

Prismatic Battery Fixture For Same Side Terminals High Current Cell Testing

Item Number: JA09



Introduction

Engineered for high-precision prismatic cell testing, this robust battery fixture accommodates same-side terminals with up to 300A current capacity. Featuring an 8-channel single-sided rack layout, adjustable pole spacing, and durable M16 connections, it ensures dependable laboratory cycling performance.

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Application	Description	Key Benefit
EV Battery Cell Validation	High-rate cycling and thermal characterization of commercial and prototype prismatic traction battery cells under simulated driving profiles.	Handles high continuous current loads up to 300A with minimal contact heating, ensuring realistic dynamic stress testing.
Energy Storage System (ESS) Cell Grading	Precision capacity determination, internal resistance (DCIR) measurement, and consistency screening for large-capacity stationary storage cells.	High channel-to-channel contact repeatability ensures accurate classification and tight capacity grouping for pack assembly.
Formation and Aging Systems	Multi-channel pre-charge, formation, and high-temperature aging protocols during advanced pilot-line manufacturing and formulation testing.	Two-tier compact footprint maximizes testing density per square meter while offering effortless cell insertion and extraction.
Solid-State & Next-Gen Chemistry R&D	Precision electrochemical testing of advanced prismatic prototypes with novel same-side terminal topologies and variable casing dimensions.	Broad physical adjustability accommodates custom casing dimensions without requiring expensive tooling redesigns.
Quality Assurance & Inbound Cell Auditing	Batch-level verification of incoming commercial battery shipments to validate vendor C-rate, overcharge resistance, and impedance specifications.	Standardized M16 lugs and reliable M103-12-Y-300A probe interfaces provide plug-and-play compatibility with major industrial cyclers.
Lifecycle & Accelerated Degradation Testing	Long-term continuous charge-discharge cycling over thousands of operational cycles to model long-term capacity retention and degradation mechanisms.	Rugged contact materials and rigid frame construction prevent probe degradation, mechanical fatigue, and drift over multi-year test spans.

Specification Parameter	Technical Detail / Value (JA09)
Product Identifier	JA09
Maximum Continuous Test Current	300A
Contact Probe Model Code	M103-12-Y-300A
Terminal Configuration	Same-Side Poles ()
Electrode Pole / Tab Spacing Range	70 mm - 146 mm
Cable Connection Interface	M16 Lug Terminal
Compatible Cell Length	80 mm - 250 mm
Compatible Cell Width (Thickness)	15 mm - 87 mm
Compatible Cell Height	30 mm - 245 mm
Total Channel Capacity	8 Channels

Specification Parameter	Technical Detail / Value (JA09)
Rack Layer Configuration	2 Tiers (Layers)
Channels Per Layer	4 Channels / Tier
Fixture Access Layout	Single-Sided Operation
Individual Test Unit Dimensions (L × W × H)	250 mm × 278.5 mm × 555 mm
Complete Rack External Dimensions (L × W × H)	1299 mm × 407 mm × 1470 mm
Mounting & Structural Framework	Heavy-duty industrial chassis with isolated probe mounts