

RJ8500 Lithium battery Core (diaphragm) Breakdown Analysis System



Product Description

RJ8500 Lithium battery cell (diaphragm) breakdown analysis system is a lithium battery cell, diaphragm insulation products under heating and pressurization conditions for breakdown analysis of a (micro) short circuit test system. The system adopts open hardware and software architecture, and provides RJ69 series pulse lithium battery cell short circuit tester intelligently developed by Ruijie, which can be programmed to heat and pressurize, and can automatically store test data.

Key Features

- 50V to 2000V continuous voltage output, 1V step, status determination based on breakdown analysis characteristics;
- With the breakdown analysis function, it is able to detect the ultimate intrinsic breakdown voltage value of the diaphragm;
- With auto-detection function, it automatically starts a test when it detects that the battery cell is connected;
- With the function of discharging the electrostatic charge of the core after the completion of the test, to improve the safety of personnel and equipment; Pressure, temperature and pressing time are set

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No.38 Longfei Road, Chengyang District, Qingdao

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according to actual requirements;

- The industrial computer can store the test result data and export it later;
- It can be tested continuously and supports manual line testing

Specification

RJ69XX Instrument Part	
Voltage Output	Range:50V~2000V Resolution :1V Accuracy: $\pm(1\%st.+2dgt.)$
Capacity of Cell	120000nF
Capacitance Test	Range:1nF-12000nF
Pulse Waveform Test Time	Range:20ms~1000ms Resolution :1ms Accuracy: $\pm(0.5\%st.+2dgt.)$
Insulation Resistance Test	50V-300V 2.0M Ω -99.9M Ω $\pm(2\%rdg.+2dgt.)$
	100M Ω -750M Ω $\pm(2\%rdg.+2dgt.)$
	301V-700V 2M Ω -2000M Ω $\pm(3\%rdg.+2dgt.)$
	701V-1150V 5M Ω -3000M Ω $\pm(4\%rdg.+2dgt.)$
	1151V-2000V 10M Ω -4000M Ω $\pm(5\%rdg.+2dgt.)$
	4001M Ω -9999M Ω $\pm(15\%rdg.)$
Insulation Resistance Test time	0.1s~999.9s Accuracy: $\pm(0.1\%st.+0.1dgt.)$
Discharge resistance	10k Ω
Liquid crystal display	5.6 inch
Judgment parameters	Charging Time Tp, Output Voltage Vp, Drop Voltage Vd, Insulation Resistance R
Special Function	Holding time TK, Free discharge time TF independent setting
Test Mode	Voltage maintenance, free discharge
Extended Functions	Automatic detection, breakdown analysis
External Interfaces	Standard: PLC (switching), RS232 (optional:RS485) ,USB storage; optional: LAN interface
Operating Environment	0°C~40°C,20%RH~75%RH
Power Supply	AC220V,50/60Hz
Net weight	10.7kg
External Dimension	340mm×133mm×380mm(W×H×D)without foot, foot height 15mm
Hot pressing operation table	
Temperature range	<120°C, resolution 1°C
Pressure adjustment range	500kgf~5000kgf, resolution 100kgf
Stroke of upper platen	145mm
Size of upper platen	210mm×210mm(can be customized according to diaphragm size)
Lower heating table size	210mm×300mm(can be customized according to diaphragm size)

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