



KINTEK SOLUTION

Battery Test Catalog

Contact us for more catalogs of [Sample Preparation](#), [Thermal Equipment](#), [Lab Consumables & Materials](#), [Bio-Chem Equipment](#), etc.

KINTEK SOLUTION

COMPANY PROFILE

>>> About Us

Company Profile

Kintek Solution Ltd is one technology orientated organization, team members are devoted to probing the most efficient and reliable technology and innovations in the scientific researching equipment, fields like biochemical reacting, new materials researching, heat treatment, vacuum creating, refrigerating, as well as pharmaceutical and petroleum extracting equipment.

Products & Services

Kintek Solution Ltd is headquartered in Zhengzhou, the capital city of Henan Province, China, and its core business includes the manufacture, distribution and sale of all types of scientific research equipment and laboratory consumables. The wide range of products and services covers the following main areas:

- **Sample Preparation Equipment:** We provide high-performance sample preparation equipment such as tablet presses, ball mills, vibrating sieves and tablet punching machines, which are capable of meeting a wide range of sample preparation needs and ensuring high quality experimental data and research results.
- **Thermal Equipment:** Our thermal equipment includes tube furnaces, sintering furnaces, vacuum furnaces, atmosphere furnaces, graphite furnaces, dental furnaces, rotary furnaces, and high-temperature furnaces (e.g., MPCVD, CVD, PECVD, electric rotary kilns). These facilities excel in high-temperature processing and materials synthesis, meeting a wide range of needs from basic research to industrial production.
- **Biochemical equipment:** We offer a wide range of biochemical laboratory equipment, including rotary evaporators, vacuum pumps, cold trap chillers,

heating circulators, reactors, short-range distillation equipment, sterilization equipment, and homogenizers. These equipments are widely used in the fields of chemical reaction, biological processing and pharmaceutical manufacturing.

- **Laboratory Consumables:** We supply a wide range of laboratory consumables such as fine ceramic products, electrochemical consumables, PTFE material products, high purity materials, battery materials, chemical vapor deposition materials, optical materials, thin film deposition components and glass materials. These consumables provide the necessary support for laboratories to ensure the smooth running of experimental processes.

Technological Advantages

Kintek Solution Ltd has significant technological strengths in the field of scientific research equipment and technical solutions, which enable us to stand out in a competitive marketplace and support our customers with cutting-edge technology. The following are our key technological strengths:

Advanced R&D capabilities

- **Technological Innovation:** Our R&D team is committed to exploring and developing the latest technologies to keep our equipment at the forefront of the industry through continuous technological innovation.
- **Customized solutions:** Based on the specific needs of our customers, we are able to develop and provide customized equipment to meet specific research requirements and application scenarios.
- **Cooperative R&D:** We cooperate with leading research institutes and higher education institutions around the world to carry out R&D projects on cutting-edge technologies to ensure that our technologies are always at the forefront of the industry.

High-performance equipment

- **Precision design:** Our equipment adopts advanced design concepts to ensure high precision, reliability and performance to meet the stringent requirements of scientific research and industrial applications.
- **Advanced materials:** We use high-quality materials and components to improve the durability and stability of our equipment, extend its service life and reduce maintenance costs.

Strict quality control

- Standardized production: All equipment is manufactured in accordance with international quality standards, and each production step is strictly controlled to ensure product consistency and reliability.
- Comprehensive testing: Comprehensive performance testing and quality inspection are carried out before the equipment is delivered to ensure that it meets the customer's technical specifications and operational requirements.

Comprehensive technical support

- Technical Service: Provide comprehensive technical support and after-sales service, including equipment installation, commissioning, training and maintenance, to ensure that customers can use our products efficiently.
- Rapid Response: We have established a rapid response mechanism, which can promptly solve the problems encountered by customers in the process of use and reduce equipment downtime.

Innovative technology integration

- System Integration: We integrate advanced control systems and automation technologies into our equipment to improve operational efficiency and data accuracy, and streamline operational processes.

Through these technological advantages, Kintek Solution Ltd is able to continue to provide our customers with innovative, efficient and reliable scientific research equipment and solutions to promote the continuous progress of scientific research and industrial applications.

Market position and customers

Kintek Solution Ltd is positioned in the market as a leading global provider of high-tech research equipment and solutions, specializing in biochemical reactions, new materials research, heat treatment, vacuum manufacturing, refrigeration, as well as pharmaceuticals and oil extraction. We are committed to brand leadership in research equipment by providing innovative technology and high quality equipment to meet the needs of research organizations and industrial companies in complex research and production processes.

Core Market Positioning:

- **Specialization:** We focus on high technology and scientific research, providing advanced equipment and solutions for specialized research institutes, laboratories and industrial applications.
- **High-end customers:** Our main customers include world-renowned universities, research institutes and various industrial enterprises, which usually have high requirements for equipment performance and technology.
- **Technological Innovation:** We are committed to technological innovation and customized solutions to ensure that our customers receive cutting-edge technical support to meet the ever-changing needs and challenges in the market.

Market Customer Groups:

- **Research Institutes and Universities:** including the world's leading research institutes and institutions of higher learning, who require high-performance research equipment and technical support for basic research, applied research and technology development.
- **Industrial companies:** covering a wide range of industries such as pharmaceuticals, oil extraction, new materials manufacturing and electronic materials production, these companies rely on reliable equipment and solutions to ensure product quality and productivity during production.
- **Laboratories and test centers:** organizations that provide laboratory services and quality testing, requiring accurate laboratory equipment and instruments for sample analysis and testing.
- **Technology Development Companies:** Companies that specialize in the development and application of new technologies and have a high demand for innovative equipment and technical solutions to support their R&D projects and technology validation.

Through clear market positioning and customer groups, we are committed to promoting scientific and technological progress, supporting the innovation and development of our global customers, and continuing to provide high-quality products and services to the market.

Team Introduction

The team at Kintek Solution Ltd is at the heart of the company's success. In order to realize our vision and maintain our leadership position in the field of high-tech research equipment, we are committed to building an exceptional team with the following attributes:

1. Professionalism

- **Technical Expertise:** Our team consists of technical experts and engineers in the field with deep expertise and technical backgrounds to meet complex technical challenges and innovation needs.
- **Industry experience:** We bring together professionals with extensive experience in the fields of research equipment, material science and engineering technology to ensure a precise grasp of market needs and technological trends.

2. Innovative Spirit

- **R&D-driven:** The team encourages innovative thinking and technological exploration, supports employees to participate in R&D projects on cutting-edge technologies, and continuously pushes forward the technological advancement of products and solutions.
- **Flexible Adaptation:** In the face of changing market environment, we have the ability to adapt quickly and flexibly to meet the changing needs of our customers.

3. Collaboration and Communication

- **Cross-sectoral collaboration:** The team maintains close collaboration between various departments, including R&D, production, sales and customer service, to ensure the smooth progress of projects and timely response to customer needs.
- **Efficient Communication:** Emphasize internal communication and information sharing, through efficient communication mechanisms and tools to ensure that all team members are consistent with the project goals and progress.

4. Customer Orientation

- **Customer Service:** Team members are customer-focused and committed to providing quality service and support to ensure that our customers have the best experience in using our products and solutions.

- Customized solutions: the ability to deeply understand the specific needs of customers and provide customized solutions to meet the special requirements of different customers.

5. Professional Training and Development

- Continuous Learning: We provide continuous training and learning opportunities for our team members to ensure that they are always up-to-date with the latest technology and industry knowledge.
- Career Development: We value the career development and growth of our employees, provide clear career paths and promotion opportunities, and motivate our employees to realize their personal goals and career aspirations within the company.

6. Corporate Culture

- Integrity and Responsibility: The team upholds integrity and responsibility, treats work and customers with honesty and fairness, and builds trust and long-term cooperative relationships.
- Unity and Collaboration: Focusing on the spirit of teamwork, the team emphasizes mutual support and joint efforts to achieve the company's goals and promote the overall success of the team.

By building such a highly qualified, innovation-driven and customer-oriented team, we ensure that Kintek Solution Ltd continues to lead in the field of scientific research equipment and provide excellent products and services to our customers worldwide.

At KINTEK, technology fuels our corporate spirit. This dynamic energy awaits you upon joining our team. Expect a distinctive cultural environment where our global business focus opens doors to diverse customs and traditions worldwide. Here, challenging roles promise to propel your career to new heights.

Our exceptional corporate culture sparks innovation, fosters care, and drives continuous progress among individuals and teams. Our team embodies youthfulness, positivity, enthusiasm, and a bold attitude toward challenges. Passionate about our business, our employees ardently contribute to the company's growth.

We seek individuals brave enough to embrace challenges, harbor grand ambitions, and thirst for knowledge. If you're driven by dreams and passion, and aspire to start your

entrepreneurial journey, KINTEK is the platform to actualize your career plans. We don't just offer opportunities; we pave the way for your future.

Join us at KINTEK, where innovation meets opportunity. Let's create a future that's as promising as your aspirations.

Future Plans

Kintek Solution Ltd's future plans are aimed at further strengthening our leadership position in the research equipment sector and driving the company forward in terms of technological innovation, market expansion and customer service. The following are our key future directions:

1. Technology Innovation and R&D

- Cutting-edge technology development: Continue to invest resources in the research and development of cutting-edge technologies, such as artificial intelligence, the Internet of Things and nanotechnology, in order to promote equipment intelligence and automation.
- New Product Lines: Expand existing product lines and develop equipment to meet emerging market needs, especially in the areas of biochemistry, biomedicine and high-performance materials.
- Cooperative R&D: Strengthen cooperation with international research institutes and institutions of higher learning to carry out joint R&D projects to ensure that the technology remains at the global leading level.

2. Market Expansion

- Global Market Expansion: Further expand the global market, especially in emerging markets and developing regions, establish more sales and service networks, and enhance the brand's international influence.
- Industry application: Explore and expand the application fields in other industries, such as new energy, environmental protection technology and intelligent manufacturing, to open up new business growth points.

3. Customer Service Enhancement

- Enhancement of customer support: Establish a more complete customer support system, provide 24/7 technical support and maintenance services, and ensure

the efficient experience of customers in the use of equipment.

- Customized services: Provide more customized services and solutions according to customers' individual needs to enhance customer satisfaction and loyalty.

4. Sustainable Development

- Environmentally friendly technology: Develop and adopt environmentally friendly materials and processes to reduce the environmental impact during the production and use of equipment and promote sustainable development.
- Energy saving and consumption reduction: Optimize the energy efficiency of equipment, reduce energy consumption, improve resource utilization efficiency, and support the development of green technology.

5. Internal optimization

- Intelligent management: Implement intelligent management systems and data analysis tools to improve productivity and management and reduce operating costs.
- Employee Training: Enhance employee training and skills upgrading to build a high-quality team to meet changing market demands and technological challenges.

6. Innovation ecosystem

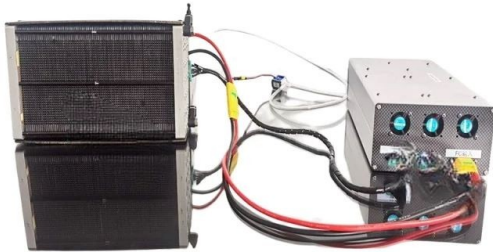
- Establishment of innovation platform: Create innovation platforms and laboratories to support employees and partners in technological innovation and product development.
- Industry Chain Cooperation: Deepen cooperation with the upstream and downstream of the industry chain, integrate resources, and promote the development and implementation of industry technical standards and market norms.

Through these future plans, Kintek Solution Ltd will continue to lead the forefront of science and technology, provide customers with more advanced and reliable products and services, and at the same time, promote the sustainable development of the enterprise and the progress of the industry.



Hydrogen Fuel Cell Stack

Item Number: BC-05



Introduction

A fuel cell stack is a modular, highly efficient way to generate electricity using hydrogen and oxygen through an electrochemical process. It can be used in various stationary and mobile applications as a clean and renewable energy source.

[Learn More](#)

Model	10W	20W	30W	50W	100W	200W	300W	500W
Rated output	10W	20W	30W	50W	100W	200W	300W	500W
Rated voltage (V)	6.6	1.2	7.2	12	12	24	38	24
Rated current (A)	1.51	1.67	4.17	4.2	8.34	8.34	7.9	20.84
Fan voltage (V)	4-12V							
Stack temperature								
Stack efficiency	50%							
Slices	11 pieces	20 pieces	12 pieces	20 pieces	20 pieces	40 pieces	64 pieces	60 pieces
Volume (mm)	57*42*52	110*46*48	84*64*76	92*83*56	160*143*75	104*170*70	245*100*100	140*180*167
Weight (kg)	0.155	0.29	0.2	0.3	0.8	1.01	1.5	1.95

Battery Comprehensive Tester

Item Number: BC-06



Introduction

The scope of application of the battery comprehensive tester can be tested: 18650 and other cylindrical, square lithium batteries, polymer batteries, nickel-cadmium batteries, nickel-metal hydride batteries, lead-acid batteries, etc.

[Learn More](#)

Model BC-06H		Model BC-06	
Measuring range:		Measuring range:	
Battery voltage measurement range:	0-10V accuracy 0.001V resolution 1mV	Battery voltage measurement range:	0 ~ 10V minimum resolution 10mV
Charge and discharge current test range:	5mA-2000mA accuracy 0.001A resolution 1mA	Current measurement range:	0~12A Minimum resolution 1mA
Battery overcurrent measurement range:	0.-20A resolution 0.01A	Internal resistance measurement range:	0~1000 mΩ, minimum resolution 1mΩ
Internal resistance measurement range:	0~999mΩ resolution 1mΩ	Identification resistance measurement range:	0.1~999.9KΩ minimum resolution 0.1KΩ
Resistance measurement range:	0.1~999.9KΩ resolution 0.1KΩ	Capacity measurement range:	0 ~ 10000mAh minimum resolution 1mAh
Capacity measurement range:	0~60000mAh resolution 1mAh		
Test speed:		Test speed:	
Static test 6 items (voltage, internal resistance, short circuit protection, charging, discharging, overcurrent):	0.1-0.3 seconds	Static test (tests all functions):	0.4-0.5 seconds
Capacity test (1C current charge and discharge): 3~4 hours	3~4 hours	Capacity test (1C current charge and discharge):	2 to 3 hours
measurement accuracy:			
1) Voltage measurement accuracy:		±0.01%FS+2 words (10V)	
2) Current measurement accuracy:		±0.1%FS+2 words (2A)	
3) Overcurrent measurement accuracy:		±1%FS+2 words (20A)	
4) Internal resistance measurement accuracy:		±1%FS+1mΩ	
5) Identification resistance measurement accuracy:		100KΩ±1%	
6) Battery capacity measurement accuracy:		60AH±×1%	
Applicable environment of the instrument:			
Temperature:		0~40°C	
Use altitude:		Use within 2Km above sea level	
Relative humidity:		40-80% humidity	
Basic parameters			

Power supply voltage:	220V±10% 50Hz
Power consumption:	up to 50W
Instrument size:	L (285mm)×W (240mm)×H (85mm)
Outer packing size:	L (320mm)×W (300mm)×H (160mm)

8-Channel Battery Sub-Container Capacity Tester

Item Number: BC-07



Introduction

The Channel Lithium Battery Tester Analyzer is an eight-channel battery analyzer that analyzes small coin/cylindrical/pouch cells from 0.001 mA to 10 mA, up to 5V.

[Learn More](#)

Electricity requirement	110V AC or 220V AC selectable for universal use
Power Consumption	4W
Current	<ol style="list-style-type: none"> 1. Range: 0.001mA - 10mA 2. Optional Range: 0.001mA - 1mA, 0.001mA - 5mA, 0.001mA - 10mA, 0.001mA - 20mA, 0.001mA - 50mA, 0.001mA - 200mA 3. Accuracy: $\pm(0.05\%$ of reading + 0.05% of range)
Voltage	<ol style="list-style-type: none"> 1. Range: 5mV - 5000mV programmable 2. Accuracy: $\pm(0.05\%$ of reading + 0.05% of range)
Data register conditions	Time interval: 1 - 900s
Max. measurement cycles	9999 cycles
Product Dimensions	W460mm *D350mm * H90mm
Channels	<ol style="list-style-type: none"> 1. Eight independent programmable channels 2. Each channel can set different working modes and functions independently
Programs & Software	<ol style="list-style-type: none"> 1. The software with calibration function is included to set various working modes for measuring capacity and lifecycle for all types of rechargeable batteries. 2. Working modes Include constant current discharge, constant current charge, constant voltage charge, constant resistance discharge, rest, cycles, etc. 3. Limited threshold conditions include voltage, current, time, capacity, negative voltage slope, etc. 4. With real-time monitoring windows and integrated graph/data windows, the testing process can be observed more directly and efficiently. 5. During the test, the software will provide instructions and warnings for assistance 6. The calibration software can be used to calibrate the analyzer
Test Reports and Curves for analysis	<ol style="list-style-type: none"> 1. Different types of curves can be created by software base on user definition. (Voltage-time curve, current-time curve, capacity-voltage curve, loops times charge/discharge capacity curve, loops times charge/ discharge efficiency curve, etc) 2. Data reports are created by software. User can easily compare the performance of the batteries tested in channels both visually and statistically
Protection and Auto-recover	If the power failure occurs during testing, the system will shut down all operating channels. Once power is recovered, the system will automatically resume those stopped channels and ensure that the test is normally conducted, so that no cases will lose any data.
Battery Holders	<p>Two types of battery holders are included in the standard package:</p> <ol style="list-style-type: none"> 1. 8 alligator clips with cable for universal connecting 2. 8 spring load holders with adjustable length for measuring cylinder battery up to 70mm(H)
Compliance	CE Certified
Net Weight	12 kg

Battery Internal Resistance Tester

Item Number: BC-08



Introduction

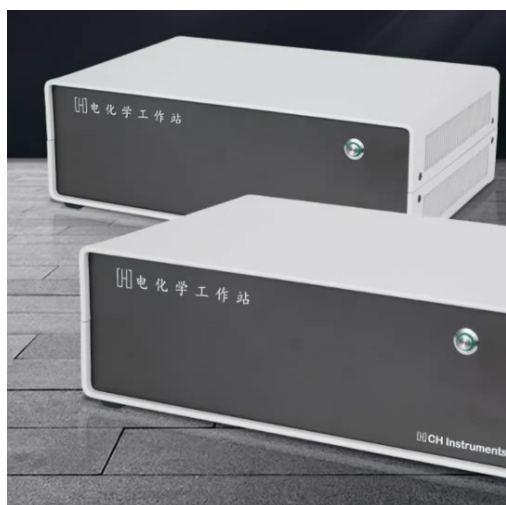
The main function of the battery internal resistance tester is to test the charging function, discharging function, internal resistance, voltage, protection function, capacity, overcurrent, and short circuit protection time.

[Learn More](#)

Function	Range	Measuring range	Resolution	Measurement time	precision
Internal resistance	200mΩ	2-200mΩ	0.1mΩ	10mS	±0.5mΩ
	2Ω	1mΩ-2Ω	1mΩ	10mS	± 1mΩ
Voltage	5V	0-4.999V	0.001V	10mS	±0.001V
	50V	0-49.99v	0.01V	10mS	±0.01V

Electrochemical Workstation/Potentiostat

Item Number: KT-CHIP



Introduction

Electrochemical workstations, also known as laboratory electrochemical analyzers, are sophisticated instruments designed for precise monitoring and control in various scientific and industrial processes.

[Learn More](#)

Model	CHIP600E/CHIP602E/CHIP604E/CHIP610E/CHIP620E/CHIP630E/CHIP650E/CHIP660E
Maximum potential range	$\pm 10V$
Maximum current	$\pm 250mA$ continuous, $\pm 350mA$ peak
Cell voltage	$\pm 13V$
Constant current range	3nA-250mA
Reference electrode input impedance	1e12 ohms
AC impedance	0.00001 ~ 1MHz
Input bias current	
CV and LSV scan speed	0.000001V/s ~ 10,000V/s
Pulse width for CA and CC	0.0001 ~ 1000sec
Minimum sampling interval for CA and CC	1ms
Model	CHIP700E/CHIP710E/CHIP720E/CHIP730E/CHIP7500E/CHIP760E
Maximum current	± 250 mA continuous (sum of both channels), ± 350 mA peak
Cell voltage	± 13 V
Current range	3 nA - 250 mA
Potentiostat rise time	less than 1 ms, typically 0.8 ms
Potentiostat bandwidth (-3 dB)	1 MHz
Reference electrode input impedance	1e12 ohms
CV and LSV scan speed	0.000001 V/s to 10,000 V/s, dual channel simultaneous scan and sampling to 10,000 V/s
Pulse width for CA and CC	0.0001 ~ 1000 sec
Minimum sampling interval for CA	1 ms, dual channel simultaneous
Pulse width for DPV and NPV	0.001 ~ 10 sec
SWV frequency	1 ~ 100 kHz



Kintek Solution

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