

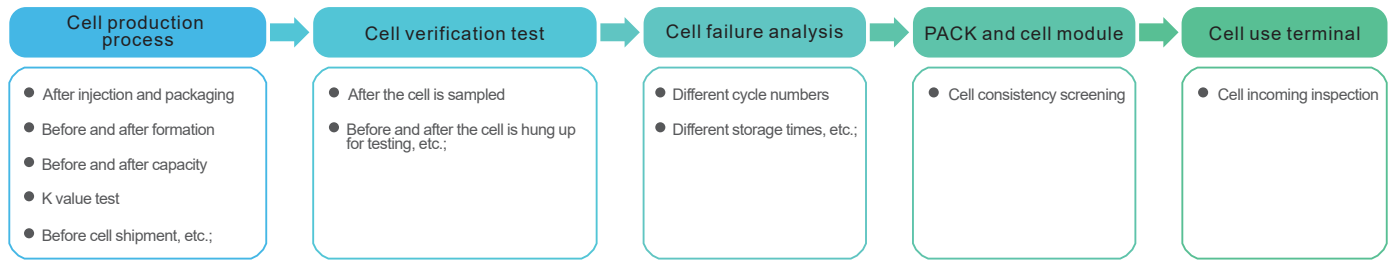
# AUTOMATIC VOLTAGE RESISTANCE TESTER

## RO1100



## VOLTAGE AND INTERNAL RESISTANCE TEST SCENE

The voltage and internal resistance of lithium-ion batteries are two main battery parameters. Accurately and quickly characterizing these two parameters is the key to monitor the stability and status of battery production and improve the efficiency of production and testing. Scenarios in which the voltage and internal resistance of the cell are tested include:



## THE LIMITATIONS OF TRADITIONAL TEST METHODS

At present, most cell enterprises use simple resistance instrument combined with manual test clip to test a single cell. The existing problems, which is below:

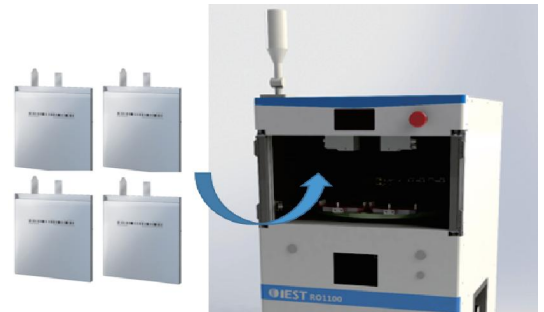
1. Manual measurement of cell by cell, time-consuming and laborious;
2. The contact force of the test clip cannot be fixed, and the contact resistance fluctuates greatly, resulting in the measured resistance fluctuation;
3. Each clamp test, easy to damage the tab;
4. Only one cell can be tested at a time, and the test efficiency is low;
5. Need to manually record the cell barcode and voltage, resistance data, and uploaded to the monitoring system, prone to error;
6. It is necessary to manually determine whether the voltage and internal resistance are in the specification range, and high demands on people;



## CREATIVE SOLUTIONS

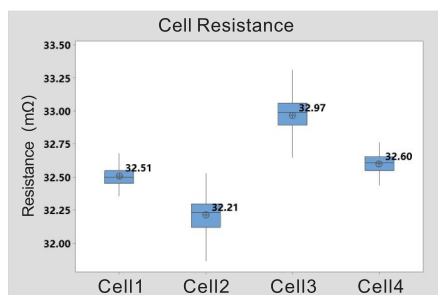
RO1100 automatic battery voltage resistance tester is a device with high integration, high openness, perfect system function, minimize human intervention, rapid realization of battery voltage resistance measurement. The advantages as following:

1. The equipment has four channels, can be a single continuous test of 2 cells;
2. The contact force of the test clip is fixed, the contact resistance is fixed, and the measured resistance fluctuation is small;
3. Can test two cells at a time, high test efficiency, can test more than 15EA in a minute;
4. Plane contact, with little damage to the polar ear;
5. Automatic scan code cell, automatically test the voltage internal resistance data and save;
6. Automation software can set the voltage specification range, beyond the specification of automatic alarm;

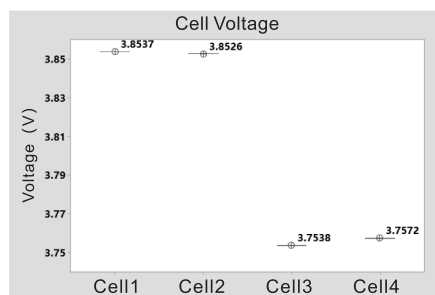


## TEST RESULT

	Cell1#	Cell2#	Cell3#	Cell4#
Max	32.68	32.57	33.31	32.76
Min	32.36	31.6	32.41	32.44
Max-Min	0.32	0.97	0.9	0.32
Mean	32.51	32.21	32.97	32.60
COV	0.21%	0.46%	0.44%	0.22%



	Cell1#	Cell2#	Cell3#	Cell4#
Max	3.8537	3.8526	3.7538	3.7576
Min	3.8536	3.8526	3.7536	3.7572
Max-Min	0.0001	0.0000	0.0002	0.0004
Mean	3.8537	3.8526	3.7537	3.7575
COV	0.001%	0.000%	0.002%	0.002%



Resistance range	0.1μΩ~3.1kΩ
Resistance accuracy	±0.5%F.S
Voltage range	0V~60V
Voltage accuracy	±0.03%F.S
Test efficiency	≥15 pcs/min

Voltage	220V
Voltage variation tolerance	±10%
Power dissipation	70W
Environmental temperature	25±5°C
Environmental humidity	≤80%RH
Environmental magnetic field	Keep away from intense electromagnetic
Net weight	100kg
Dimension(W*D*H)	510*600*800(mm)



IEST public account

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