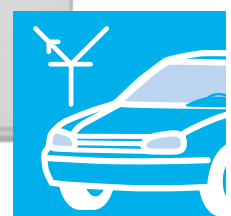


NEW!



High Voltage Battery Trainer

Safe Handling - Maintenance - Diagnostics



The High Voltage Heart of Electric Cars

Working with and on a Real High Voltage Battery

This training system gives trainees the chance to work directly on a real high voltage battery and even inside it. Since it is designed to be identical to an authentic high voltage battery from a standard electric vehicle, the training system can be used to make measurements and diagnostic investigations inside the battery down to the level of individual cells. It is also possible to change one cell to another.

Thanks to the extensive but easy-to-operate fault simulation function, trainees can become familiar with a host of possible faults and learn the best ways to diagnose them. This means they are prepared in the best possible way for the practical challenge of working in the workshop where they put the skills they have learned to use.



Your benefits

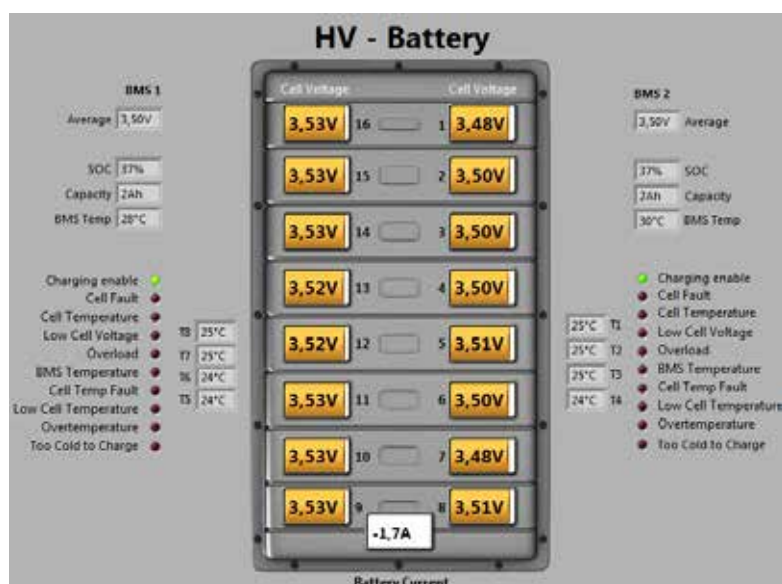
- **Real high voltage battery**
 - 16 Lithium-ion cells
 - 8 Temperature sensors
 - Removable cells/sensors
 - Air cooling
 - Interlock
- **High voltage safety components**
 - Disconnection of high voltage circuits
 - Disconnection of low voltage circuits
 - Safety fuse for emergency services
- **Measurement options**
 - CAN bus network linking battery management systems
 - High voltage system main relay
 - Real high voltage
 - Interlock
- **Charging equipment**
 - AC charging, single-phase and three-phase
 - DC charging
- **Built-in measurement interface**
 - 4-channel oscilloscope
 - Voltmeter
 - High voltage battery monitor

Theory Course and Monitoring Software

In addition to the hardware, you also get a digital theory course designed for trainees to work at their own pace. It includes all the relevant theoretical topics and guides them through practical experiments. All the content is written in a way that is easy to understand and is provided in a clear manner with the help of attractive animations and videos.

Detailed instructions for use of the training system are also provided. Various vehicle status conditions indicate different loads of the high voltage battery, such as:

- High load (driving uphill)
- Medium load (driving on the flat)
- Zero load (coasting)
- Slight recuperation (driving downhill)
- Heavy recuperation (regenerative braking)



Real-Time Monitoring of High Voltage Batteries

By means of monitoring software commonly used in practice, students have access to a valuable summary of the high voltage battery status. Charging and discharging processes are displayed along with real-time measurements of the balance of individual cells. The response of temperature sensors and how the individual battery management systems are operating are also displayed by the software.

Information provided includes the following:

- Cell voltage
- State of charge (SoC)
- Cell temperature
- Critical status conditions
- Flow of current

Fault Simulator

In conjunction with the built-in fault simulation within the course, trainees are able to master a large variety of diagnostic tasks in a way that is closely based on practice.

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