

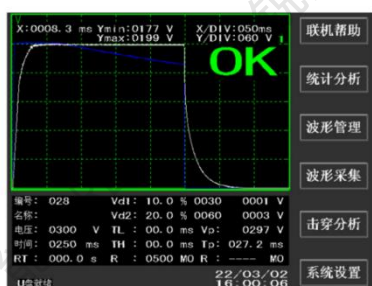
RJ69XX Li-ion Battery Core Short Circuit Tester



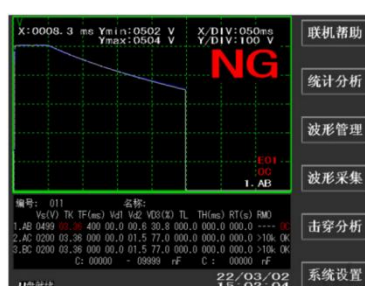
Product Description

PULSE Li-ion Battery Core Short Circuit Tester is a full-process short circuit tester in the form of a pulse waveform for testing Li-ion battery cells. It can realize the whole process of monitoring the voltage test waveform, capture the transient abnormal discharge process, and identify microsecond occurrences of short-circuit and micro-short-circuit cell defects that are difficult to recognize under normal conditions.

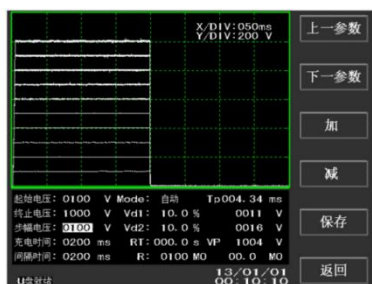
RJ69XX is widely used for (micro) short circuit testing in winding, stacking, cell assembly and before liquid injection, which greatly improves the testing efficiency of the production line; it can be applied to the testing of different types of battery cells for Li-ion batteries, nickel-hydrogen batteries, supercapacitors, sodium-ion batteries and other products.



Test Passing Screen



Test Alarm Screen



Breakdown Analysis Screen



Data Statistics Screen

National Service hotline: 4008-515-616

No.38 Longfei Road, Chengyang District, Qingdao

Official website: www.ruijie-ate.com

Key Features

- Pulse waveform full-process detection identifies localized transient (micro) short-circuit discharges;
- Output voltage 50V~2000V configurable;
- Wide range compatibility test;
- Multi-channel testing function, which can realize the testing of positive and negative poles, positive shells and between negative shells;
- The testing process can be controlled independently in segments, and the voltage drop in each process of boosting, holding and free discharging can be detected and determined independently;
- Fast automatic charging and discharging process, millisecond level test, high detection efficiency;
- Breakdown analysis BDVD, can realize the intrinsic breakdown characteristic detection of the tested products;
- Data storage: Local storage of failed DUT waveforms and test data, and USB flash drive storage;
- Compatible with insulation resistance, weak conduction resistance, and capacitance value test function.

Specification

Model	RJ69XX		
Voltage Output	Range:50V~2000V	Resolution :1V	Accuracy: ±(1%st.+2dgt.)
Capacity of Cell	120000nF		
Capacitance Test	Range:1nF~12000nF	Resolution:1nF	Accuracy :±(0.5%+2dgt.)
Pulse Waveform Test Time	Range:20ms~1000ms	Step:1ms	Accuracy: ±(0.5%st.+2dgt.)
Insulation Resistance Test	50V~300V	2.0MΩ~750MΩ	±(2%rdg.+2dgt.)
	301V~700V	2MΩ~2000MΩ	±(3%rdg.+2dgt.)
	701V~1150V	5MΩ~3000MΩ	±(4%rdg.+2dgt.)
	1151V~2000V	10MΩ~4000MΩ	±(5%rdg.+2dgt.)
		4001MΩ~9999MΩ	±(15%rdg.)
Weak resistance test range/accuracy	0 Ω~20000 Ω	±(1% f.s + 2dgt.)	
Insulation Resistance Test time	0.1s~999.9s Accuracy: ±(0.1%st.+0.1dgt.)		
Discharge resistance	10kΩ		
Liquid crystal display	5.6 inch		
Measuring channels	1CH/3CH		
Judgment parameters	Charging Time Tp, Output Voltage Vp, Drop Voltage Vd, Insulation Resistance R, Capacitance Test C		

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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
Attachment	1 instruction manual, 1 power cord (1.5 m), 1 communication cable (1.5 m), 1 test cable (1.5m)

Selection Guide

model	X	X
RJ690	2 (single channel)	R (insulation resistance test) C (Physical contact determination)
	3 (three channels)	CA (capacitance measurement) L (Weak on-resistance test)