGHOF



Test station for high-voltage battery

Future-proof and reliable solution: HV batteries must meet ever-growing demands. They become more and more powerful, whether referring to higher capacities, higher charging voltages, or currents – however we can also test this new technology by applying the appropriate source-sink systems.

1. Easy. Flexible. Reliable.

HVSP reliably measures and evaluates measured values, so that they become reproducible at any time and can be used in case of guarantee claims between customer and OEM. Safety-relevant data is precisely recorded and can be transferred to different data base systems.

The easy and safe operation of the test system guarantees safety for the operator and avoids possible error sources in fully- or semi-automatic test runs.

3. Features

- > Easy parameterisation for adaptation of test parameters and test sequences
- > Flexibility due to modular test software
- > Integrated diagnosis options for fast troubleshooting
- > Observance of the required safety requirements; especially in dealing with high voltage
- > Long lifetime
- > Cost-efficient complete solution
- > Low operating costs

2. Description of functions

- > Communication with battery management system (control system of battery). Here, the HVSP simulates the complete vehicle (rest-bus simulation).
- > All specified insulation and high-voltage tests are properly performed using the latest technologies and are documented.
- > Conditioning of HV-batteries in wide power ranges.
- > Load test in form of charging / discharging pulses.
 - Simulation of start/stop functions as well as energy recuperation.
- > Integration of specified test sequences. A test run editor makes it possible automatically to generate individual test sequences.
- > Optional: connection of leak test devices made by different manufacturers is possible
- > Tests are also possible for individual modules and cells.
- > Testing and using of the cooling system during the tests.

4. Advantages for you

- > Automatically adaptable test run due to test run editor
- > Open test software LabView (industrial standard)
- > Detailed error analysis
- > Crosslinking of multiple test stations is possible
- > Network connection, for instance to upload test parameters
- > Reading out of status files of multiple test stations is possible via a central control station
- > Data is saved in a local data base and can be managed
- > Early recognition of failure risks on the basis of saved data
- > Connection to LabView

Berghof Automation GmbH

Langensalzaer Landstraße 23 | 99974 Mühlhausen | Germany | T +49.3601.4777-0 | F +49.3601.4777-10
processmanagement@berghof.com | www.berghof-processmanagement.com

Alterations and errors excepted, Printed in Germany