

Pouch Cell Aluminum Laminated Film Short Circuit Tester

Battery Testing Equipment

Item Number: CD14



Introduction

Boost battery production yields with our precision pouch cell short circuit tester engineered for rapid three point insulation verification between tabs and aluminum laminated film prior to electrolyte injection.

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Application	Description	Key Benefit
Pouch Cell Pilot Line Assembly	In-line automated quality screening of newly sealed pouch cells immediately prior to electrolyte filling.	Eliminates unnecessary electrolyte consumption by weeding out shorted cells early in the assembly flow.
Commercial EV Battery Manufacturing	High-throughput verification of large batches of automotive-grade pouch cells running at speeds over 900 units per hour.	Ensures ultra-low defect rates and mitigates downstream thermal runaway risks caused by micro-burrs and tab contact.
Consumer Electronics Cell Production	Precision insulation testing for ultra-thin, high-density smartphone, tablet, and wearable pouch cell configurations.	Accommodates delicate, thin-profile cell casings down to precise fractional millimeter tolerances without edge crushing.
Solid-State & Advanced Battery R&D	Rigorous interface insulation monitoring between novel solid electrolytes, metallic anodes, and composite pouch films.	Delivers reliable isolation data under low-pressure contact, supporting prototyping of next-generation chemistries.
Incoming Raw Cell Quality Assurance	Batch acceptance screening of pre-sealed cell envelopes and electrode assemblies prior to modular packing operations.	Provides standardized, repeatable three-point resistance verification to enforce supplier compliance.
Post-Edge-Sealing Failure Analysis	Targeted laboratory evaluation of edge-seal integrity and tab clearance following thermo-compression sealing processes.	Quickly pinpoints seal thinning, foil deformation, and internal separator displacement with adjustable probing.

Parameter	Specification (Model: CD14)
Product Item Number	CD14
Primary Function	Pre-electrolyte injection short-circuit testing (Tab-to-Film & Tab-to-Tab)
Detection Scope	3-Point Detection: Positive Tab, Negative Tab, Aluminum-Plastic Laminated Film
Input Power Supply	Single-phase AC 220 V, 50 Hz (Internal conversion to 24 V DC)
Operating Air Pressure	0.4 - 0.8 MPa
Throughput / Capacity	≥ 900 pieces / hour
Compatible Cell Size Range	Up to L 150 mm × W 80 mm × H 12 mm
Maximum Cell Substrate Dimension	150 mm × 150 mm
Contact Probe Mechanism	Multi-axis adjustable position high-durability contact probes
External Dimensions (W × D × H)	530 mm × 400 mm × 350 mm
Total Equipment Weight	30 kg
Actuation System	Precision pneumatic clamping with mechanical guidance