

RJ8120 Battery Pack Automatic Testing System (PACK EOL)



Product Description

RJ8120 series Battery PACK Automatic test system (PACK EOL) is an automatic test equipment designed and developed for battery PACK function and performance test. The system adopts open hardware and software architecture, which is composed of main control cabinet, industrial computer, electrical safety performance tester, programmable DC test power supply, collision signal simulator, power analyzer, high-precision battery internal resistance tester, equipotential tester, etc. And provide custom-designed BMS communication simulation unit, charging simulation unit, system control switching unit and other special measurement, test instruments and control software, for the battery PACK manufacturing enterprises and new energy vehicle enterprises R & D testing, production testing, quality testing and other basic needs and other individual needs, to provide test solutions.

Function realization

- **BMS Simulation and Verification Module:** Configure auxiliary power supply, simulate the BMS working environment and verify the main functions and performance indicators of BMS
- **High Voltage Battery Internal Resistance Tester:** Measure the voltage and internal resistance parameter of battery PACK;

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- **Equipotential Tester:** DC grounding resistance test for the battery PACK for both the remote and local grounding units;
- **Safety Comprehensive Tester:** Provides AC and DC voltage withstand, insulation and other electrical safety performance specification tests;
- **Industrial Control Computers:** System software operating platform.

Power unit configuration

Serial number	Testing functions
1	Software, hardware version detection, fault query, clearance function
2	AC and DC voltage withstand, insulation test function
3	Equipotential test function
4	Parasitic capacitance detection function
5	Total voltage, single unit voltage, SOC detection function
6	Charge and discharge detection function
7	Crash signal simulation and state detection function
8	Temperature sensor detection function
9	Interlock status detection
10	Static and dynamic power consumption detection function
11	PTC heating function and parameter detection
12	Insulation abnormality simulation and status detection function
13	Discharge ignition signal detection function
14	Pre-charging function detection
15	Local data storage and remote server MES automatic storage function
16	Printing of nameplate, data and test report, etc.