



AVL DiTEST mustHV

AUTOMATED TESTING AND VALIDATION OF HIGH-VOLTAGE COMPONENTS

Maintain OEM quality beyond the factory – AVL DiTEST mustHV delivers standardized, automated testing solutions for high-voltage components in every workshop. It covers all essential tests and supports various applications – from end-of-service

validation and safety checks before reuse or disposal to monitoring stored batteries and electric drives. Delivered in a robust, portable case, it is ideal for workshops and also mobile 'flying doctor' services, ensuring maximum flexibility and readiness on-site.

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SAFETY

- › Zero-voltage verification
- › Insulation resistance measurement
- › High-voltage withstand test with up to 3,300 V
- › Leak detection without external air supply
- › Supports HV systems up to 1,000 VDC

DIAGNOSTICS

- › ECU communication including 12V/24V supply
- › Extensive rest bus and rest vehicle simulation
- › DTC read/reset, fault simulation
- › Live data display and remote control (e.g. open contactors)
- › BMS current consumption test

MODULAR & EXPANDABLE

- › Tailored Adapter Kits to connect the mustHV to the target system
- › Charge/discharge of HV batteries
- › Advanced leak detection with forming gas
- › Cell Monitoring Kit
- › Current Sensor



TECHNICAL SPECIFICATIONS

Specification	Value
HV generator	20–3300 VDC 0.1 + 4.5 mA
Over current detector	High speed detection 30 µs
Voltage Measurement	± 4000 V
Resistor matrix	10-2000 kOhm
ECU Supply	12-24 V / 120 W
Rest Bus/Vehicle simulation	Communication, rest bus simulation, cooling system simulation, simulaton of ICC, interlock loop, and more...
Pressure test	Low pressure range ± 150 mbar High pressure range up to 3.5 bar
Dimensions of mustHV (l x w x h)	550 x 245 x 420 mm
Weight of mustHV	<17 kg
Tablet/PC interface	USB-C PD/WiFi
Extension port	2x USB 2.0 incl. 12 VDC supply voltage
Extension shaft	For accomodation of customer-specific extension units

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