



AVL HYBRID TESTING SOLUTIONS

AVL BATTERY TESTBED

BATTERY TESTING SYSTEMS

Main Item Description

AVL Battery Testbeds have been developed for the test and characterization of all kinds of energy storage systems as well as for quality assurance within the production process.

The driving functions of hybrid vehicles such as boost, recuperation or electrical driving make new demands on energy storage systems. These systems must have a long lasting high power and energy density for high-dynamic charge and discharge processes. Performance tests, calendar life and cycle life tests can be executed by AVL Battery Testbed.

Application

- Test and characterization of different energy systems (supercaps, Lithium-Ion, NiMH, Lead Acid)
- Test of cells, modules and complete packs
- Quality assurance within the production process

Benefits

- High dynamic current rise time, high data consistency and excellent degree of automation
- Easy modular programming
- Supervisory safety system
- Integrated Electrochemical Impedance Spectroscopy (EIS)

Component Description

The battery test beds consist one of up to six integrated measurement and control units as well as of max. six power amplifiers. The parameterization, visualization and data evaluation is executed by the Workstation-PC. In addition to this features the data logger and climate chamber can be integrated (Option).

Product Variants

	Max. Output Voltage/ Max. Output Current	Max. Apparent Power	Max. Output Channels
AVL Battery Testbed/C20-500™	20V/±500A	6x 2kW	6
AVL Battery Testbed/C60-300™	60V/±300A	6x 6kW	6
AVL Battery Testbed/P600-300™	600V/±300A	1x 90kW	1
AVL Battery Testbed/P600-600™	600V/±600A	2x 90kW	2

Customer specific adaptations of the above mentioned product variants are offered on request!