



KINTEK SOLUTION

## Battery Tester Catalog

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# KINTEK SOLUTION

## COMPANY PROFILE

### >>> About Us

KinTek Group Limited 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, vaccum creating, refrigerating, as while as pharmaceutical and petroleum extracting equipment.



# 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.

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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)

# 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.

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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

# 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.

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Electricity requirement	110V AC or 220V AC selectable for universal use
Power Consumption	4W
Current	<ol style="list-style-type: none"> <li>1. Range: 0.001mA - 10mA</li> <li>2. Optional Range: 0.001mA - 1mA, 0.001mA - 5mA, 0.001mA - 10mA, 0.001mA - 20mA, 0.001mA - 50mA, 0.001mA - 200mA</li> <li>3. Accuracy: <math>\pm(0.05\%</math> of reading + 0.05% of range)</li> </ol>
Voltage	<ol style="list-style-type: none"> <li>1. Range: 5mV - 5000mV programmable</li> <li>2. Accuracy: <math>\pm(0.05\%</math> of reading + 0.05% of range)</li> </ol>
Data register conditions	Time interval: 1 - 900s
Max. measurement cycles	9999 cycles
Product Dimensions	W460mm *D350mm * H90mm
Channels	<ol style="list-style-type: none"> <li>1. Eight independent programmable channels</li> <li>2. Each channel can set different working modes and functions independently</li> </ol>
Programs & Software	<ol style="list-style-type: none"> <li>1. The software with calibration function is included to set various working modes for measuring capacity and lifecycle for all types of rechargeable batteries.</li> <li>2. Working modes Include constant current discharge, constant current charge, constant voltage charge, constant resistance discharge, rest, cycles, etc.</li> <li>3. Limited threshold conditions include voltage, current, time, capacity, negative voltage slope, etc.</li> <li>4. With real-time monitoring windows and integrated graph/data windows, the testing process can be observed more directly and efficiently.</li> <li>5. During the test, the software will provide instructions and warnings for assistance</li> <li>6. The calibration software can be used to calibrate the analyzer</li> </ol>
Test Reports and Curves for analysis	<ol style="list-style-type: none"> <li>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)</li> <li>2. Data reports are created by software. User can easily compare the performance of the batteries tested in channels both visually and statistically</li> </ol>
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"> <li>1. 8 alligator clips with cable for universal connecting</li> <li>2. 8 spring load holders with adjustable length for measuring cylinder battery up to 70mm(H)</li> </ol>
Compliance	CE Certified
Net Weight	12 kg

# Cylindrical Battery Steel Case

Item Number: BC-03



## Introduction

Lithium-ion battery casing suppresses battery polarization, reduces thermal effects, and improves rate performance.

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Product ingredients	name	Battery shell 18650 explosion-proof type
	steel shell	18.0(D)*67(H)*0.25(T)mm
Assembly parts	Explosion-proof caps	3.7(T)*17.3(D)mm
	pressure limit	18-22MPa
technical indicators 26650		
Cap Cap PTC	riot cap	
Steel shell, cap material	Nitrate-plated A3 steel	
Seal O-ring and Gasket Material	nylon	
washer	PET	
Shell Dimensions (Diameter x Height)	26mm(OD)x25.5mm(ID)x68mm(H)	
Cap Dimensions (Diameter x Height)	25.5mm(D)x5mm(H)	
Dimensions of upper insulating spacer (diameter x thickness)	24.5mm(D)x0.25mm(T)	
Dimensions of lower insulating spacer (diameter x thickness)	24.5mm(D)x0.25mm(T)	
weight	18.75g/pcs	



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