

Pouch Prismatic Battery Ocv Dcir Testing Machine With Barcode Scanning And Inkjet Coding

Item Number: RB01



Introduction

Automated pouch prismatic battery OCV and DCIR testing machine with barcode scanning, voltage resistance measurement, data traceability, and OK NG sorting for high throughput cell production across pouch cell manufacturing lines with reliable server integration

[Learn More](#)

Application	Description	Key Benefit
Pouch Battery Production Lines	Performs automated barcode reading, OCV testing, DCIR testing, result evaluation, and coding for pouch battery cells moving through a production process.	Consolidates several inspection functions into one coordinated unit and reduces manual handling.
Incoming Cell Inspection	Screens incoming pouch cells for voltage and internal resistance before they enter subsequent manufacturing or assembly operations.	Helps identify electrically abnormal material at an early stage and prevents unsuitable cells from progressing.
End-of-Line Electrical Quality Control	Uses high-precision voltage and resistance measurements to classify completed pouch cells as OK or NG according to configured production criteria.	Creates a consistent, measurable quality checkpoint for finished cell output.
Battery Cell Traceability Management	Associates each cell barcode with its electrical test parameters and test time, then transfers the information to a server for storage.	Provides searchable product-level records for production review, quality analysis, and process accountability.
Multi-Format Pouch Cell Manufacturing	Handles cells within the specified width, height, thickness, and tray-size ranges, allowing one system to support defined product variations.	Improves equipment utilization when production includes multiple pouch cell formats.
Automated Coding and Identification	Applies inkjet coding after testing while maintaining the relationship between cell identity and inspection data.	Supports clearer material identification and more organized downstream handling.

Parameter	Specification
Product	Pouch prismatic battery OCV and DCIR testing machine
Product Item Number	RB01
Primary functions	Barcode scanning, OCV testing, DCIR testing, inkjet coding, server data transmission, automatic OK/NG judgment
Reference cell dimensions	Thickness 10 mm; width 74 mm; length 172 mm
Pouch cell width range	35-135 mm
Pouch cell height range	60-200 mm, including tabs
Pouch cell thickness range	3.5-13.5 mm

Parameter	Specification
Tray length L	320-400 mm
Tray width W	260-350 mm
Tray pocket width B	≥18 mm
Tray geometry	Uniform horizontal and vertical spacing between pockets

Parameter	Technical Indicator	Notes
Efficiency	8-10 PPM	Actual efficiency depends on DCIR testing time
First-pass yield	≥99%	Excludes incoming material defects
Equipment power	5 kW	Equipment operating power
Noise	≤60 dB	Measured one meter from the equipment during stable production

Measurement Item	Specification
Test instrument configuration	RB01 OCV and resistance measurement configuration
Voltage range	0-5 V
Internal resistance measurement range	0-50 mΩ
OCV accuracy	+0.01%
Displayed voltage resolution	0.01 mV
Displayed resistance resolution	0.01 mΩ
AC impedance frequency range	0-1000 Hz

Parameter	Specification
DCIR tester rating	5 V 300 A
IR accuracy	+0.5%

Process Stage	Equipment Function
Cell identification	Automatic barcode scanner reads the pouch cell barcode
Data binding	Cell barcode is associated with its electrical test record
Electrical testing	High-precision instruments measure cell voltage and internal resistance
Data transmission	Test parameters and test time are transmitted to the server
Data storage	Server automatically records and stores the test information
Result feedback	Server returns the evaluation result to the equipment
Quality judgment	Equipment determines and separates OK/NG results according to the returned result
Product marking	Inkjet coding is performed as part of the integrated process