



**CARBON
ZAPP**

BRSEV
ELECTRIC

Innovolutions for Electric Vehicles

Carbon Zapp evolves in e-mobility with
Innovative Service and Consumer
Solutions for BEV / HEV Vehiclesmade

BRSeV



Expected
Production 2019



BRSEV

The BRSEV, is able to thoroughly test the complete HV circuit of a EV / HEV battery for safety and diagnostic purposes, charge and discharge single cell modules and finally check their air tightness.

1 High Voltage Potential & Diagnosis

Functions

All-Pole Voltage Test (lack of voltage)

Insulation Resistance Test (Insulation-R as a function of V and A)

SAE J1766 Insulation Resistance Test (under load with parallel resistance)

Full measurement (Voltage, HV insulation R and SAE J1766 tests done semi-automatically)

Equipotential bonding check

Resistance measurement (Ohm)

Diode test

Capacity measurement

Insulation monitor check



Safety-Ware

cloves, goggles, boots, clothes

EV Tools required

battery lift, HV-Safe handtools, etc.

Features

Editable Test Voltage: 250-1000 V @ 1 mA

Generation of high voltage only at press of a button

Automatic discharge of transient current and voltage after the high-voltage insulation resistance test

High-voltage safety circuit (automatic switch-off)

Single Phase Power supply 100-250VAc @ 50/60Hz

Interface: USB 2.0 or later (galvanic insulated)

Function indicators (LED)

Printing Results Protocol

Database (Continuously Updated)

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2 Battery Repair & Module Balancing

To guarantee an overall equal load of all cell modules on a HV-battery, the new cell module has to be charged / discharged to meet this load of the whole battery. The balanced cell module replaces the defect cell module of the battery.

3 Battery Leakage Test

Finally the battery tightness is very important to assure optimum operation of the battery out in the field. Dust and other particles can be very dangerous for the health of the battery of an EV/HEV.



Functions

Module Charging / Discharging

Safety test of the module and battery assembly

Self-test of system for accurate measurements and charging

Digital Leakage Testing -50... +50mbar

Digital Cooling System Testing for large volume battery housings

Reporting

NOTE: The BRSEV, is designed to be used in advanced workshops and dealerships which have been trained to work safely with HV battery repairs. To use this device, you must have a special qualification and training



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