PROFESSIONAL BATTERY TEST MANUFACTURER

Rui Du Mechanical and electrical (Shanghai) Co., Ltd.

Web:www.hvtesters.com

Web:www.wrindu.com

French Web: www.hvtestersupply.com

Spanish Web: www.hvtestersupplier.com

Tel:+86 021-68769756

Mob/WhasApp:+86 137 6424 4609

+86 138 1649 5598

Email:sales@hvtesters.com

Add:500 Jianyun Road,Pudong New District,Shanghai

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Rui Du Mechanical and electrical (Shanghai) Co., Ltd.

BATTERY TEST MANUFACTURER

COMPANY INTRODUCTION

Rui Du Mechanical and electrical (Shanghai) Co., Ltd. is a professional manufacturer and maintenance management solution provider for the global supply of electric and power supply testing equipment.

Rui Du Mechanical and electrical (Shanghai) Co., Ltd. established in 2014, focuses on the independent design, development, production and marketing of high-voltage power test equipment. At the same time, the company closely following up the development of the global new energy market, focuses on the development of battery test equipment, lithium battery test equipment and overall solutions. At the present, its customized battery test products and solutions have been widely used in in rail transit, power telecommunication, new energy vehicles, medical electronics, commercial finance, security communications, transportation logistics, photovoltaic energy storage and other fields. All products of the company have passed the international IS09001 quality certification, IEC certification and CE certification to ensure the controllability and reliability of the product quality.

Relying on Shanghai port's unique regional advantages and with the supporting of China's "one belt, one road" policy, Rui Du Mechanical and electrical (Shanghai) Co., Ltd. has been growing and developing well in recent years. More and more products have been exported to Pakistan, Bangladesh, Nepal, Syria, Iran, Iraq, Burma, Laos, Vietnam, Maldives, Malaysia, Indonesia, Philippines, Egypt, Morocco, Morocco, and Shanghai. Kenya, Zambia, Mozambique, South Africa, Uganda, Rwanda, Zimbabwe, Angola, Guinea, Nigeria and Cuba. In addition, Rui Du Mechanical and electrical (Shanghai) Co., Ltd. is listed as a qualified supplier by NTDC of Pakistan, EEPCO of Ethiopia and UETCL of Uganda.

The corporate culture of the company is "dedication, professionalism, excellence and survival by quality", which enables the company to achieve its own performance growth and create more and more benefits for users.

Rui Du Mechanical and electrical (Shanghai) Co., Ltd. sincerely looks forward to your visit.

WRINDU MANAGEMENT QUALIFICATION AND PRODUCT CERTIFICATION

- ISO 14001:2015-Environment Management System
- ISO 9001:2015-Quality Management System
- ISO 45001:2018-Safety Management SystemSystem

- Wrindu transformers testing equipment are type tested and are certified by the internationally recognized laboratorie

- CE Certification- CONFORMITE EUROPEENNE Certification

- CE Certification- CONFORMITE EUROPEENNE Certification

BATTERY TEST MANUFACTURER

MAP OF MAJOR EXPORTING COUNTRIES

SOUTHEAST ASIA

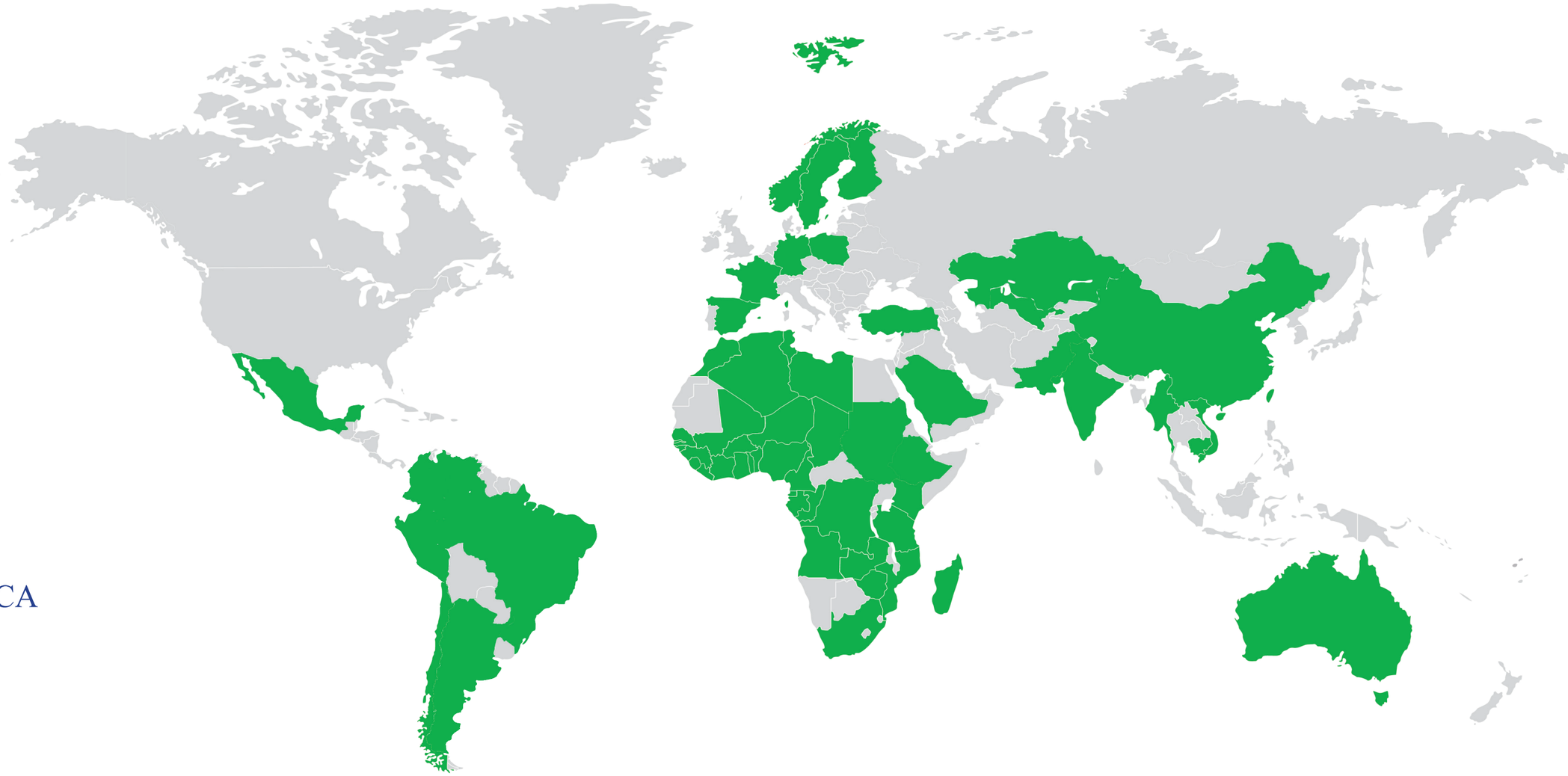
- Pakistan
- Bangladesh
- Nepal
- Burma
- Laos
- Vietnam
- Maldives
- Malaysia
- Indonesia
- Philippines

AFRICA

- Egypt
- Morocco
- Kenya
- Zambia
- Mozambique
- South Africa
- Uganda
- Rwanda
- Zimbabwe
- Angola
- Nigeria
- Ghana

SOUTH AMERICA

- Peru
- Colombia
- Brazil
- Argentina
- Chile

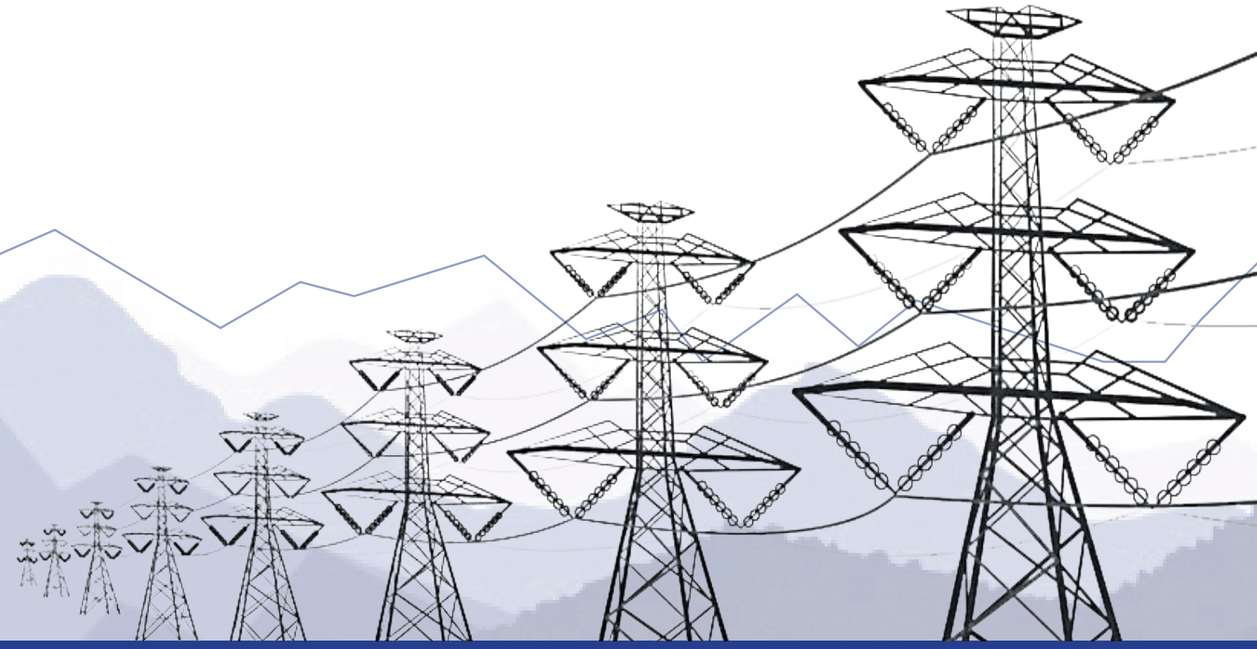


BATTERY TEST MANUFACTURER

MAJOR PROJECTS

OUR MAIN PROJECTS-

SUPPLYING THE WHOLE SOLUTION OF ELECTRICAL TESTING EQUIPMENT



ACHIEVED PROJECTS IN PAKISTAN:

- KAROT 2*720MW Hydro Power Project
- HUBCO 2*660MW Coal Power Project
- New Lahore 500kV Substation
- Shikarpur 550kV Substation

ACHIEVED PROJECTS IN BANGLADESH:

- Patuakhali 2*660MW Coal Power Station (BCPCL)
- Assu Ganjie 2*400MW Power Station

ACHIEVED PROJECTS IN MYANMAR:

- 230KV Bhamo-Nabar Transmission
- 132KV Shweli River Transmission
- Asian Development Bank ; ADB Project

ACHIEVED PROJECTS IN UGANDA:

- Opuyo - Moroto 132 kV Electricity Transmission
- Mutundwe - Entebbe 132 kV Power Transmission Line
- GULU 132/33KV Project

ACHIEVED PROJECTS IN OTHER COUNTRIES:

- Kafrel-Sheikh 550 kV Transformer Substation - (Egypt),
- TRANSCO CLSG project (West Africa),
- Ethiopian Electric Power Corporation (EEPCO) project- (Ethiopia),
- Ethiopia 132kv ADAMA-IISubstation- (Ethiopia)
- Dubai Phase 5 900MW Photovoltaic Power Plant Project-(Dubai)
- Ddahd Power Transmission and Transformation Project-(Ethiopia)

CONTENTS

01 Lithium Battery Tester

RDCD Series Lithium Battery Discharge-Charge Unit 11

RDLI-CT Series Lithium Battery Equalization Tester 12

RDLI-8006CT High Voltage Lithium Battery Discharger 13

RDLI-4-100A Lithium Battery 4-Channel Discharge Charge Unit 14

RDLI-0530CT Lithium Battery Discharge Charge Unit 15

02 Lead-acid Storage Battery Tester

RD-IBC2612 Individual Battery Intelligent Regenerator 16

RD-7000 Battery Impedance Tester 17

RD-8400CT All in one Battery Load Bank 18

RD-8700CT All in one Battery Load Bank 19

RD-CDT Intelligent Battery Regenerator 20

RD-DC Full-automatic Battery Charger 21

RD-8000 Battery Conductance Tester 22

RD-AM Battery Data Logging Device 23

RD-CT Serial Battery Load Bank 24

RD-OLCD On-line Battery Monitoring System 25

RD-JD200 Portable DC Ground Fault Finder 26

After-sales Services 28

RDCD SERIES
LITHIUM BATTERY DISCHARGE-CHARGE UNIT

OVERVIEW

RDCD series tester adopts advanced charging and discharging technology with a variety of built-in test and maintenance modes, which are suitable for the discharge, charging and discharge-charge cycle tests of various lithium battery packs on the market.

CHARACTERISTIC

1. One Machine with Multifunction: wide range design suitable for battery packs' discharge, charge and activation test for different voltage levels.
2. Multi-Discharge Modes: high efficiency aerospace load materials and advanced control technology to ensure discharge accuracy.
3. High-Efficiency Charging: complete 3-stage charging mode to improve charging efficiency.
4. Battery Pack Activation: freely set charge and discharge rules, activation times, and effectively increase battery capacity.
5. Communication: CAN，RS485.
6. Wireless Cell Voltage Recording: wireless monitoring and acquisition technology is used to record each cell voltage.
7. Multiple Protections: supports protection of over-discharge, over-temperature, overcurrent, polarity reversal.

SPECIFICATION

Model	RDCD-A200CT	RDCD-A300CT	RDCD-10030NT	RDCD-60030NT
Group Voltage Range	DC 2-285V	DC 2-285V	DC 2-100V	DC 200-600V
Accuracy & Resolution	±0.5% FS	±0.5% FS	±0.5% FS	±0.5% FS
Cell Voltage Range	0-5V	0-5V	0-5V	0-5V
Accuracy & Resolution	0.001V	0.001V	0.001V	0.001V
Discharge Current Range	0-100A/7.2KW	0-100A/7.2KW	0-30A/2KW	0-30A/18KW
Accuracy & Resolution	±1% FS	±1% FS	±1% FS	±1% FS
Charge Current Range	0-80A/4.4KW	0-80A/6.6KW	0-30A/2KW	0-20A/12KW
Accuracy & Resolution	±1% FS	±1% FS	±1% FS	±1% FS
AC Power Supply	AC220V	AC220V	AC220V	AC220V
Working Mode	Discharge, charge, activation (discharge-charge cycle)			
Communication(PC)	RS485, CAN			
Protection	DC input over voltage, polarity reversal, discharge over current, over temperature			
Dimensions	512*295*339 mm	512*295*339 mm	452*234*286 mm	680*554*334 mm
Weight	25 kg	28 kg	18 kg	40 kg

RDLI-CT SERIES
LITHIUM BATTERY EQUALIZATION TESTER

OVERVIEW

RDLI-CT series tester is an intelligent and efficient lithium battery equalization maintenance instrument, which is used to quickly solve the problem of inconsistent voltage of lithium battery pack. Meanwhile it supports making the voltage difference of any battery, which can be used for research and development experiments to simulate what problems will occur when the battery reaches the maximum voltage difference under harsh working conditions. It is suitable for various types of lithium battery packs and is the best tester for battery manufacturers and distributors.

CHARACTERISTIC

1. Intelligent Test: it can detect and equalized charging or discharge the cell in the battery pack. When charging or discharging the battery pack, it can be ensured that each cell will not be overcharged or overdischarged.
2. Presetting Function: provides equalization test parameter preset function, simplify the operation and speed up the test.
3. Voltage Clamp: constant voltage and reduces current, ensure that the voltage of the cells in the battery pack is infinitely close to the target threshold during the test.
4. Multiple Protections: supports voltage and cell temperature information monitoring, and provide multiple test shutdown thresholds to avoid battery overcharge and overdischarge.
5. 7 inch LCD Touch Screen: for easy operation and showing various parameters real time.

SPECIFICATION

Model	RDLI-1255CT	RDLI-2455	RDLI-3655	RDLI-4855
Test Port	1*12	2*12	3*12	4*12
Charge & Discharge Power	Max 300W	Max 600W	Max 900W	Max 1200W
Voltage Range & Accuracy	1.8-4.2V @±0.1%FS±2mV			
Current Range & Accuracy	0.1-5A @±1%FS±0.05A			
Temp Range & Accuracy	-25 ～ 85℃@±2℃			
Baery Port	16pin/24pin	16pin/24pin	17pin/26pin	26pin/26pin
Display	7 inch touch screen			
PC Data Communicaon	TCP/IP, USB			
Wireless Communicaon	WIFI, BT (WIFI antenna external)			
Charge Mode	Constant current charging + constant voltage charging			
Discharge Mode	Constant current discharge (constant power discharge and constant resistance discharge are oponal)			
Dimensions	455*255*220mm/8.5kg	496*246*262mm/14kg	480*255*430mm/18kg	480*255*590mm/29kg

RDLI-8006CT
HIGH VOLTAGE LITHIUM BATTERY DISCHARGER

OVERVIEW

RDLI-8006CT High-Voltage Lithium Battery Discharger is designed for the rapid discharge requirement of high-voltage lithium battery packs. The discharge voltage can reach 800V. It is equipped with a CAN data bus, which can read battery cell data during discharge. It is an ideal device for battery manufacturers and automobile attembly plants to quickly discharge battery pack during storage, transportation, repair and battery recycling.

CHARACTERISTIC

1. High-Voltage Discharge: the max discharge voltage can reach 800V, meeting the discharge requirements of various high-voltage lithium battery packs.
2. Cell Data Collecion: with CAN data bus, cell data can be read during discharge.
3. Muliple Protections: supports protection of over-discharge, over-temperature, overcurrent, polarity reversal.

SPECIFICATION

Model	RDLI-8006CT
Discharge Voltage Range	200-800V
Accuracy & Resolution	0.1V; ±0.5%FS, max 800V
Discharge Current Range	200-300V:0-30A; 300-400V:0-45A; 400-600V:0-60A; 600-800V:limit power to 36kW, voltage rise current reduced to 45A-60A
Accuracy & Resolution	0.1A; ±1%FS, max 60A
Max Discharge Power	36kw
Discharge Mode	constant current discharge, constant power discharge
Battery Port	7 pin
Display	7 inch touch screen
PC Data Communication	TCP/IP, USB
Dimensions	293*506*773 mm
Weight	45 kg

RDLI-4-100A
LITHIUM BATTERY 4-CHANNEL DISCHARGE CHARGE UNIT

OVERVIEW

RDLI-4-100A integrates discharge, charging and activation functions in one unit with a wider range of current, and can solve various test and maintenance tasks. It can simulate a variety of actual loading operating modes of the battery pack to test the battery performance more comprehensively.

CHARACTERISTIC

1. 4 independent charging and discharging tests, voltage measurement range DC 0-5V, current 0-100A continuously adjustable.
2. Combined test mode, the current can reach up to 400A.
3. Large-capacity data storage, can automatically generate data reports.
4. Integrates discharge, charging and activation functions in one unit, it can solve various test and maintenance tasks
5. Multiple shutdown thresholds can be set. The tester will automatically stop the test to avoid overcharging and overdischarging of the battery and to ensure the safety of the battery and the device itself.
6. 7-inch LCD screen: large LCD touch screen displays test data and charts in real time, supports touch operation, and the user-friendly input method and menu design simplifies the operation process.
7. Intelligent ports: Configure RS485, RJ45, CAN and other data ports, support lithium battery BMS, upper computer, and other intelligent devices for communication.

SPECIFICATION

Model	RDLI-4-100A
Application	Lithium Battery Indusrty, Battey Manufacturer, Automobile Assembly Plant
Discharge Voltage	4 channel, independent, 1-5.000V
Discharge Current	4 channel, independent, 1.0-100A
Charging Current	4 channel, independent, 1.0-100A
Power Supply	AC220V
Working Mode	Discharge, charging, discharge-charge cycle (activation)
Cell Voltage Accuracy	Accuracy: ±0.2%FS+5mV; resolution: 0.001V
Current Accuracy	Accuracy: ±0.5%FS+0.2A; resolution: 0.1A
Dimension	512*296*340mm
Weight	25kg

RDLI-0530CT
LITHIUM BATTERY DISCHARGE CHARGE UNIT

OVERVIEW

RDLI-0530CT can quickly and accurately maintain the cells with large voltage drops in the lithium battery module. During the test process the cell voltage and current are monitored in real time, and the accumulated charge/discharge power is calculated, which is suitable for maintenance testing of various types of lithium barreries.

CHARACTERISTIC

1.Widely applicable: suitable for maintenance testing of various types of lithium batterries such as lithium iron phosphate, ternary lithium and lithium titanate series.

2. Efficient maintenance: the constant current charging and discharging mode is adopted, the maximum charging and discharging current can reach 30A, and the portable design improves maintenance efficiency.

3. Easy to carry: the tester is small in size, light in weight, and easy to carry.

4. Presetting function: provides equalization test parameter preset function, simplify the operation and speed up the test.

5. 3.5 inch LCD touchscreen: for easy operation and showing various parameters real time.

6. Pause function: supports manual pause during the test, and the test can ve continued after adjusting the parameters, without the need to terminate the test.

7. Multiple protecrions: provides multiple test shutdown thresholds to avoid battery overcharge and overdischarge.

SPECIFICATION

Model	RDLI-0530CT
Working Voltage	AC100-264V @50Hz
Voltage Range	1.0-4.5V
Voltage Accuracy	±0.2%FS+5mV@5V
Discharge Current	1.0-30A ±0.5%FS +0.1A@30A
Charging Voltage	1.0-4.5V
Charging Current	1.0-30A ±0.5%FS+0.1A@30A
Display	3.5 inch LCD touch screen
Communication	RS485
Protection	DC input over voltage, polarity reversal, discharge over current, over temperature
Dimensions	230*155*75 mm
Weight	2 kg

RD-IBC2612
INDIVIDUAL BATTERY INTELLIGENT REGENERATOR

OVERVIEW

RD-IBC2612 has 3 independent test methods: battery discharge, battery charge and battery activation. Focusing on the different situation of lag single battery, it can do a discharge test to estimate the real capacity, intelligently charge the battery, and set multiple cycles included discharge and charge to activate the lag battery. It can upload the discharge and charge testing data to PC. In the software you can analyze the quality problem of the lag battery.

CHARACTERISTIC

1. Large data storage capacity; the stored data can be queried, deleted and exported.

2. With USB port.

3. Automatically stops testing for protecting battery when the abnormity of working battery occurs.

4. The activation adopts integrated design with monitoring unit and power unit.

5. PC software for automatic data processing, trend analyzing and reporting.

SPECIFICATION

Model	RD-IBC2612		
Cell voltage measurement type	1.2V/2V/6V/12V		
Cell Voltage measurement range	1.2V/2V: 0 ～ 3V	6V: 4 ～ 8V	12V: 8 ～ 15V
Cell voltage resolution	1.2V/2V/6V: 0.001V; 12V: 0.01V		
Voltage test accuracy	0.50%		
Charge/discharge current range	1.2V/2V: 2A ～ 100A	6V: 2A ～ 30A	12V: 2A ～ 30A
Charge/discharge current control resolution	0.1A		
Current test resolution	1%		
Battery Capacity check range	20Ah ～ 1000Ah	6V:20Ah ～ 300Ah	12V:20Ah ～ 300Ah
AC Power supply	AC 220±15%		
Communication mode	USB port		
Cooling mode	Air Cooling		
Work environment	TEMP:0℃ ～ 50℃; humidity: 5 ～ 9%RH		
Display	LCD		
Dimensions	280×210×240 mm		
Weight	10 kg		
Carrying way	Portable		

RD-7000
BATTERY IMPEDANCE TESTER

OVERVIEW

RD- 7000 Battery Impedance Tester is a portable digital measurement device for testing lead acid stationary batteries health and aging condition precisely within seconds. With the help of this device, either single cells / blocks or large/multi group battery banks can be measured within a short time and the precisely measured data are processed and reported by given analyzer software automatically.

CHARACTERISTIC

1. Ergonomic, user friendly shape.
2. 5" touch screen display.
3. Immediate SOH (State of Health) battery status message.
4. Large capacity (12V/2400mAh) Lithium battery inside for 8 hours testing operation.
5. PC software for automatic data processing, trend analyzing and report.
6. Delivered with testing clamp and testing probe for easy and flexible usage.
7. USB port for quick and easy download and PC communication.
8. Protective soft case with thick wall.

SPECIFICATION

Testing range	Internal resistance: 0.000mΩ-99.999mΩ
	Voltage: 0.000V-25V
Min. measurement resolution	Internal resistance: 0.001mΩ
	Voltage: 1mV
Measurement precision	Internal resistance: ±0.5% rdg ± 6 dgts
	Voltage: ±0.2% rdg ± 6 dgts
Power supply	11.1V,2400mAh; rechargeable lithium battery
Working time	Work for 8 hours continuously
Storage capacity	64MB Flash + 4GB SD Storage
Display	5 inch LCD
Size	220 x 170 x 52 mm
N.W	1.1 kg
Working temperature	-20℃- 60℃
Humidity	90%RH

RD-8400CT
ALL IN ONE BATTERY LOAD BANK

OVERVIEW

RD-8400CT is used for battery systems ranging from 24V/48V/110V/220VDC Battery string. Discharge can take place at up to 110A. If higher current is needed, two or more RD-8400CT units can be paralleled together through RS485 parallel port on the equipment.

CHARACTERISTIC

1. Used to discharge to battery string removed from the system.
2. 4 adjustable stop points and multiple alarm designs to control the discharge process intelligently.
3. Support real time monitoring by PC or SD Card download data after discharge.
4. PC software for capacity evaluation and report generation.
5. Optional wireless modules for 1.2V/2V/4V/6V/12V cells voltage real-time measuring.
6. Automatically discharges batteries unmanned without danger of over-discharging.
7. Individual cell monitoring capabilities via wireless module, can test 24cells.
8. Can be used on a variety of systems with lead acid or nickel cadmium batteries.
9. Test parameters are adjustable during test without stopping.
10. Automatically protects and saves data from an unexpected test stop or end.

SPECIFICATION

Model	RD-8400CT
DC voltage measurement	
Rated total voltages	24V/48V/110V/220V
Discharge ranges	10V-30V; 55A
	30V-150V; 110A
	150V-300V; 55A
Accuracy & resolution	±0.3% FS +0.3V; 0.1 V
DC voltage measurement	
Internal current range	Max.110A at 1-110A adjustable
Accuracy & resolution	±0.5% FS +0.6A; 0.1 A
Cell voltage type	1.2V/2V/4V/6V/12V
Accuracy & resolution	
Power supply	
Power supply	220V AC (-20% to +20%) 50Hz/60Hz
Cooling mode	Forced air cooling

Communication & storage	
Storage mode	USB internal storage
Internal memory	16MB flash or optional
Display	7inch touch screen
HV insulation test	Input-The enclosure: 2200Vdc 1min
	Input-Output: 2200Vdc 1min
	Output-The enclosure: 700Vdc 1min
Safety standard	EN610950
CE certificate	LVD: EN61010-12010; EMC: EN61326-1:2013
Environment	
Work temperature	-5 ～ 50°C
Storage temperature	-40 ～ 70°C
Humidity	5% ～ 95% RH
Altitude	below 4000 m
Working noise	<60 dB
Dimensions of host machine	800 x 290 x 540 mm
Dimensions of package	960 x 530 x 850 mm
Net weight	50kg

RD-8700CT
ALL IN ONE BATTERY LOAD BANK

OVERVIEW

RD-8700CT is used for battery systems range from 24V/48V/110V/220VDC Battery string. Discharge can take place at up to 150A. If higher current is needed, two or more RD-8700CT units can be paralleled together through RS485 parallel port on the equipment.

CHARACTERISTIC

1. Used to discharge to battery string removed from the system.
2. Discharge to battery string voltage as 10V-600V, cell voltage as 1.2V/2V/6V/12V.
3. 4 adjustable stop points and multiple alarm designs to control the discharge process intelligently.
4. Support real time monitoring by PC or SD card download data after discharge.
5. PC software for capacity evaluation and report generation.
6. Optional wireless modules for 1.2V/2V/4V/6V/12V cells voltage real-time measuring.
7. Discharge to battery string voltage as 10V-600VDC, Cell voltage as 1.2V/2V/6V/12V.
8. Automatically discharges batteries unmanned without danger of over-discharging.
9. Individual cell monitoring capabilities via wireless module, can test 24 cells.
10. Can be used on a variety of systems with lead acid or nickel cadmium batteries.
11. Test parameters are adjustable during test without stopping.
12. Automatically protects and saves data from an unexpected test stop or end.

SPECIFICATION

Model	RD-8700CT
DC voltage measurement	
Rated total voltages	10-30V; 50A
	30V-60V; 150A
	60V-150V; 100A
	150V-300V; 50A
	300V-450V; 50A
Discharge voltage ranges	DC 10V-450V
Accuracy & resolution	±0.3% FS +0.3V; 0.1 V
DC voltage measurement	
Internal current range	Max.150A at 1-150A adjustable
Accuracy & resolution	±0.5% FS +0.6A; 0.1 A
Cell voltage type	1.2V/2V/4V/6V/12V
Accuracy & resolution	≤ ± 0.5%; 0.01 V
Power supply	
Power supply	AC 110/220V (-20% to +20%), 50Hz/60Hz
Cooling mode	Forced air cooling

Communication & storage	
Storage mode	USB Internal storage
Internal memory	16MB flash or optional
Display	7inch touch screen
High-voltage insulation test	Input-The enclosure: 2200Vdc 1min
	Input-Output: 2200Vdc 1min
	Output- The enclosure: 700Vdc 1min
Safety standard	EN610950
CE certificate	LVD: EN61010-12010; EMC: EN61326-1:2013
Environment	
Work temperature	-5 ～ 50℃
Storage temperature	-40 ～ 70℃
Humidity	5% ～ 95% RH
Altitude	Below 4000 m
Working noise	<60dB
Dimensions of host machine	355x230x440mm
Dimensions of package	480x250x410mm
Net weight	<50 kg

RD-CDT
INTELLIGENT BATTERY REGENERATOR

OVERVIEW

RD-CDT Battery charge/discharge tester is integrated with constant current discharging, cell voltage collection and intellectualized charging. It provides comprehensive scientific test methods for stationary battery and UPS power system and is widely applied in the field of telecommunications, base station and utilities etc.

CHARACTERISTIC

1. Easy to operate: All input is simple English menu, humanized operation, clear procedure with every step operation prompts.
2. With clear charging and discharging test interface.
3. Analyzing according to the main test function on the histogram and the curve chart, no need to upload the result in PC.
4. Tester host integrated monitoring part and power part together; and power part adopts latest hi-efficiency components.
5. New special low-heat hi-efficiency loading material and advanced control technology are adopted to ensure the higher constant current precision.
6. Powerful analyzing function of PC software; amplify or minify the voltage curve for easy observation.

SPECIFICATION

Available battery group	48V	110V	220V	380V
Charging voltage	40-60V	95-150v	190-300V	350-450V
Charging current	10-150A	1-80A	1-40A	1-20A
Discharging voltage	10-60V	85-135V	80-270V	300-460V
Discharging current	0-150A	0-200A	0-100A	0-60A
Current resolution	1%			
Voltage resolution	0.50%			
Individual cell voltage resolution	0.20%			
Individual cell voltage	0.5V~16V(resolution:1mV)			
Charge and discharging time	0~99H59Min			
Power supply	AC 220V			
Cooling mode	Forced air cooling			
Package	Aluminum alloy trolley case & outer wooden case			
Temperature	Operating temperature: -5~50℃			
	Storage temperature: -40~70℃			
Dimensions	According to specific model			

RD-DC
FULL-AUTOMATIC BATTERY CHARGER

OVERVIEW

RD-DC series full-automatic battery charger has an intelligent three-step charging mode, which realizes the automatical switch between equalized charging and floating charging, and that between constant current and voltage as well as setting and controlling the parameters such as voltage, current.

CHARACTERISTIC

1. Imported high quality military-grade IC chip and components ensure the reliability and stability of this product.
2. Power switch tube (IGBT) adopts USA's original to improve the reliability.
3. Automatical performing the charging in strict accordance with the curve of charging characteristic of storage battery.
4. With advantages of quick charging, high charging recovery rate, no need of watch out, no overcharging incident in an extremely long-time charging assuring the service life of storage battery.
5. Uniform charging voltage can be adjusted in the range, adapting to the charge characteristic requirement of different storage battery and first charging.
6. Digital setting charging current can be adjusted continuously, unaffected by input alternating voltage. During constant current charge there is no need for human operation.
7. With interflow input low-voltage protection, output over voltage, output current limit, output short circuit, output over current and over temperature protection.
8. LCD color screen with English menu; small in size, light in weight ,easy to move.

SPECIFICATION

Model	RD-DC200 48/10	RD-DC200 48/20	RD-DC 110/04	RD110/10	RD-DC200 220/04	RD-DC200 220/10	RD-DC200 380/01
Battery group voltage range	40-60V		95-150V		190V-300V		350V-450V
Charging current	100A	200A	40A	100A	40A	100A	10A
Control precision	Charge current ≤ ±1%; group terminal voltage ≤ ±0.1%; cell voltage ≤ ±0.1%						
PC communication	RS485 interface, USB interface						
Data storage capacity	Built-in 8G SD card and 16G USB flash drive						
Heat dissipation	Forced air cooling						
Temperature	Working range: -5-50℃; storage temperature: -40-70℃						
Humidity	0-90% RH (40±2℃)						
Power supply	Single-phase AC 220V (-20%-+30%), 45-65Hz; charging power supply: refer to nameplate parameters or case label						
Electric strength test	Input-housing: 2200Vdc 1min; input-output: 2200Vdc 1min; output-housing: 700Vdc 1min						

RD-8000
BATTERY CONDUCTANCE TESTER

OVERVIEW

Battery Conductance Tester is a portable digital measurement device for testing lead acid stationary batteries health and aging condition precisely within seconds. With the help of this device, either single cells / blocks or large/multi group battery banks can be measured within a short time and the precisely measured data are processed and reported by given analyzer software automatically.

CHARACTERISTIC

1. Ergonomic, user friendly shape.
2. 5" touch screen display.
3. Immediate SOH (State of Health) battery status message.
4. Large capacity (12V/2400mAh) Lithium battery inside for 8 hours testing operation.
5. PC software for automatic data processing, trend analyzing and report.
6. Delivered with testing clamp and testing probe for easy and flexible usage.
7. USB port for quick and easy download and PC communication.
8. Storage volume: 64MB Flash + 8G SD card.
9. Protective soft case with thick wall.

SPECIFICATION

Measure range	Conductivity: 20 ～ 19990S; voltage: 0.000v-25v
Min. resolution	Conductivity: 1S; voltage: 1mV
Measure accuracy	Conductivity: ±0.5% rdg ± 6 dgts; Voltage: ±0.2% rdg ± 6 dgts
Power supply	11.1V,2400mAh, chargeable Li-battery
Consumption	Work for 8 hours continuously
Storage volume	64MB Flash + 8G SD card
LCD	5" colour touch screen
Dimensions	220 x 170 x 52 mm
Weight	1.1 kg

RD-AM
BATTERY DATA LOGGING DEVICE

OVERVIEW

RD-AM stationary battery data logging devices is the dedicated monitoring equipment for monitoring lead acid battery. Battery string voltage is from 24V-600V and cell voltage is at 2V/6V/12V .

CHARACTERISTIC

1. Wireless transmission to collect data: real-time monitoring monomer battery voltage, current, and recording discharge and charge process.
2. With three monitoring modes: on-line charging monitoring and on-line discharge monitoring to battery string and hang line monitoring for a long time.
3. Each wireless cell voltage collection module can collect 24cells 2V/6V/12V.
4. 7 inch LCD touch screen for easy operation and showing various parameters.
5. Alarm function: in view of the backward monomer abnormal situation, the system will automatically alert the tester with sound alarm.
6. Support real time monitoring by PC or SD card download data.

SPECIFICATION

Model	RD-AM
Cell battery measurement type	2V/6V/12V
Cell voltage measurement range	2V:0~4V; 6V:0~8V; 12V:0~15V
Cell voltage resolution	2V/6V:0.001V; 12V:0.01V
Battery pack voltage measurement range	0 ～ 600V
Battery pack voltage measurement resolution	≤60V: 0.01V; >60V: 0.1V
Voltage testing accuracy	0.005
Current testing accuracy	0.01
Current monitoring range	0 ～ 300A
working voltage	AC 120V, 60Hz
Working environment	0°C ～ 40°C, 20% ～ 80%RH
Storage conditions	-20°C ～ 70°C, packaging store
Communication mode	RS232 communication and USB communications
Display mode	LCD with high brightness and lardge screen
Dimensions	230 x 230 x 50 mm
Weight	1 kg
Carry method	Portable hand-held

RD-CT
SERIAL BATTERY LOAD BANK

OVERVIEW

Batteries in power plants, transformer substations, telecom company and force communications must provide the equipment they serve with standby power in the event of a power failure. Unfortunately, the capacity of such batteries can drop significantly for a number of reasons before their calculated life expectancy is reached. This is why so important to check batteries regular intervals, and the only reliable way of measuring battery capacity is to conduct a discharge test.

CHARACTERISTIC

1. 7 inch LCD touch screen for easy operation and showing various parameters real time.
2. Selectable discharge mode: constant current /power.
3. 4 adjustable stop points and multiple alarm designs to control the discharge process intelligently.
4. USB download data to PC software for capacity evaluation and report generation.
5. Optional wireless modules for 1.2V/2V/6V/12V cells voltage real-time measuring, each sensor can monitor 24cells at one time.

SPECIFICATION

Model No.	RD-CT24/10	RD-CT48/15	RD-CT48/30	RD-CT110/05	RD-CT110/10	RD-CT110/15	RD-CT220/05	RD-CT220/10	RD-CT380/05	RD-CT380/10
Output voltage	24V	48V	48V	110V	110V	110V	220V	220V	380V	380V
Output current	1-100A	1-150A	1-300A	1-50A	1-100A	1-150A	1-50A	1-100A	1-50A	1-100A
Discharge mode	CC , CP									
Accuracy & resolution	≤±0.5%, 0.01V									
DC voltage measurement										
Internal current range	2-300A; accuracy: ≤ ± 1%; resolution: 0.1A									
Cell voltage Range	0-15V; accuracy: ≤ ± 0.5%; resolution: 0.01 V									
AC power supply										
Power Supply	AC 220V, 50Hz									
Cooling mode	Air Cooling									
Communication & storage										
Storage mode	SD card and internal storage									
Internal memory	16MB flash or optional									
Display	7 inch touch screen									
High-Voltage insulation test	Input-The enclosure: 2200Vdc 1min									
	Input-Output: 2200Vdc 1min									
	Output- The enclosure: 700Vdc 1min									
Safety standard	EN610950									
CE Certificate	LVD: EN61010-12010; EMC:EN61326-1:2013									
Environment										
Temperature	Work temperature: -5 ～ 50°C; storage temperature: -40 ～ 70°C									
Humidity	5% ～ 95% RH									
Altitude	Below 4000 m									
Working noise	<60 dB									
Dimensions of host machine	55x25x44 mm									
Net weight	23 kg									

RD-OLCD
ON-LINE BATTERY MONITORING SYSTEM

OVERVIEW

The battery online monitoring and automatic maintenance system can precisely monitor the actual operating status of the online long-term floating charge battery pack as well as the total voltage, current, voltage of each single cell, internal resistance and negative electrode temperature. Without discharging, it can quickly locate the faulty battery in the long-term floating state of the battery, and accurately judge the reliability of the battery capacity. With the use of network, it can realize remote signaling, remote telemetering and remote control.

CHARACTERISTIC

1. Able to be independently networked to realize the comprehensive and unified intelligent management of the battery pack.
2. Each battery management module can monitor 1~4 sets of batteries at the same time, 1~300 batteries.
3. Real-time monitoring comprehensive data of the battery pack and with high-speed data acquisition ability.
4. Intelligently analyzing and searching for the battery fault and providing warnings in advance.
5. With high internal resistance measurement accuracy.
6. With high maintenance efficiency, the voltage equilibrium degree is <20 mV.
7. With over voltage, over current and over temperature protection; the battery connections are used in flame retardant materials.
8. The customized wires are directly connected to the battery pole columns, and the installation can also be completed under constant charge.
9. Abundant communication interfaces with the standard MODBUS protocol.

SPECIFICATION

Voltage monitoring range	2V battery 0~3.000V; 12V battery 8.000~16.500V
Voltage monitoring accuracy	0.05%, resolution: 1 mV
Internal resistance measurement range	0~65535μΩ
Measurement accuracy of internal resistance	≤2%; repeat measurement accuracy: ± 1%
Range of current monitoring	0 ~ ± 1000A (50A, 150A, 300A, 500A, 1000A is optional)
Current monitoring accuracy	≤1%; resolution: 0.1A
Temperature monitoring range	-55℃~+125℃; accuracy: 0.5℃
Voltage equalization degree	<20 mV
SOC accuracy	＜ 10%
SOH accuracy	＜ 10%
Data refresh speed	<1s
Input insulation resistance	≥10MΩ, 600V
Size	Display host: 198×140×46 mm (excluding wiring terminals and fixtures)
	Data collector: 151×82×27 mm (excluding terminals and fixtures)
	Single module: 90.5×54.5×20.6 mm (excluding terminals)
Work environment	Temperature: -20℃~60℃; humidity: 10%~80% RH, no condensation

RD-JD200
PORTABLE DC GROUND FAULT FINDER

OVERVIEW

RD-JD200 can not only provide a solution on accurately testing the faults of the indirect-grounding of the direct current system, non-metal grounding, loop grounding, simultaneous grounding of the anode and cathode, balanced grounding of the anode and cathode and multi-point grounding; it also can accurately display the system voltage, voltage to ground and grounding resistance value. It truly eradicates the fear of trouble in the rear for the operating and testing personnel.

CHARACTERISTIC

1. The device uses a high resolution (0.1mA) signal sampling DC clamp meter that can achieve multi-points grounding and high resistance ground point positioning.
2. Clamping the circuit branch and pressing the operation button can complete the testing of a circuit branch within 3-6s.
3. The signal generator and the tester are not subject to the distance limit.
4. Safe to operate and reliable.

SPECIFICATION

The range of testable grounding resistance	0 -500KΩ (when the system voltage is 220V)
	0 -250KΩ (when the system voltage is 110V)
	0 -50KΩ (when the system voltage is 48V)
	0 -10KΩ (when the system voltage is 24V)
The output power of the signal generator	≤ 0.2W
The ground impedance distribution capacitance value	The ground capacitance of single circuit branch ≤ 8uF
	The total system ground capacitance ≤ 100uF
The applicable DC system voltage	220V±10%, 110V±10%, 48V±10%, 24V±10%, or other voltage ranges suggested by the user
The environment temperature	-35℃ ～ +55℃
The relative humidity	≤95%
Total mass	2.8 kg
Package size	450x180x360 mm
Outline dimensions	460x240x120 mm

AFTER-SALES SERVICES

Our company has a well-trained after-sales service team. According to the after-sales service commitment, we are to provide customers with high-quality and efficient services, including product installation, technical guidance for commissioning, technical training for users and all technical support services required in products maintenance.

1. During the "three guarantees" period (within12 months), our company provides the following after-sales (technical) services free of charge:

(1) Regularly organizes remote training for users on equipment installation, commissioning, operation and maintenance technology according to users' requirements;

(2) Provides users with detailed product manuals and other technical documents stipulated in the contract;

(3) Once receiving the user's complaint on the quality of products, we will response immediately within 12 hours, and provide free replacement parts with free shipping and free training during the three guarantees period of products;

(4) Provides a follow-up technical support system for users, and the software is to be upgraded free within 12 months;

(5) Regularly keeps track of users' feedback on the quality of products once or twice a year. Users' opinions and suggestions on products and services are precious for us to improve our work and the supply of spare parts.

2. Even beyond the product "three guarantees" period, our factory will continue to provide our users with timely and satisfactory technical advice and related services, be responsible for the lifelong maintenance of the products, and ensure the supply of consumables and spare parts required for product use and maintenance. For the replacement and repair, the fee charged will be only the cost of replacement and repairing parts.

3. We will provide free lifelong return-to-factory calibration service and provide its factory calibration reports.

Rui Du Mechanical and electrical (Shanghai) Co., Ltd.