PROFESSIONAL ELECTRICAL 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

SCAN ME ,SURPRISE YOU

SCAN ME ,SURPRISE YOU

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

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

sincerely looks forward to your visit

COMPANY PROFILE

Rui Du Mechanical and electrical (Shanghai) Co., Ltd. is a professional Electrical test equipment、power testing equipment and Cable test equipment manufacturer and system solution provider for the global marketing.

- Over **10 years** of professional experience in global market service
- Exported products to more than **120 countries**
- Passed more than **40+** CE certification and ISO 9001 quality system certification
- Provided professional sales and support VIA **34** technical engineer and **16** sales personnel

We passed more than

30 management and quality certifications

COMPANY PROFILE

ISO 9000 Series

CE Certifications

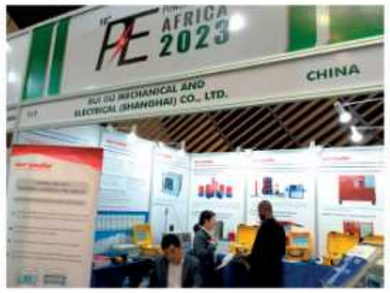
National Calibration Certifications

BUSINESS PHOTOS

Company Park



Exhibition Photos

Workshop



ELECTRICAL TEST MANUFACTURER

MAP OF MAJOR EXPORTING COUNTRIES

SOUTHEAST ASIA

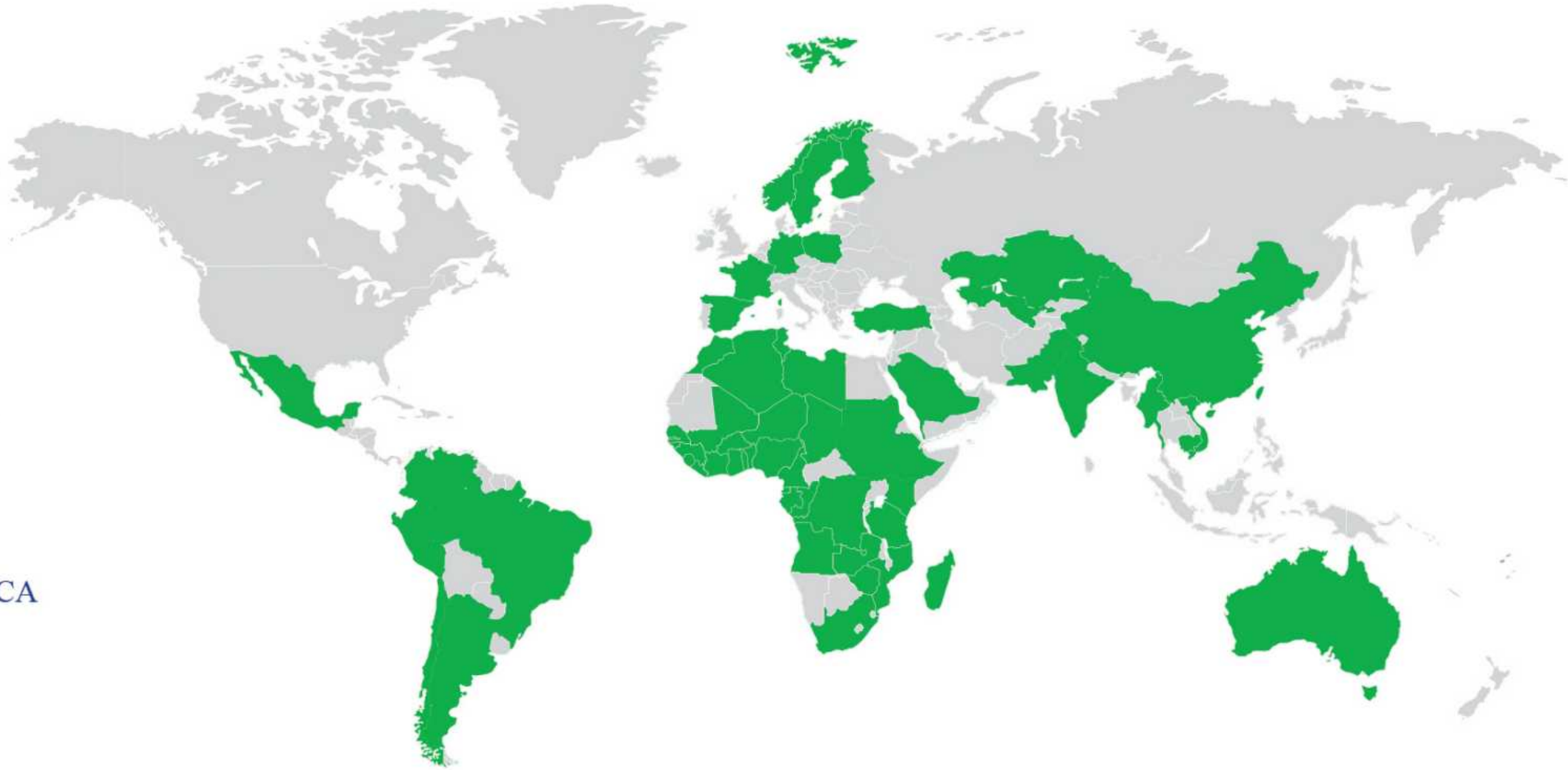
- Pakistan
- Bangladesh
- Nepal
- Burma
- Laos
- Vietnam
- Maldives
- Malaysia
- Indonesia
- Philippines

AFRICA

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

SOUTH AMERICA

- Peru
- Colombia
- Brazil
- Argentina
- Chile



ELECTRICAL 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

ELECTRICAL TEST MANUFACTURER

SERIES RESONANCE TEST DEVICE

SERIES 1

RDXZF-100KVA/20KV SERIES RESONANT DEVICE WITH VARIABLE FREQUENCY

Product Characteristics

1.The required power capacity is greatly reduced, which is only 1/Q of the test capacity.

2. The weight and size of the device is greatly reduced to 1/10-1/30 of the taditional test device.

3. Obtaining a good sinusoidal waveform by reducing the waveform distortion of output voltage.

4. Efficiently finding the insulation weakness and preventing large short-circuit current from burning the fault point.

5. No recovery overvoltage.

6. Three working modes (automatic mode, manual mode, automatic tuning & manual boost mode) available for users to choose from.

7. Digital data can be stored and printed off-site.

8. Automatical frequency scanning with the result intuitively displayed on the LCD screen.

9.The DSP platform technology is adopted to make the human machine exchange interface more humanized.

Main Technical Parameters

Frequency regulation range	30-300Hz
Device output waveform	Sine wave
Waveform distortion rate	<1.0%
Allowable continuous working time	60 minutes at one time under rated conditions
Quality factor of this device	Q>50
Input power	Three-phase 380V or single-phase 220V
System measuring accuracy	Effective value of the system is 1.5
Protection functions	Over-voltage, over-current, zero start, flashover and other protection functions
Temperature rise	Temperature rise ≤65K after continuous operation under rated load for 60min
Environment temperature	-20℃-55℃
Relative humidity	≤90%
Note: Our company makes products with different specifications and special functions according to the requirements of users.	

RDXZL-800KVA/50KV POWER FREQUENCY SERIES RESONANT TEST SYSTEM

Product Characteristics

1. The required power supply capacity is greatly reduced to 1/Q (usually Q≥10) of the traditional power capacity.

2. Smaller in size and lighter in weight with the same capacity.

3. The waveform distortion rate is less than 1%.

4. The applied series resonance is characterized by a steady voltage boost and easy operation.

5. To effectively prevent a further damage to the test product when it discharges, or is broken down.

6. Multithrottle reactors are used in series and parallel way, which makes a single piece smaller and lighter.

7. Low noise during overall use. The oil-immersed tpye and iron shell structure are adopted.

Main Technical Parameters

Rated capacity	800kVA
Working power supply	Three-phase 380V, power frequency 50Hz
Maximum rated AC voltage	50kV
Maximum rated AC current	16A
Output frequency	50Hz
Device output waveform	Sine wave
Waveform distortion rate	≤1.0%
Allowable continuous working time	5 minutes at one time under rated conditions
Temperature rise	Temperature rise ≤50K after continuous operation under rated load for 5 min
Quality factor of this device	Q≥20 (f=50Hz)
Protection functions	Over-voltage, over-current, flashover and other protection functions
System measuring accuracy	Effective value of the system is 1.0
Note: Our company makes products with different specifications and special functions according to the requirements of users.	

RDXB(WJ)-450KW TRANSFORMER INDUCED VOLTAGE WITHST AND PARTIAL DISCHARGE TEST SYSTEM

Product Characteristics

1. Suitable for the partial discharge and induction withstand voltage test of power transformer of 400kV/350MVA and below.
2. AC power frequency converter adopts a linear amplification circuit; sine wave output with small waveform distortion.
3. Automatic and steady voltage adjustment.
4. Overvoltage, overcurrent and other protection functions make the device safe and reliable.
5. Optical fiber is used to transmit high voltage signal, which completely isolates the high-voltage and low-voltage circuits.
6. With automatic and manual control modes.
7. Synchronized voltage, current and frequency display.
8. It has the function of resonant withstand voltage test.
9. With automatic resonant frequency search function, automatic sweeping of multiple frequency segments can be set.

Products Composition

Name	Specification	Quantity
1. No partial discharge AC power frequency converter and control box	RDXB(WJ)-450kW	1 unit
2. No partial discharge excitation transformer	RDB(WJ) — 450kV/2*±10/35 Low voltage：2×300/350V/400V	1 unit
3. No partial discharge compensation reactor	RDBK(WJ)-35kV（6H/8A，3H/12A、25kV/1H/20A）90min	4 units
4. No partial discharge capacitive voltage divider and coupling capacitor	FRC(WJ)- 100kV/300pF	1 unit
5. Partial discharge comprehensive analyzer	RDPDD-104H	1 unit

Technical Parameters

Rated input power supply	380V±10% (three-phase); 50Hz
Rated output power	450kW
Rated output capacity	450kVA
Rated output voltage	Single phase 0~350V
Output phase	Single phase
Adjustable frequency range	20Hz~300Hz
Output frequency resolution	0.01Hz
Output frequency instability	≤0.05%
Output voltage waveform	Sine wave; waveform distortion rate ≤ 1.0%
The amount of partial discharge	≤10pC
System working hours	90min
Insulation level	1.2 times the rated voltage withstand voltage 1min
Note: Our company makes products with different specifications and special functions according to the requirements of users.	
Quality factor	Q > 100 (f=30Hz)
AC power frequency converter	450kW (push-pull linear amplification)

PARTIAL DISCHARGE TEST EQUIPMENT

SERIES 2

RDPDD-104H PARTIAL DISCHARGE TESTER

Product Characteristics

1. Multi signal channel, desktop, TFT LCD display, reliable system, low failure rate and strong anti-interference ability.
2. Integrating the functions of partial discharge measurement, diagnosis and online monitoring.
3. Test report can be generated automatically according to the test process, and can be browsed and printed.
4. The re-display sampling function can restore the saved data file into a waveform and display it on the screen.
5. 4-channel electrical signal and 4-channel optical signal input ports can simultaneously measure and analyze multiple partial discharge signals.

Technical Parameters

Number of interfaces	4 separate interfaces
Sampling rate	1M/S, 5M/S, 10M/S (optional)
Sampling accuracy	12 bit
Range changing	-40dB, -20dB, 0dB, 20dB, 40dB, 60dB, 6 types in total
Measurement frequency range	3dB bandwidth 10kHz ~ 1MHz
Digital filtering	10kHz ~ 1MHz (optional)
Program controlled filter segmentation	Low frequency: 10kHz, 20kHz, 40kHz, 80kHz
	High frequency: 100kHz, 200kHz, 300kHz, 400kHz
Nonlinear error in the range	10%
Measurement range	0.1pC ~ 100,000pC
Detection sensitivity	0.1pC
Capacitance range of the measured product	6pF ~ 250μF
Frequency range of test power	50 ~ 500Hz

Display	
Display screen	12" TFT true color LCD touchscreen
Resolution	1024×768
Interface	
USB	3 ports, external mouse, keyboard or other removable storage devices can be attached
Power supply	AC 230V; 50Hz; Power 300W
Electric signal interface	4 BNC interfaces, used for signal input
Optical signal interface	4 channels, used for signal input
Network interface	1 channel
Grounding terminal	External grounding

General instruction	
CPU	Basic frequency 1.60GHz
Ram	2.0GB
Hard disk	128GB SSD
System	Windows Xp
Operating environment	Ambient temperature: -10 ~ 45℃ ; Humidity: ≤95%RH
Dimensions	Length×width×height: 474mm × 288mm × 370mm
Weight	15.8kg

RDPDZ-104H TRANSFORMER PD INSPECTION DEVICE

Product Characteristics

1. Small size, light weight, portability and easy operation.
2. Backlight LCD screen.
3. Built-in lithium battery.
4. Providing the functions of storing and reading two-Dimensionsal and three-Dimensionsal maps.
5. Automatic gain control adjustment is adopted, with strong anti-interference ability.
6. Signal-noise ratio has been reduced by a variety of anti-interference means.
7. RFID / WiFi / Bluetooth functions of the instrument contribute to expand the application of IOT.
8. The internal integrated discharge types database facilitates the comparative analysis and verification of discharge.
9. Multi-cycle display mode for time-domain waveforms precisely distinguishs interference from discharge.
10. Patrol inspection data can be exported to PC through SD card or U disk to complete the creation of user reports.

Technical Parameters

Host	
Number of detectable channels	4 channels: 1TEV, 1US, 1UHF (wireless, optional), 1 HFCT(wireless, optional)
Sampling accuracy	12bit
Synchronization mode	Internal synchronization, external synchronization, optical synchronization
TEV	
Measurement frequency range	3M-100MHz
Measuring range	0 ~ 60dB
Measurement error	±2dB
Resolution	1dB
Maximum pulses per cycle	720
Minimum pulse frequency	10Hz
Output interface	Standard SMA connection host
Non-contact US	
Center frequency	40kHz
Resolution	0.1uV
Accuracy	**±0.1uV**
Measuring range	0.5uV ~ 1mV
Output interface	Standard SMA connection host

Technical Parameters

Contact US	
Frequency range	20kHz ~ 300kHz
Output impedance	50Ω
Detection sensitivity	0.1mV
Measuring range	0.1mV ~ 1V
Output interface	Standard SMA connection host
HFCT (Optional)	
Measurement frequency range	1M-30MHz
Transmission impedance	>5mV/mA(10MHz)
Output impedance	50Ω
Measuring range	-20~80dB
Measurement error	±1dB
Resolution	1dB
Output interface	BNC interface-signal conditioning unit, wirelessly connected to the host
UHF (Optional)	
Measurement frequency range	300MHz ~ 1.5GHz
Detection sensitivity	< -60dBm
Receiving method	The antenna
Transfer method	Coaxial cable
Output method	BNC interface - signal conditioning unit, wireless connection to the host
Hardware	
Display screen	5.0 inch TFT true color LCD screen
Resolution	800×480
Operate	Touch/Key
Data storage	TF card
Interface	3.5mm stereo headphone jack
Power supply	DC-12V/2A DC Power Supply
Extended function	USB-type C/5 million cameras /RFID/WIFI/ Bluetooth
Power supply	
Internal power supply	Battery powered (4800mAH 7.4V)
Normal working hours	About 7 hours, and the full charge time of the battery is about 3 hours
Measure	
Length× Width× Height	235mm×133mm×48mm
Weight	0.85kg
Environment	
Operating temperature	-20℃ ~ 50℃
Storage temperature	-40℃ ~ 70℃
Humidity	10%-90% RH (non-condensing)
Altitude	≤3000m

HIGH VOLTAGE INSULATION TEST EQUIPMENT

SERIES 3

RDCJ-DY SERIES LIGHTNING IMPULSE VOLTAGE GENERATOR

Product Characteristics

1. Complete sets, full voltage classes. 2. Small loop inductance and the band elimination filter measures make the wave adjustment convenient.
3. Simple operation, excellent synchronization performance, reliable action.
4. Constant current charging technology, high automation, strong anti-interference performance.
5. Digital measurement and analysis system and computer on line processing system for impulse test data, greatly improve the test technology and efficiency.

Technical Parameters

Items	1.2/50μs; 250/2500μs; 2~5μs; and other waveforms	Display screen	17-inch TFT color screen
Output peak value	100~10000kV	Measurement display precision	Better than 3%
T1 wave front time	1.2μs±30%	Tested product residual voltage	<5kV
T2 wave tail time	50μs±20%	Voltage measurement	Use damped impulse divider
Reverse overshoot	<20%	Oscilloscope	TBS series, optional
Voltage polarity	Positive/negative(manual shifting)	Insulation strength	≤500V RMS (common to ground refer PE)
Waveform shift	Auto shifting	Power source	AC220V±10%, 50/60Hz
Charging time	10s~999s, set arbitrarily	Environment temperature	-10±40℃
Instability of charging voltage	<1%	Relative humidity	35%-85% RH (no condensation)
External input	50Hz/60Hz	Ground resistance	≤0.5Ω
Trigger method	Auto or manual, can single trigger	Waveform	Sine wave; waveform distortion <5%
Trigger maloperation rate	<1%	Structure type	Open structure, independent control cabinet and main body, optical fiber connection
Trigger range	100% rated charging voltage	Control console	L×H×W: 1.8m×1.2m×1m
No conductive dust, no fire and explosion hazards, no corrosive metal and insulation gas.			

RDDF-5/400 AND RDDF-10/400
MULTIPLE FREQUENCY VOLTAGE GENERATOR

Product Characteristics

1. It has over-voltage, over-current, zero start, flashover and other protective functions.
2. Light weight, easy to use on site.
3. Two working modes (automatic and manual) available for users to choose from.
4. Digital data can be stored and printed in different places.
5. Human-computer exchange interface is humanized by the application of DSP platform technology.

Technical Parameters

Capacity	5 kVA and 10kVA (The capacity can be customized)
Input voltage	AC three-phase, 380V ± 10% (Note: single phase 220 V can also be connected to A and C terminals of power input. At this point the capacity is halved)
Power frequency	50 Hz
Output voltage	0 ~ 400V (Output voltage can be customized)
Output frequency	50 Hz, 100 Hz, 150 Hz, 200 Hz, (can be customed)
Waveform distortion rate	< 3%

RDSF-15/500
TRIPLE FREQUENCY VOLTAGE GENERATOR

Product Characteristics

1. Simple operation and reliable performance.
2. It can well meet the needs of induction withstand voltage of transformer.

Technical Parameters

Input voltage	Three phase 380V, 50 Hz
Output voltage	Single phase 0 ~ 500V
Output frequency	Single phase 150Hz
Rated capacity	15kVA
Harmonic distortion	< 5% - 8%
No load operation time	≤ 5 minutes
Duration of test object under rated voltage	40s

RDSLZ-82-2000A INTELLIGENT PRIMARY CURRENT INJECTOR

Product Characteristics

1. Small size, light weight and good performance.
2. Easy to use and maintain.
3. 7-inch true color HD digital screen.

Technical Parameters

Rated capacity	12kVA
Input voltage	AC 380V
Input current	31.5 A
Output voltage	6 V
Output current	2000 A
Current accuracy	± 0.5
Display mode	7 inch true color HD digital screen
Touch mode	more accurate resistive touch
Operation mode	automatic, manual
Data storage	60 groups

Note: Our company makes products with different specifications and special functions according to the requirements of users.

RDVLF VERY LOW FREQUENCY HV TEST SET

Product Characteristics

1. Data of current, voltage, waveform can be directly sampled at high voltage side, so the data is real and accurate.
2. Excellent over-voltage and over-current protection, with the action time less than 20ms.
3. High-voltage output protective resistor designed in the boost leads no need of another outside protective resistor.
4. The adoption of high and low voltage closed loop negative feedback control circuit causes no capacitance effect.

Technical Parameters

Output voltage ratings	50 kV or 80 kV
Output frequency	0.1Hz; 0.05Hz; 0.02Hz
Load capacity	0.1Hz: maximum 1.1μF
	0.05Hz: maximum 2.2μF
	0.02Hz: maximum 5.5μF
Measurement accuracy	3%
Positive and negative voltage peak errors	≤ 3%
Voltage waveform distortion	≤ 5%
Power supply fuse tube	10A
Power	AC 220V ±5%, 50Hz
Use conditions	Temperature: -10℃~+40℃； Humidity: ≤ 85% RH

RDZG DC HIGH VOLTAGE GENERATOR

Product Characteristics

1. High frequency PWM technology is adopted for closed-loop adjustment, with high voltage stability, small ripple factor and good reliabilty.
2. Smoothly linear voltage regulation over full scale, with the accuracy better than 0.1%.
3. The pulsation factor is less than 0.5%. It can be used all day at the work site.
4. The high voltage multiplier packaged with DuPont material in all solid state surpasses the air and oil filled equipment. Large base with glossy outer tube can be placed steadily and easy to maintain.
5. 75%MOA voltage conversion button facilitates the arrester testing.
6. With over-voltage, over-current, zero start and short-circuit discharge protection functions.
7. Shockproof control box in overall design together with concise panel and voice prompt during operation.

Specifications and Technical Parameters

"Voltage kV/ Current mA"	Rated voltage	Control box		DC high voltage generator	
		External Dimensions (mm)	Weight (kg)	External Dimensions (mm)	Weight (kg)
60/2-10	60kV	310*250*230	5	470*260*220	6
80/2-10	80kV	310*250*230	6	490*260*220	8
100/2-10	100kV	310*250*230	6	550*260*220	8
120/2-10	120kV	310*250*230	7	600*260*220	10
200/2-5	200kV	310*250*230	8	1000*280*270	20
250/2-5	250kV	310*250*230	8	1130*290*270	20
300/2-5	300kV	310*250*230	9	1300*290*270	22
350/2-5	350kV	310*250*230	9	1370*290*270	24
Output polarity	Negative voltage polarity, zero voltage start, linearity continuously adjustable				
Working power supply	AC220V±10% ; 50HZ ± 1%				
Voltage measurement accuracy	± 0.5% ± 2 digits; minimum resolution 0.1kv; measuring range :10%fs to 1.1fs				
Current measurement accuracy	± 0.5% ± 2 digits; minimum resolution: 0.1 μA for anti-impact ammeter, 1 μA for control box; measuring range:10%fs to full scale				
Ripple coefficient	≤0.5%				
Voltage stability	Random fluctuation, ≤ 0.5% when the grid voltage changes ± 10%				
Operation mode	Intermittent working system, less than 30 minutes under rated load				
Working conditions	Temperature: 0-40 ℃, humidity ≤90% RH				
Storage conditions	Temperature: -10℃ ～ 40℃, humidity ≤90% RH				
Altitude	Below 3000 meters				

Note: External Dimensions of DC high voltage generator = diameter of equalizing cover (R) * semidiameter of insulating cylinder (r) * total height (H)

YDG SERIES AC HIGH-VOLTAGE DRY-TYPE TESTING TRANSFORMER

Product Characteristics

1. Small size, light weight, compact structure, no oil leakage, maintenance free and environment friendly.
2. Simple and intuitive wiring, easy to use.
3. Good safety and reliability, beautiful appearance.

Specifications and Technical Parameters

"Voltage kV/ Current mA"	Capacity (kVA)	Low voltage side		High voltage side		Weight (kg)
		voltage (V)	current (A)	voltage (kV)	current (mA)	
5/50	5	200	25	50	110	30
10/50	10	200	50	50	200	40
15/50	15	200	75	50	300	50
20/50	20	200	100	50	400	55
25/50	25	200	125	50	500	60
30/50	50	200	150	50	600	65
5/100	5	400	12.5	100	50	60
10/100	10	400	25	100	100	65
15/100	15	400	37.5	100	150	70
20/100	20	400	50	100	200	75
25/100	25	400	62.5	100	250	80
15/120	15	400	37.5	120	125	85
20/120	20	400	50	120	160	90
25/150	25	400	62.5	120	200	95
30/120	30	400	75	120	250	100

Note: Can be customized according to the users, parameters of unlisted products are not limited to the scope of the table.

YDJ SERIES AC HIGH-VOLTAGE OILIMMERSED TESTING TRANSFORMER

Product Characteristics

1. Stable, durable, with compact structure, and at low price.
2. Small size, light weight, simple and intuitive wiring, easy to use.
3. Good insulation reliability and beautiful appearance.

Specifications and Technical Parameters

Specifications	Capacity (kVA)	low voltage side		high voltage side		Measurement ratio	"Temperature rise °C (30 mins)"
		voltage (V)	current (A)	voltage (kV)	current (mA)		
5/50	5	50	100	200	25	500:1	10
10/50	10	50	200	200	50	500:1	10
20/50	20	50	400	400	50	500:1	10
30/50	30	50	600	400	75	500:1	10
50/50	50	50	1000	400	125	500:1	10
5/100	5	100	50	200	25	1000:1	10
10/100	10	100	100	200	50	1000:1	10
20/100	20	100	200	400	50	1000:1	10
30/100	30	100	300	400	75	1000:1	10
50/100	50	100	500	400	125	1000:1	10
20/150	20	150	133	400	50	1500:1	10
30/150	30	150	200	400	75	1500:1	10
50/150	50	150	333	400	125	1500:1	10
50/200	50	200	250	400	125	1000:1	10
50/300	50	300	170	400	125	3000:1	10

Note: Can be customized according to the users, parameters of the unlisted products are not limited to the scope of the table.

YDQ SERIES AC HIGH-VOLTAGE INFLATABLE TESTING TRANSFORMER

Product Characteristics

1. Small size and light weight (40%-65% lighter than the oil immersed testing transformer of the same grade).
2. Clean, no oil stain, no need for maintenance.
3. Not affected by bad weather, and there is no need to stop the test during the on site carry.
4. The insulation strength is higher than that of oil immersed testing transformer, and the corona is very small.

Specifications and Technical Parameters

Specifications	Capacity (kVA)	low voltage side		high voltage side		Measurement ratio	"Temperature rise °C (30 mins)"
		voltage (V)	current (A)	voltage (kV)	current (mA)		
6/50	6	200	30	50	120	500:1	50
10/50	10	200	50	50	200	500:1	50
15/50	15	400	37.5	50	300	500:1	50
20/50	20	400	50	50	400	500:1	50
30/50	30	400	75	50	600	500:1	50
50/50	50	400	125	50	1000	500:1	50
10/100	10	200	50	100	100	1000:1	50
15/100	15	400	37.5	100	150	1000:1	50
20/100	20	400	50	100	200	1000:1	50
30/100	30	400	75	100	300	1000:1	50
50/100	50	400	125	100	500	1000:1	50
10/150	10	200	50	100	66.7	1500:1	50
15/150	15	400	37.5	150	100	1500:1	50
20/150	30	400	50	150	133.3	1500:1	50
30/150	30	400	75	150	200	1500:1	50
50/200	50	400	125	200	250	2000:1	50
50/300	50	400	125	300	166	3000:1	50

Note: Can be customized according to the users, parameters of unlisted products are not limited to the scope of the table.

AC WITHSTAND VOLTAGE TEST DEVICE

Product Characteristics

1. High-voltage test transformer: top-quality materials, reliable, and stable.
2. Wide voltage margin, minimal corona sound, and low partial discharge.
3. Compact and lightweight, thanks to innovative insulation materials.

Specifications and Technical Parameters

Model. No	RDYDZ-5kVA/100kV	RDYDZ-10kVA/100 kV
Test transformer (dry type)		
Capacity (kVA)	5	10
Output current(mA)	50	100
Input current(A)	20	40
Output voltage(kV)	AC 0 -100	
Input voltage(V)	AC 0-250	
Measurement ratio	1000	
Intelligent control box		
Capacity (kVA)	5	10
Input current(A)	22.7	45.5
Output current(A)	20	40
Input voltage(V)	220 V, 50Hz	
Output voltage(V)	AC 0-250	
Voltage accuracy	±1	
Current accuracy	±1	

TRANSFORMER TESTING INSTRUMENT

SERIES 4

RD8100B TRANSFORMER CORE GROUNDING CURRENT TESTER

Product Characteristics

1. The meter can store 200 groups of data, and the stored data can be exported into the computer through USB interface.
2. Waveform indication, alarm value setting and alarm indication.
3. Historical data reading, consulting, saving, printing and other functions.

Technical Parameters

Function	Transformer core grounding current test; AC leakage current online test
Power supply	DC 9V (alkaline dry battery LR6 1.5V×6)
Test mode	Clamp CT
Jaw size	80mm×80mm
Current range	AC 0.00mA ～ 100A
Resolution	AC 0.00mA ～ 9.99mA, resolution: 0.01mA
	AC 10.0mA ～ 99.9mA, resolution: 0.1mA
	AC 100mA ～ 999mA, resolution: 1mA
	AC 1.0A ～ 100.0A, resolution: 0.1A
Accuracy	±(0.5%rdg+5dgts) (23°C±3°C, below 70% RH, the wire is in the center of the jaw)
Frequency range	10Hz ～ 1000Hz
Sampling rate	1/S
Line voltage	Circuit test under AC 600V
Suitable for safety regulation	IEC1010-1, IEC1010-2-032, pollution level 2, CAT III 600V, I EC61326 (EMC standard)

RD6000A TRANSFORMER TAN DELTA TESTER

Product Characteristics

1.The test result has high precision and is easy to realize automatic measurement.
2. With the frequency conversion technology, reliable data can be measured.
3. With large LCD full touchscreen and super full graphics operation interface, each process is very clear.
4. Equipped with a calendar chip and a large-capacity memory.
5. Instrument data can be exported through U disk, and can be viewed and managed on any PC by special software.
6. Easy to operate and the measurement process is controlled by microprocessor.
7. Integrated model, with standard capacitor and high voltage power supply; convenient for field test and reduces field wiring.
8. It has the function of low voltage shielding for reverse wiring.

Technical Parameters

Accuracy	Cx ± (1%rdg+1pF)	
	tgδ ±(1%rdg+0.00040)	
Anti-interference index	Frequency conversion anti-interference, in 200% interference can still achieve the above accuracy	
Capacitance range	Internal high voltage	3pF~60000pF/10kV; 60pF~1μF/0.5kV
	External high voltage	3pF~1.5μF/10kV; 60pF~30μF/0.5kV
	Resolution	Maximum to 0.001pF, 4 significant digits
tgδ range	No limitation, resolution 0.001%, capacitance, inductance, resistance can be automatically identified	
Test current range	10μA~5A	
Internal high voltage	Voltage setting range	500V~10kV adjustable, resolution 1V
	Maximum output voltage	200mA
External high voltage	UST test mode	Maximum test current 5A, frequency 40~70Hz
	GST test mode	Maximum test voltage/current 10kV/5A, frequency 40~70Hz
Test frequency	Single frequency 40.0~70.0Hz, resolution 0.1Hz	
	Automatic dual variable frequency set at will (from 50±0.1Hz to 50±10Hz)	
	Automatic dual variable frequency set at will (from 60±0.1Hz to 60±10Hz)	
CVT self-exciting low voltage output	Output voltage 3-50V, output current 3-30A	
Measuring duration	About 40s, depending on measuring method	
Power Supply	220V AC, 50Hz ± 1%	
Interface	RS232, USB	
Pinter	Mini-type thermal printer	
Ambient temperature	-10℃~50℃	
Relative humidity	<90%	

RD6001 TRANSFORMER TAN DELTA TESTER

Product Characteristics

1. Intuitive Interface:

User-friendly full-touch LCD for easy operation.

No specialized training needed—ideal for efficient measurements.

2. Smart Data Management:

Calendar chip for organized test result storage.

Quick access to historical records and easy printing.

3. Versatile Testing:

Multiple modes, including internal/external high voltage.

Achieve high-voltage dielectric loss (>10kV) under external mode.

4. Simplified CVT Testing:

One-step CVT testing for dielectric loss, capacitance, ratio, and more.

Measure CVT without removing high voltage lead.

5. Enhanced Features:

Utilize reverse shielding for measuring C0 in CVT.

Digitally controlled inverter for high-speed sampling.

6. Robust Safety Measures:

Multiple protections against fluctuations, short circuits, over-voltage, and more.

Grounding detection to ensure safe voltage boosting.

Technical Parameters

Model. No		RD6001
Anti-interference principle		Frequency conversion method
High voltage output		Range: 0.5kV ~ 10kV , Accuracy: 2% , Maximum current: 200mA , Capacity: 1500VA
CVT test auto-exciting output		AC 0 ~ 50V/15A
Dielectric loss and capacitance test	tgδ	Range: unlimited , Accuracy: ±(reading*1.0%+0.040%) , Resolution: 0.001%
	Cx	Range: 15pF < Cx < 300nF , Accuracy: ±(reading*1.0%+1.00pF) , Resolution: 0.001pF
		Cx < 40nF @ 10kV , Cx < 150nF @ 5kV , Cx < 300nF @ 1kV , Cx < 300nF @ CVT tes
CVT ratio test		Range: 10 ~ 10000 , Accuracy: 0.1% , Resolution: 0.01
Test frequency		50Hz , 60Hz , 45Hz/55Hz , 55Hz/65Hz , 47.5Hz/52.5Hz
Data storage		200 groups, support U disk data storage
Service condition		Temperature: -15℃ ~ 40℃ , Humidity: < 80% RH
Power supply		AC 220V±10% , 50Hz

RDB-IIH PORTABLE TRANSFORMER TURN RATIO TESTER

Product Characteristics

1. Three phase precision inverter is used to eliminate the harmonic effect of the mains voltage and makes the measurement more accurate.

2. Three phase output voltage is adopted to improve the test speed. The transformer connection group (0 ~ 11) can be automatically identified.

3.It is suitable for the measurement of a wide variety of transformers with the most comprehensive measurement parameters.

4. High and low voltage reverse connection protection and other protections increase the stability of the instrument.

5. Automatically measuring the transformer ratio, error value and the exact position of the tap changer (measuring up to 99 tap positions).

6. 7-inch HD color LCD touchscreen with modular display; and each operation step has menu prompt.

7. No power down clock, data storage function and U disk storage function.

8. The multi-functional engineering plastic box with cold and temperature resistance, sealing and waterproofness, anti falling and anti shock is adopted for field test.

Technical Parameters

Test range	0.9~10000
Measurement accuracy	±0.1%+2 digits (0.9 ~ 500)
	±0.2%+2 digits (501 ~ 2000)
	±0.5%+2 digits (2001 ~ 10000)
Resolution	Minimum 0.0001
Output voltage	Automatically adjusted according to the load
Power supply	Built in rechargeable lithium battery or power adapter
Ambient temperature	-10℃ ~ 40℃
Relative humidity	≤85%RH, no condensation

RDZR-10AH TRANSFORMER DC RESISTANCE TESTER

Product Characteristics

1. **Clear Display:**
   7-inch high-res touch screen with 65K true color for excellent visibility, even in bright light.
2. **Portable Power:**
   Operates on internal battery or power adapter for convenient outdoor use.
3. **Temperature Conversion:**
   Converts copper and aluminum temperatures for easy data comparison.
4. **Efficient Battery Management:**
   Digital battery management with residual power display, alarm, and over-current protection.
5. **Power-Off Storage:**
   Stores 1000 test data groups with real-time test time using perpetual calendar.
6. **Easy Connectivity:**
   Includes a U disk interface for seamless data transfer.
7. **Enhanced Protection:**
   Features audible alarm, power overheating, and reverse voltage connection protection.
8. **High-Current Measurement:**
   Maximum 10A measuring gear for quick low-voltage side resistance measurement.
9. **Seamless Operation:**
   On-load switch can be directly switched, with automatic data refresh without resetting.

Technical Parameters

Model. No	RDZR-10AH	
Test current	<20mA, 40mA, 200mA, 1A, 3A, 10A	
Measuring range	0.5mΩ ~ 0.2Ω (10A) 5mΩ ~ 4Ω (3A) 10mΩ ~ 10Ω (1 A) 100mΩ ~ 50Ω (200mA) 1Ω ~ 300Ω (40mA)	Accuracy: ±(0.2%+2d)
	100Ω ~ 50kΩ (<20mA)	Accuracy: ±(0.5%+2d)
Minimum resolution	0.1μΩ	
Display	7-inch touch color LCD	
Data storage	1000 groups	
Work environment	Ambient temperature: 0℃ ~ 40℃ Relative humidity: < 90%RH, no condensation	
Power supply	Built in rechargeable lithium battery or power adapter	

RDB-II TRANSFORMER TURN RATIO TESTER

Product Characteristics

1. Three phase precision inverter is used to eliminate the harmonic effect of the mains voltage and make the measurement more accurate.
2. Three phase output voltage is adopted to improve the test speed. The transformer connection group (0 ~ 11) can be automatically identified.
3. It is suitable for the measurement of a wide variety of transformers, such as Z-type transformer, rectifier transformer, grounding transformer, electric furnace transformer, phase-shifting transformer and balance transformer, with the most comprehensive measurement parameters.
4. High and low voltage reverse connection protection, transformer turn to turn short circuit protection, tap changer opening and closing not in place protection, output full short circuit protection, increase the stability of the instrument.
5. Automatically measuring the transformer ratio, error value and the exact position of the tap changer (measuring up to 99 tap positions).
6. It adopts 7-inch high-definition color touch-screen LCD with modular display, and each operation step has menu prompt.
7. The instrument has both printout, U disk interface and RS232 interface for paperless office.
8. The multi-functional engineering plastic box with cold and temperature resistance, sealing and waterproofness, anti falling and anti shock is adopted for field test.
9. Download the special app to control the instrument, and to store and upload the test data for easy reference.

Technical Parameters

Test range	0.9 ~ 10000
Measurement accuracy	±0.1%+2 digits (0.9 ~ 500)
	±0.1%+2 digits (0.9 ~ 500)
	±0.5%+2 digits (2001 ~ 10000)
Resolution	Minimum 0.0001
Output voltage	Automatically adjusted according to the load
Working power supply	AC 220V±10%, 50±1Hz
Ambient temperature	-10℃ ~ 40℃
Relative humidity	≤85%, no condensation
Overall Dimensions	Host 360*290*170(mm); line box 360*290*170(mm)
Weight	Main engine 5.9kg; line box 5.7kg

RDZR-10A TRANSFORMER DC RESISTANCE TESTER

Product Characteristics

1. The maximum output voltage 24 V enables it to select larger test current when the resistance value is high.
2. Automatically selecting the current according to the load, suitable for the DC resistance measurement of small and medium-sized transformers and voltage transformers.
3. It has multiple reliable protection functions, and gives an alarm simultaneously.
4. It has the function of any temperature conversion of copper and aluminum materials.
5. Intelligent power management technology makes the instrument always operating at minimum power.
6. High brightness 7-inch color LCD touchscreen, clear display under strong light.
7. The instrument comes with perpetual calendar clock and power-down storage, which can store 1000 sets of test data.
8. Bluetooth communication, RS232 communication and USB interface for computer communication and USB data storage.
9. It is equipped with a panel type microprinter, which can print the measurement results.
10. Download the special app to control the instrument, store and upload the test data for easy reference.

Technical Parameters

Test current	AUTO、<20mA、40mA、200mA、1A、5A、10A	
Measuring range	0.5mΩ - 0.8Ω (10A)	Accuracy：±(0.2%+2 digits)
	1mΩ - 4Ω (5A)	
	5mΩ - 20Ω (1A)	
	100mΩ - 100Ω (200mA)	
	1Ω - 500Ω (40mA)	
	100Ω-100KΩ (<20mA)	Accuracy：±(0.5%+2 digits)
Minimum resolution	0.1μΩ	
Display	7 Inch color LCD touchscreen, the significant number of resistance display is 4	
Data storage	1000 groups	
Working environment	Ambient temperature:0℃ ～ 40℃	
	Relative humidity: <90%RH, no condensation	
Power supply	AC 220V±10V, 50Hz±1Hz (fuse 2A)	
Maximum power consumption	200W	
Dimensions	360*290*170 (mm)	
Weight	Host: 6.7kg; Line box: 5kg	

RDZR-20A/40A TRANSFORMER DC RESISTANCE TESTER

Product Characteristics

1. The whole machine is controlled by high-speed single chip microcomputer, with high degree of automation and easy operation.
2. Its new power supply technology is suitable for DC resistance measurement of large and medium transformers.
3. The reliable protection functions reduce the impact of back EMF on the instrument.
4. Sound discharge alarm and clear discharge indication reduce the operation mistakes.
5. Fast response.
6. Intelligent power management technology makes the instrument always operating at minimum power.
7. 65K true color liquid crystal with 320x240 ultra small pixel.
8. With perpetual calendar clock and power-down storage; 1000 sets of test data can be stored.
9. RS232 communication and USB interface for computer communication and USB data storage.

Technical Parameters

Product model	RDZR-20A	RDZR-40A
Measuring current	<20mA、1A、2.5A、5A、10A、20A	<20mA、2.5A、5A、10A、20A、40A
Measuring range, Accuracy:±(0.2%+2 digits)	100μΩ - 1Ω (20A)	50μΩ ～ 500mΩ (40A)
	500μΩ - 2Ω (10A)	100μΩ - 1Ω (20A)
	1mΩ - 4Ω (5A)	500μΩ - 2Ω (10A)
	2mΩ - 8Ω (2.5A)	1mΩ - 4Ω (5A)
	5mΩ - 20Ω (1A)	2mΩ - 8Ω (2.5A)
Measuring range, Accuracy: ±(0.5%+2 digits)	10Ω-20KΩ (<20mA)	10Ω-20KΩ (<20mA)
Minimum resolution	0.1μΩ	
Display	LED Display; The resistance shows 4 significant digits	
Data storage	1000 list	
Working environment	Environment temperature: 0℃ ～ 40℃	
	Relative humility: <90% RH, no condensation	
Power supply	AC 220V±10V, 50Hz±1 Hz (Safety tube 10A)	
Maximum power consumption	1000W	
Dimensions	400×225×350 (mm)	
Weight	Host 15.1KG; line box: 5.75KG	

RDBK- III TRANSFORMER LOAD AND NO LOAD TESTER

Product Characteristics

1. **Impedance Measurement:**
   Measures single-phase, three-phase, and zero-sequence impedance with neutral point connection.
2. **Automatic Calculation:**
   Calculates transformer impedance percentage and error with nameplate impedance.
3. **Enhanced Test Results:**
   Automatic conversion with frequency, temperature, and current corrections for improved data comparability.
4. **Dual Power Modes:**
   Operates with internal power supply or external single-phase voltage regulator.
5. **Wide Range, High Accuracy:**
   Wide measuring range for voltage and current with high accuracy.
6. **User-Friendly Touch Screen:**
   7.0-inch touch screen for easy operation.
7. **Efficient Data Management:**
   Built-in high-capacity non-volatile memory for 160 sets of data.
8. **Instant Printing:**
   Built-in high-speed micro thermal printer for quick measurement data output.
9. **Real-time Display:**
   Built-in high-precision clock for accurate time display.
10. **USB Convenience:**
    USB storage function available for easy data transfer.

Technical Parameters

Model. No	RDBK-III
Voltage Range	15V ~ 500V (PT extension), Accuracy: ±(0.2%rdg ±0.05%f.s)
Current Range	0.5A ~ 15A (internal), Accuracy: ±(0.2%rdg ±0.05%f.s)
	0.5A ~ 50A (external) (can CT extension), Accuracy: ±(0.2%rdg ±0.05%f.s)
Impedance Range	0 ~ 100%
Power Factor	0.02 < Cos φ < 0.1, Accuracy: ±(1.0%rdg ±0.05%f.s)
	Cos φ ≥0.1, Accuracy: ±(0.5%rdg±0.05%f.s)
Frequency Measurement	45 ~ 65Hz
Resolution	5 significant digits
Ambient Temperature	-10°C to 50°C
Ambient Humidity	≤85%RH, non-condensing
Operating Power Supply	AC220V ±10%

RDKC-2000 TRANSFORMER ON-LOAD TAP-CHANGER ANALYZER

Product Characteristics

1. Large output current, light weight.
2. Testing YN, Y, △ type transformer and directly displaying the resistance without conversion.
3. With winding or without winding measurement.
4. Waveform display automatically adjusts the resistance according to the sampled value, the time value amplitude.
5. With perfect protection circuit, reliable and strong.
6. 7-inch large LCD, easy on-site operation.
7. Built-in high-capacity lithium battery.
8. 500 sets of data can be saved inside automatically, and can be connected with U Disk.

Technical Parameters

Output current	Test range: 1 ～ 660V; 10V ～ 600V ± (0.2% rdg ± 0.05% fs)	
Measuring range	Transition resistance	0.3Ω~20Ω(1.0A); 5Ω~40Ω(0.5A); 20Ω~100Ω(0.2A)
	Transition time	0 ~ 320ms
Open circuit voltage	24V	
Measurement accuracy	Transition resistance	± (5% rdg ± 0.1Ω)
	Transition time	± (0.1% rdg ± 0.2ms)
Sampling rate	20kHz	
Ambient temperature	-10 ℃ ~ 50 ℃	
Ambient humidity	≤ 85% RH	
Power supply	AC 220V±10%,50 ± 1Hz	

RDRB-IV FREQUENCY SWEEPING RESPONSE ANALYZER

Product Characteristics

1. Different Characteristics of transformer windings are measured with frequency sweeping method.
2. Quick measuring (the measuring of a single winding is within 2 minutes).
3. High frequency accuracy, higher than 0.001%.
4. Digital frequency synthesis, with higher frequency stability.
5. 5000V voltage isolation fully protects the safety of the testing computer.
6. Able to load 9 curves at the same time and automatically calculate parameters of each curve and diagnose winding deformations to provide the reference diagnosis conclusion.
7. Powerful analysis software and hardware meet the international standards DL/T911-2016 and IEC60076-18.
8. Compatible with Windows 2000/Windows XP/Windows 7/windows 8/Windows10.
9. The software is highly intelligent, and after the parameters being set, all the measurement work can be completed by pressing only one key.
10. The software interface is concise and intuitive, with clear menus facilitating the operation.

Technical Parameters

Measuring speed	1 min - 2 minds for single-phase winding
Output voltage	Vpp-25V, adjusting automatically in test
Output impedance	50Ω
Input impedance	1MΩ (the response channel is built with 50Ω matching resistance)
Frequency sweep scope	10Hz-2MHz
Frequency accuracy	0.001%
Frequency sweep manner	Linear or logarithmic, frequency sweeping interval and number of sweeping points are freely settable
Curve display	Mag-freq. curve
Measuring dynamic range	-100dB~20dB
Power source	AC100-240V 50/60Hz

RDXC-3000A TRANSFORMER DEMAGNETIZATION TESTER

Product Characteristics

1. Applied to remove the remanence before the 35KV and above large power transformers are put into operation.
2. The advanced composite current degaussing method is adopted to reduce the current impact.
3. High degaussing efficiency, as for the three-phase transformer, only one phase needs elimilating.
4. Automatic demagnetization and manual demagnetization are both available.
5. The quantity of initial remanence and the remanence after demagnetization can be both detected and displayed before and after test.
6. The wiring is simple, and the demagnetization test can be carried out directly by using the test line of the DC resistance tester.
7. Digital current adjustment with high control accuracy.
8. 5-inch color touchscreen control makes it easy to operate.
9. The test results are automatically saved in the form of catalog, and the report can be printed directly and stored in the U disk.
10. The software is highly intelligent, and after the parameters being set, all the measurement work can be completed by pressing only one key.
11. The software interface is concise and intuitive, with clear menus facilitating the operation.
12. The embedded system is adopted to avoid the software poisoning.

Technical Parameters

Input type	Current method
Output voltage	vpp-40v, automatic adjustment during test
Output current	5A, 4A, 3A, 2A, 1A, optional
Remanence rate	0-100%
Demagnetization progress	0-100%
Minimum resolution	0.10%
Operating power	AC100V-240V ±10%
Power frequency	50±1Hz
Operating temperature	-10℃~50℃
Ambient humidity	≤85%RH

DUAL-CHANNEL DC RESISTANCE TESTER

Product Characteristics

1. The instrument has large output current and high voltage.
2. Dual-channel measurement, measuring two resistance values at the same time.
3. It has a complete protection circuit and strong reliability.
4. The horizontal structure is convenient for on-site operation of the transformer factory.
5. With audible discharge alarm and clear discharge indication to reduce misoperation.

Technical Parameters

Product model	RDZR-5AS	RDZR-10AS
High-voltage side output current	<15mA, 40mA, 200mA, 1A, 5A	<15mA, 40mA, 200mA, 1A, 5A, 10A
Low-voltage side output current	2A, 5A, 10A, 20A	2A, 5A, 10A, 20A
Test range	High voltage side	0.5mΩ ~ 0.8Ω (5A)
		1mΩ ~ 2Ω (5A)
		5mΩ ~ 10Ω (1A)
		100mΩ ~ 50Ω (200mA)
		1Ω ~ 250Ω (40mA)
		10Ω ~ 20kΩ (<15mA)
	Low voltage side	100μΩ ~ 500mΩ (20A)
		200μΩ ~ 1Ω (10A)
		1mΩ ~ 1.6Ω (5A)
		5mΩ ~ 4Ω (2A)
Accuracy	±(0.2%+2 digits)	
Resolution	0.1μΩ	
Working temperature	0 ~ 40℃	
Environmental humidity	≤90%RH, no condensation	
Power supply	AC220V±10%, 50Hz±1Hz	
Dimension	448*463*177(mm)	
NW	17.6kg	

RDTBT SERIES TRANSFORMER COMPREHENSIVE TEST BENCH

Product Characteristics

1. **Clear Display:**
   Large backlit LCD for easy operation.
2. **Versatile Testing:**
   Covers DC resistance, transformation ratio, and various transformer tests (10kV to 220kV, 10kVA to 10000kVA).
3. **Readout Options:**
   Choose digital or analog display with printouts for voltage, current, and test results.
4. **Precise Control:**
   Slow rise and drop function for accurate pressure adjustments.
5. **Smart Alerts:**
   Sound and light alarms for tester reminders.
6. **User-Friendly:**
   Convenient instructions and control buttons.
7. **Optimal Viewing:**
   Display and controls designed for easy viewing.
8. **Flexible Configuration:**
   Easily switch gear positions and test loops.
9. **Enhanced Safety :**
   Equipped with six types of protection for secure operation.

Technical Parameters

Model. No	RDTBT
Voltage	Measuring range 1V ~ 500V, Accuracy: 0.1
Current	Measuring range 100mA ~ 5A, Accuracy: 0.1
Power	U*I, Accuracy: 0.2
Working frequency	50Hz
Power factor	0.050 ~ 0.999, Accuracy: 0.2
Frequency	45 ~ 65Hz, Accuracy 0.1
Test voltage	Uab, Ubc, Uac
Test current	Ia, Ib, Ic
No-load current Io%	
No-load loss Po, load loss Pk	
Impedance voltage Uk, power factor PF	
Three-phase voltage average U, three-phase current average I	

CIRCUIT BREAKER (SWITCH) TEST INSTRUMENT

SERIES 5

RDGC-8A CIRCUIT BREAKER ANALYZER

Product Characteristics

1. It is suitable for all types of metal contact SF6 switch, GIS combined apparatus, vacuum switch, oil switch, post switch and contactor produced at home and abroad.
2. With the acceleration speed sensor, rotation speed sensor, linear stroke sensor and contact sensor, and the installation is easy and simple.
3. Trigger modes include internal trigger, external trigger, sensor trigger and manual trigger.
4. DC adjustable power supply can control the motor energy storage at any time without reversing the line after first line connection.
5. With large screen transparent wide temperature backlight LCD, electronic regulation of the contrast and perfect menu prompt operation.
6. The host can store 1000 groups of on-site opening and closing test results, and the real-time clock in the host is convenient to save the test date and time; the USB interface is used for data transfer and program upgrade.
7. Powerful data analysis function, and built-in quick micro printer to print all data and atlas.

Technical Parameters

Input power supply	220V±10%, 50Hz±10%
Atmospheric pressure	86 ~ 106kpa
Temperature	-10 ~ 45℃
Humidity	≤80%RH
Insulation resistance	> 2MΩ
Dielectric strength	1.5kV power supply chassis work frequency withstand voltage 1 minute, no flashover and arcing
Timing	Range: 64000.0ms; resolution: 0.1ms; error: ≤0.1% rdg ± 0.1ms
Speed measurement	Span: 20.00m / s; resolution: 0.01m /s; error: ≤1% rdg ±0.01m/s
Stroke measurement	Vacuum circuit breaker: span 50.0mm, resolution 0.1mm, error ≤ 1% rdg ±0.1mm
	SF6 circuit breaker: span 300.0mm, resolution 0.1mm, error ≤1% rdg±0.1mm
	Less oil circuit breaker: span 1000.0mm, resolution 0.1mm, error ≤1% rdg±0.1mm
Current measurement	40.00A，resolution range 0.01A
Output power supply	DC0 ~ 270V digital adjustable / 30A (resolution:1V)

RDHL-100A/200A LOOP RESISTANCE TESTER

Product Characteristics

1. Multiple protection functions such as back EMF impact, disconnection and power-off during the test, overheat of power supply and so on.
2. Intelligent power management technology is addopted to effectively save energy and reduce heating.
3. High output voltage and wide measuring range.
4. The test current comes from the high-precision large constant current power supply, which makes the test fast and accurate.
5. Using four-terminal wiring method to effectively elimilate the influence of test line resistance on the test results.
6. 7-inch high brightness color LCD touchscreen, clear display under strong light, full touch screen operation.
7. With its own calendar clock and power-off storage which can store 1000 groups of test data for reference at any time.
8. The instrument has Bluetooth communication, RS232 communication and USB interface for computer communication and USB data storage.

Technical Parameters

Product model	RDHL-100A	RDHL-200A
Test current	50A, 100A	50A, 100A, 150A, 200A
Range	0 ~ 100mΩ(50A)0 ~ 50mΩ (100A)	0 ~ 100mΩ (50A) 0 ~ 50mΩ(100A)
		0 ~ 25mΩ (150A) 0 ~ 20mΩ (200A)
Resolution	Minimum 0.1μΩ	
Accuracy	± (0.5%±2 digits)	
Power	1000W	
Working mode	Continuous measurement	
Working power supply	AC 220V ± 10%, 50 HZ	
Service temperature	0 ~ 40℃	
Relative humidity	< 90%RH, no condensation	

RDHL-100H/200H
LOOP RESISTANCE TESTER

Product Characteristics

1. The continous large output current from the latest power supply can effectively breakdown or puncture the oxide layer of the switches and then get precise results.
2. Strong anti-interference ability with the last number of test data stably showed in the LCD screen only with ±1 error even in strong interference situation.
3. Long service life is realized by all the precise resistances and military connectors used in the tester.
4. Convenience: Small size, light weight.

Technical Parameters

Product model	RDHL-100H	RDHL-200H
Measurement range	1~1999 μΩ	
Resolution	1μΩ	
Test current	DC 50A, DC 100A, two fixed outputs	DC 50A, DC 100A, DC 150A, DC 200A, four fixed outputs
Work mode	Continuous	
Measurement accuracy	0.5%±1digit	
Display	Three and a half LCD	
Power supply	AC220V±10%, 50Hz	
Work environment	Temperature -10℃ ~ 40℃, humidity ≤80 %RH	

RDZK-IV VACUUM
SWITCH VACUUM TESTER

Product Characteristics

1. Able to measure the vacuum degree of various types of vacuum switch interrupter quantitatively.
2. No need to dismantle the vacuum switch in field measurement.
3. The test results are accurate and reliable.
4. LCD screen, more simple and convenient operation.
5. Able to save, print and view the test data.
6. Light in weight and easy to carry.

Technical Parameters

Test object	Various types of vacuum switch tubes
Detection method	New excitation coil is used to measure the vacuum tube without disassembly
Scope of application	The instrument is a multi-purpose machine, which can measure various types of vacuum magnetic switch
Detection range	10^{-5} ~ 10^{-1} Pa
Measurement accuracy	10^{-5} ~ 10^{-4} Pa, 15%
	10^{-4} ~ 10^{-3} Pa, 15%
	10^{-3} ~ 10^{-2} Pa, 10%
	10^{-2} ~ 10^{-1} Pa, 10%
Magnetic field voltage	1700V
High-voltage of pulsed electric field	30KV
Opening distance of switch tube during vacuum test	Normal opening distance
Operating environment	- 20 ℃ ~ 40 ℃
Weight of the host	24 kg
Overall Dimensions	420 mm × 320 mm × 280 mm

RDCZ -II DISCONNECTOR CONTACT PRESSURE TESTER

Product Characteristics

1. Small size, light weight, portable and easy to operate.
2. Backlit LCD.
3. Built-in lithium battery.
4. Equipped with micro printer, which can print test report and atlas.

Technical Parameters

Working environment	Temperature: - 10 ~ 40 ℃
	Humidity: ≤80% RH
	Atmospheric pressure: 86 ~ 106kPa
Measurement range	≤ 1000N; error: ≤ 1% rdg ± 1N
Measurement diameter (finger opening distance)	20 mm ~ 90 mm (conventional)
	Note: less than 20mm, more than 900mm (customizable) plum blossom contact fixture (customizable)
Power supply	Internal lithium battery ≤ 20W
	power supply working time ≥ 6h
Charging mode	the special charger is connected to the lithium battery charging interface of the panel for charging
Sensor signal line length	10M
Insulation resistance	> 2m Ω
Dielectric strength	The power supply can withstand voltage of 1.5kV for one minute without flashover and electric arc.

RELAY TESTER/SECONDARY CIRCUIT TESTER

SERIES 6

RDJB-802M MICROCOMPUTER RELAY PROTECTION TESTER

Product Characteristics

1.Four phase voltage and three phase current can be flexibly combined to perform various tests.
2. The device can run independently, or be operated by an external laptop or desktop computer.
3. A new hi-fi linear power amplifier makes the waveform smooth and accurate from large current to small current.
4. A large number of advanced technologies, precision components and materials contribute the high performance of the mainframe.
5. Powerful software functions such as automatically completing all kinds of large and complex calibration work, testing and scaning protection setting, playback of fault, real-time store test data, display vector, online print report and so on.
6. An 110V and 220V independent adjustable DC power is designed to supply output.

Technical Parameters

AC current source	Phase current output (effective value)	0~30A/phase
	Output precision	0.2 grade
	Three phase parallel current output (effective value)	0~90A
	A Long-time phase current (effective value)	10A
	Maximum output power of phase current	300VA
	Maximum output power of 3 parallel current	800VA
	Maximum permitted work time of 3 parallel current	5s
	Frequency range (fundamental)	0~1000Hz
	Harmonic times	2~20
	Phase	0~360°
DC current source	Output current	0 ~ ±10A / phase
	Output precision	0.5 grade
AC voltage source	The virtual value of phase voltage output	0 ~ 120V
	Output precision	0.2 grade
	The virtual value of line voltage output	0 ~ 240V
	The output power of phase voltage/ line voltage	75VA / 100VA
	Frequency range (fundamental wave)	0 ~ 1000Hz
	Harmonic times	2 ~ 20
	Phase	0~360°
DC voltage source	The output amplitude of phase voltage	0 ~ ±160V
	Output precision	0.5 grade
	The output amplitude of line voltage	0 ~ ±320V
	The output power of phase voltage/ line voltage	90VA / 180VA
	The output power of phase voltage/ line voltage	Free contact: 1 ~ 20mA, 24V
Switching terminal	8 channels input	Electric potential contacts: "0": 0 ~ +6V; "1": +11V ~ +250V
		DC: 220V/0.2A; AC: 220V/0.5A
	4 channels output	DC: 220V/0.2A; AC: 220V/0.5A
Time measurement range	1ms ~ 9999s; Measurement accuracy: < 1ms	
Power	AC220V ± 10% ; 50Hz	

RDJB-1600M MICROCOMPUTER RELAY PROTECTION TESTER

Product Characteristics

1. Six phase voltage output and six phase current output can be flexibly combined.
2. The device can run independently, or be operated by an external laptop or desktop computer.
3. A new hi-fi linear power amplifier makes the waveform smooth and accurate from large current to small current.
4. A large number of advanced technologies, precision components and materials contribute the high performance of the mainframe, and the structure of professional design has the device small in size, light in weight.
5. Powerful software functions such as automatically completing all kinds of large and complex calibration work, testing and scaning protection setting, playback of fault, real-time store test data, display vector, online print report and so on.
6. An 110V and 220V independent adjustable DC power is designed to supply output.
7. The device with USB communication port can communicate with the computer and other external devices.
8. Perfect self-protection functions such as reasonable design of the heat dissipation structure, reliable and perfect hardware protection, power soft start function, the software of the fault self-diagnosis and the output latch function.

Technical Parameters

AC current source	Virtual value of 6 phase current output	0~30A/phase
	Output precision	0.2 grade
	Virtual value of 3 phase current output	0~60A/ phase
	Virtual value of 6 phase parallel current output	0~180A
	A Long-time phase current (effective value)	10A
	Maximum output power of phase current	450VA
	Maximum output power of 6 phase parallel current	1000VA
	Maximum permitted work time of 6 parallel current	10s
	Frequency range (fundamental wave)	0~1000Hz
	Harmonic times	2~20
	Phase	0~360°
DC current source	Output current	0 ~ ±10A / phase
	Output precision	0.5 grade
	The maximum load volatage output	20V
AC voltage source	The virtual value of phase voltage output	0 ~ 120V
	Output precision	0.2 grade
	The virtual value of line voltage output	0 ~ 240V
	The output power of phase voltage/ line voltage	80VA / 100VA
	Frequency range (fundamental wave)	0 ~ 1000Hz
	Harmonic times	2 ~ 20
	Phase	0~360°
DC voltage source	The output amplitude of phase voltage	0 ~ ±160V
	Output precision	0.5 grade
	The output amplitude of line voltage	0 ~ ±320V
	The output power of phase voltage/ line voltage	70VA / 140VA
Switching terminal	8 channels input	Free contact: 1 ~ 20mA, 24V
		Electric potential contacts:"0": 0 ~ +6V; "1": +11V ~ +250V
	4 channels output	DC: 220V/0.2A; AC: 220V/0.5A
Time measurement range	0.1ms ~ 9999s; Measurement accuracy: < 0.1ms	
Power	AC220V ± 10%; 50Hz	

RDJB-1600K MICROCOMPUTER RELAY PROTECTION TESTER

Product Characteristics

1. **Versatile Outputs:**
   6-phase voltage/current for flexible testing, ideal for transformers and power switches.
2. **User-Friendly Operation:**
   Embedded WINDOWS OS for standalone or laptop/desktop use, ensuring quick, stable performance.
3. **Premium Linear Amplifier:**
   Modular design for accurate waveforms across current ranges, minimal interference.
4. **Efficient DSP Control:**
   High-performance DSP control for fast, real-time testing, compact and lightweight.
5. **Robust Software:**
   Automated calibrations, fault replay, real-time data storage, USB communication.
6. **Independent DC Power:**
   Adjustable DC power output (110V/220V) for added flexibility.
7. **Comprehensive Interfaces:**
   USB port for seamless communication with computers and devices.
8. **Built-In Protection:**
   Rational heat dissipation, power soft start, software fault diagnosis, ensuring safety.

Technical Parameters

Model.No	RDJB-1600K
AC current source	1.The virtual value of each phase output when six phase current output: 0 ~ 30A; 2.Output precision: 0.2 grade 3.The virtual value of each phase output when three phase current output: 0 ~ 60A 4.The virtual value of six phase parallel current output: 0 ~ 180A 5.The allowed virtual value when the phase current work long time: 10A 6.The maximum output power of phase current: 300VA 7.The maximum output power when six phase parallel current output: 1000VA 8.The allowed working time when six phase parallel current maximum output: 10s 9.Frequency range (fundamental wave): 0 ~ 1000Hz 10.Harmonic order: 2 ~ 20 11.Phase: 0~360°
DC current source	1.Current output: 0 ~ ±10A / phase ; output precision: 0.5 grade 2.The maximum load volatage output: 20V
AC voltage source	1.The virtual value of phase voltage output: 0 ~ 120V 2.Output precision: 0.2 grade 3.The virtual value of line voltage output: 0 ~ 240V 4.The output power of phase voltage/ line voltage: 75VA / 100VA 5.Frequency range (fundamental wave): 0 ~ 1000Hz 6.Harmonic order: 2 ~ 20 7.Phase: 0~360°
DC voltage source	1.The output amplitude of phase voltage: 0 ~ ±160V ; output precision: 0.5 grade 2.The output amplitude of line voltage: 0 ~ ±320V 3.The output power of phase voltage/ line voltage: 70VA / 140VA

RDHG-E TRANSFORMER COMPREHENSIVE CHARACTERISTICS TESTER

Product Characteristics

1. **Comprehensive Testing:**
   Meets CT and PT requirements: excitation, ratio, polarity, resistance, burden, error, and phase displacement.
2. **Automated Analysis:**
   Provides CT and VT parameters automatically: knee point, error curve, ALF, FS, Ts, Kr, and inductance.
3. **Advanced Method:**
   Uses low-frequency testing for CT knee voltage up to 30kV.
4. **Standard Compliance:**
   Meets IEC60044-1 and IECC60044-6 standards; auto-selects based on transformer type and level.
5. **User-Friendly Interface:**
   Graphical LCD for easy operation.
6. **Efficient Data Storage:**
   Stores 1000 test data groups; easily transferable to PC via USB for analysis and reporting.
7. **Simplified Testing:**
   One-click operation for CT secondary resistance, excitation, ratio, and polarity.
8. **Built-in Printer :**
   Panel printer for instant on-site test report generation.
9. **Portable Design:**
   Lightweight and easy to carry for field testing.

Technical Parameters

Model. No		RDHG-E
output		0 ~ 180Vrms, 12Arms, 36A (peak value)
Voltage measurement accuracy		±0.1%
CT transformation ratio measurement	Range	1~10000
	accuracy	±0.2%
PT transformation ratio measurement	Range	1~10000
	accuracy	±0.2%
phase measurement	accuracy	±3min
	resolution	0.3min
Secondary winding resistance measurement	Range	0 ~ 300Ω
	accuracy	1%±1mΩ
AC load measurement	Range	0 ~ 300VA
	accuracy	1%±0.1VA
Input power supply voltage		AC220V±10%，50Hz
Work Environment		Temperature: - 10 ℃ ~ 50 ℃, humidity: ≤ 90%

CABLE AND LINE TESTING INSTRUMENT

SERIES 7

RDCD-II CABLE FAULT TESTING SYSTEM

1. RDCD-II/502 Cable Fault Pre-locator

Product characteristics

1. 12-inch industrial computer control and touch operation mode.
2. Windows operating system, a super cable management system, automatically generates test reports.
3. It has the functions of ranging and speed measurement.
4. Automatic continuous sampling, never missing any discharge waveform.
5. Low voltage pulse method, high voltage flashover method and multiple pulse method were used.
6. Massive test waveform storage function.
7. The measured fault point waveform and the full-length open circuit waveform of good phase can be displayed on the screen at the same time for the same screen comparison and superposition comparison.
8. Built-in li-polymer power supply can support continuously working for more than 4 hours after being fully charged. It can also work with external AC power supply.
9. Eight pulse transmission and fault reflection signals are automatically displayed, and the full-length waveform of cable open circuit is displayed at the same time.
10. The reflected signal sent by the pulse coupler is automatically displayed, and the full-length waveform of the cable open circuit is displayed at the same time.

Technical Parameters

Sampling rate	60MHz, 120MHz, 240MHz
Pulse amplitude	400Vpp
Pulse width	0.1uS and 2uS
Measuring distance	60km
Reading resolution	0.1m
Test accuracy	< 0.5m
The length of test cable	< 1km (short distance)
	< 3km (medium distance)
	> 3 km (long distance)
Impulse coupler withstand voltage	38kV DC

2. RDCD-II/535T Cable Test HV Signal Generator

Product characteristics

1. High voltage pulse output is uniform and controllable.
2. With double 1.5-level indicator display of current and voltage, it is intuitive.
3. High voltage measurement, real-time and accurate.
4. With zero start protection function, it is safe and reliable.
5. With three-gear voltage range and capacitor capacity switching function.
6. Unique high-voltage measurement design, in the stop state, it will automatically discharge the internal capacitance of the equipment.
7. Discharge time can be selected in two modes: timing mode and manual mode.
8. With DC withstand voltage function.
9. Install the internal high-precision test cable fault sampling waveform module.
10. Humanized handcart design, easy to move.

Technical Parameters

Impulse high voltage	0 ~ 32kV; 0 ~ 16kV; 0 ~ 8kV
High voltage division	Voltage accuracy: 1.5
Built-in capacitor	4μF/32kV; 16μF/16kV; 64μF/8kV
Discharge power	2048J
Impact time	Impact automatically for about 5 seconds
	Impact manually for any control time
Impact power	2kVA
Operating power supply	AC 220V±10%, 50Hz±2Hz
Environment	-20 ~ +50°C

3. RDCDII/503D Cable Fault Locator

Product characteristics

1. Acoustic-magnetic synchronous positioning technology is adopted to automatically calculate the acoustic-magnetic time difference and reduce the dependence on sound monitoring.
2. Background of noise reduction technology, effectively filter out the environmental interference noise and highlight the discharge sound at the fault location.
3. Combining the traditional acoustic measurement method with the advanced acoustic magnetic method.
4. The gain value and trigger value of acoustic and magnetic signals can be adjusted manually, which is more convenient for fixed point.
5. It has the function of route auxiliary indication, so as to avoid the offset of the route during fixed point.
6. Adjustable parameters, selecting appropriate filter parameters to suppress environmental noise.
7. 7-inch touch highlight LCD to ensure visibility in the sun.
8. Built-in large-capacity lithium-ion battery power supply, with fast charger.
9. Compact, portable and light in weight.

Technical Parameters

Sound channel	Bandwidth	Full pass: 100 Hz ~ 1500 Hz
		Low pass: 100 Hz ~ 400 Hz
		High pass: 150 Hz ~ 1500 Hz
		Band pass: 200 Hz ~ 600 Hz
	Signal gain	0 -7 adjustable
	Fixed point accuracy	0.1m
Magnetic field channel	0 -7 adjustable	
Background noise reduction mode	BNR	
The bar chart of sound intensity	0 ~ 100 sound trigger threshold can be adjusted	
The bar chart of electromagnetic intensity	0 ~ 100 magnetic field trigger threshold can be adjusted (with prompt)	
Acoustic magnetic time difference positioning mode	Waveform display; acoustic magnetic time difference display	
Path auxiliary test	the path direction can be indicated by icons on the left and right sides of the cable	
Power supply	Built-in lithium-ion battery pack, voltage 8.4V, capacity 4.4Ah	
	Use time: continuous use time > 8 hours	
	Charger: input AC 220v±10%, 50Hz; Nominal output 8.4V, 1A	
	Charging time: < 6 hours.	
Display mode	7-inch color LCD touchscreen with 1024*600 resolution	
Size	Host: 250mm×160mm×160mm	
Weight	Host: 0.6kg; sensor: 1.4kg	
Operating environment	Temperature: -25℃-40℃; humidity: 5-90% RH; altitude: < 4500m	

4. RDCD-II/507 Pipeline Detector

Product characteristics

1. Compass and direction display: visually display pipeline position and left-right direction.
2. Tracking error prompt: Measure the current direction, and eliminate the interference of adjacent lines.
3. Real-time depth and current measurement.
4. All digital processing, stable and reliable.
5. Compact, portable and light in weight.

Technical parameters of the transmitter

Operating frequency	Low frequency, intermediate frequency, high frequency, radio frequency 50Hz
Antenna mode	Wave trough method (vertical coil) and wave crest method (horizontal coil)
Sound indication	FM tone that varies with signal strength
Current indication	The effective current value of the cable under test (unit:mA)
Operating temperature	-10℃ ~ +55℃
Battery	Rechargeable battery
Electric quantity indication	Graphic display
Signal strength	Ladder diagram, digital range 0 ~ 999
Gain control	Manual adjustment with a dynamic range of 100db.
Detection depth	The maximum detection is not less than 10m.
Maximum detection distance	The cable with good insulation can reach 15km in the direct connection method
Depth measurement	ress the depath key to display three digits, and the maximum measurable depth reach 2.5 meters
Accuracy *	low frequency: (1~5)%≤2.5m; Radio frequency:(5~12)%≤2.5m
* Depends on the site environment, the shape of the non-concentric line, the number of adjacent pipelines and the return current of the soil.	

Technical parameters of the receiver

Operating frequency	Low frequency, intermediate frequency, high frequency and radio frequency
Working modes	Direct connection method, coupling method and induction method
Load	5 Ω ~ 3,000 Ω
Impedance display	5 digits
Over current	Automatic protection
Output	Low gear, middle gear and high gear
Battery	Rechargeable battery
Operating temperature	-10℃ ~ 55℃

RDCD-521W CABLE OUTER SHEATH FAULT TESTER

Product Characteristics

1. Output voltage adjustable
2. No blind spots within the testing range
3. High accuracy and stability
4. High sensitivity amplifiers and galvanometers to indicate balance
5. Zero position protection

Technical Parameters

Model.No	RDCD-521W
Input voltage	AC 220V ± 10%, 50Hz ± 1Hz
No load voltage	7.5kV or 10kV (optional)
Short circuit current	40mA
Measurement accuracy	± (0.2% · L ± 1) meters

RDCD-523W CABLE SHEATH FAULT LOCATOR

Product Characteristics

1.Adjustable output voltage
2.Adjustable frequency
3.Overcurrent protection
4.Switch effortlessly from pinpointing faults to high voltage withstand mode with just one key.
5.No blind zones in the test range
6.Adjustable receiver sensitivity
7.Adjustable signal frequency
8.Zero protection

Technical Parameters

Model. No	RDCD-523W
Input voltage	200 ~ 240V ~ 50Hz
Output voltage	0 ~ 10kV adjustable (square wave)
Output current	Max 200mA
Output capacity	2kVA
Frequency regulation	0.4Hz ~ 1Hz (adjustable)

RDTL-501A VARIABLE FREQUENCY TRANSMISSION LINE PARAMETER TESTER

Product Characteristics

1. **User-Friendly Interface:**
   7-inch touchscreen for easy operation and clear menu display.
2. **Portable and Versatile:**
   Compact size, easy to carry, suitable for on-site use.
3. **Flexible Power Options:**
   Connects to 220V mains or single-phase generator (power ≥ 3kW).
4. **Robust Anti-Induction:**
   Unique circuit withstands high induction voltage (up to 10,000 volts).
5. **Strong Anti-Interference:**
   Variable frequency power supply minimizes interference for precise measurements.
6. **Fast Signal Processing:**
   Professional digital processor ensures accurate and efficient operation.
7. **Simplified Connection:**
   Measures impedance and capacitance with a single lead, enhancing safety.
8. **Efficient Data Management:**
   Calendar chip and large-capacity memory for easy test result storage.
9. **Convenient Data Export:**
   USB export for viewing, managing, and creating reports on any PC.
10. **Grounding Detection:**
    Ensures proper grounding, automatically halting unsafe operations for user protection.

Technical Parameters

Model. No	RDTL-501A、RDTL-501B	
Utilization conditions	-20℃ ~ 50℃	RH < 80%
Anti-interference principle	Variable frequency method	
Power supply	AC220V±10%	Generator ⩾ 3kW
Power output	Max.output voltage	AC250V
	Voltage accuracy	0.5%
	Max.output current	8A
	Current accuracy	0.5%
	Output frequency	50Hz, 60Hz, 47.5Hz\52.5Hz, 45.0Hz\55.0Hz,57.5Hz\62.5Hz, 55.0Hz\65.0Hz
	Power	6 kVA
Measurement range	Capacitance	0.01 ~ 30μF
	Impedance	0.01 ~ 400Ω
	Impedance angle	-180° ~ +180°
	Induced voltage/Induced current	0 ~ 30kV/0 ~ 50A
Measurement resolution	Capacitance	0.0001μF
	Impedance	0.001Ω
	Impedance angle	0.001°
Measurement accuracy	Capacitance: ⩾ 1μF, ±1%rdg ±0.01μF; <1μF, ±2% rdg ±0.01μF;	
	Impedance: ⩾ 1Ω, ±1% rdg ±0.01Ω; <1Ω, ±2% rdg ±0.01Ω;	
	Impedance angle: ±0.2°(voltage >1.0V) ; ±0.3°(voltage:0.2V ~ 1.0V);	
Ability to resist induced current	Ia+Ib+Ic<60A, accuracy: 2%	
Ability to resist induced voltage	Ua<30kV, Ub<30kV, Uc<30kV; accuracy: 2%	
Memory	100 groups, support U disk data storage	

TAG8000 WIRELESS HIGH VOLTAGE PHASE DETECTOR

Product Characteristics

1. Wireless Phase Detection:

Accurate up to 200m, offering convenient operation.

2. Voice Prompt:

Audible cues for signal status and phase alignment.

3. Color LCD Display:

3.5-inch screen shows phase details and dynamic vector diagram.

4. Voltage Class Display:

Indicates electricity inspection function and voltage class.

5. Data Storage and Upload:

Stores 200 data sets, with USB for easy computer upload and printing.

Technical Parameters

Power Supply	Host; 3.7V 2600mAh,rechargeable lithium battery; Detector: 3.7V 600mAh , rechargeable lithium battery
Phase Detection Method	1. Contact mode phase detecting: circuit line below 35kV 2. Non-Contact mode phase detecting: when the line voltage exceeds 35kV, must adopt non-contact mode to testing, the probe gradually approach the conductor to phase detecting
Phase Detection Voltage	AC 10V ~ 500kV
phase detection distance	260m
Voice Prompt	"X signal is normal, Y signal is normal, same phase, out phase"
Phase Qualitative	Same phase: - 20°~ 20°; Out of phase: 100°~140° and 220°~ 260°
Phase Range	0°~ 360°; Accuracy; ≤±10°; Resolution : 1°
Frequency Range	45.0Hz ~ 65.0Hz; Accuracy; ≤±2Hz; Resolution ; 0.1Hz
Electricity Test Indication	"du--du--du" buzzing sound
Voltage Display	Display voltage class
Transmitting Frequency	433MHz
Phase Indication	Vector diagram and digital display at the same time
Display rate	2 times/second
Data Storage	200 groups(Power down or replace the battery will not lose data)
Automatic Shutdown	15 minutes after boot up, the meter shuts down automatically without any operation
Rated Current	Detector; 30mA max; Host; 150mA max
LCD Size	3.5 inch color screen; Display area; 71mm×53mm
Instrument Weight	Host; 887g(include battery); Package and insulation ; about 7.84kg (include insulation rod and accessories)
Instrument Dimension	Host195mm×100mm×45mm; Detector :130mm×65mm×45mm
Insulation Rod Length	Max Diameter:Φ45mm; Length; contraction state 1000mm; stretched state:4500mm
Insulation Test	The insulation rod stretched to both ends; AC 220kV/rms; host, detector AC3700V/rms (between exposed metal and plastic shell)

LIGHTNING ARRESTER AND INSULATOR TESTER

SERIES 8

RDYZ-III HANDHELD ARRESTER LIGHTNING COUNTER TESTER

Product Characteristics

1. Efficient Test Principle:

Adopts fast capacitor charging and discharging method.

2. Easy Operation:

One-key automation with adjustable test intervals (3s to 8s).

3. Versatile Range:

Adjustable high voltage output (200V to 1600V in 200V steps) for various counter action voltages.

4. Safe and Reliable:

ABS plastic shell, metal-free high-voltage exposure, ensuring operator safety.

5. Multiple Test Cycles:

More than 2000 operations on a single charge.

6. Self-Discharge Function:

Automatically releases high voltage within two minutes if not in use.

7. Convenient Testing:

Includes test lines and pull rod line for diverse testing methods.

Technical Parameters

Model. No	RDYZ-III
Output voltage	200 ~ 1600V adjustable
Capacitance	10μF
Discharge current	more than 100A
Power supply mode	rechargeable lithium battery

RDYZ-302 METAL OXIDE SURGE ARRESTER ANALYZER

Product Characteristics

1. Fully automatically measuring three-phase data with one wiring at the same time, or single-phase data separately.
2. Accurately analyzing the content of fundamental wave and 3rd, 5th and 7th harmonics.
3. Anti-interference function to ensure accurate and reliable data.
4. Voltage phase selection function.
5. Angle compensation function (when the voltage signal is 220V).
6. 8.0-inch color LCD touchscreen can display three-phase data and waveform at the same time.
7. AC / DC dual-purpose, built-in high-capacity lithium-ion battery, one charge can work continuously for about 6 hours.
8. Three measurment methods: wired, wireless and no Pt.
9. RS232 serial communication; USB interface.
10. Wireless data transmission eliminates the tedious work of long-distance wiring of voltage measurement lines.
11. Humanized menu design, simple operation, and the switching function of Chinese and English interface.
12. 200 groups of test data can be stored inside and the data can be exported by USB flash disk.
13. Small in size, light in weight, easy to carry, suitable for field operation.

Technical Parameters

Measuring range	0 ~ 50 mA	
Measurement accuracy	Wired mode	Fundamental: ± (2% rdg + 2 digits)
		Harmonic: ± (10% rdg+ 5 digits)
	Wireless mode	Fundamental: ± (5% rdg + 5 digits)
Resolution		Harmonic: ± (10% rdg + 10 digits)
Measurement parameters	Full current waveform and fundamental peak value of leakage current	
	The fundamental peak value and the 3rd, 5th and 7th peak value of the resistive component of leakage current	
	Capacitive current fundamental peak value, full voltage, full current phase angle difference	
	Effective value of voltage	
	Power consumption of lightning arrester	
Voltage signal input	30 ~ 250V	
Maximum wireless transmission distance	400m (sight distance)	
Ambient temperature	- 10 ℃ ~ 40 ℃	
Ambient humidity	< 90% RH	

RDYZ-IV ARRESTER COUNTER TESTER

Product Characteristics

1. Check the number of lightning strokes as well as the leakage current (maximum value).
2. Small in size, light in weight, easy to carry.

Technical Parameters

Output voltage	DC600V ± 5%
Output current	AC 1mA - 5mA (maximum, load less than 500 Ω) ± 3%
Interval time	≥ 30s
Power supply	AC220 V ± 10%; 50 Hz ± 2%
Impulse current	≥ 100A (8/20μs)
Dimensions	260mm × 190mm × 175mm
Weight	4kg

SF_6 TEST INSTRUMENT

SERIES 9

RDCDF-706

SF_6 GAS PURITY TESTER

Product Characteristics

1.5.0" TFT touch screen design
2.32-bit ARM MCU
3.Separately designed air way and circuit
4.Large capacity storage function
5.Digital display of battery electric quantity
6.Good repeatability, high response speed
7.Automatic calibration of gradient
8.Color LCD display
9.Advanced probe protection function
10.Anti-pollution, anti-disturbance
11.High sensitivity, good stability
12.Small, beautiful, easy to carry

Technical Parameters

Model.No	RDCDF-706
Measuring range	0 to 100%
Accuracy	purity: ± 1%
Resolution	purity: 0.1%
Repeatability	purity: ± 0.5%
Pressure range	0 ~ 1MPa
Gas flow rate	0.3 ~ 0.4L / min
Measuring time	5 minutes
Operating voltage	110 ~ 220VAC, AC and DC
Storage temperature rating	-25 ~ + 70 ℃
Operating environment	temperature: -25 ~ + 60 ℃
Power supply	lithium battery, AC and DC dual-use, automatic switching, overcharge and over discharge protection lithium battery, AC and DC dual-use, automatic switching, overcharge and over-discharge protection

RDFJ-708A SF_6 DECOMPOSITION PRODUCTS

Product Characteristics

1. Long life detection components.
2. Direct measurement without colorimetric tube or sensor.
3. High accuracy and good repeatability.
4. Built-in pressure regulator and electronic mass flow meter.
5. Large color LCD.
6. Lithium battery power supply, AC and DC dual-use.
7. The instrument comes with cleaning function.

Technical Parameters

Name	Technical parameters
Measuring range	SO_2: 0 ～ 100μL/L
	H_2S: 0 ～ 100μL/L
	CO: 0 ～ 1000μL/L
Measuring accuracy	SO_2: when the measured value ≤ 10μL/L, the error±0.2μL/L
	when the measured value≥10μL/L, the error≤±3%
	H_2S: when the measured value≤10μL/L, the error±0.2μL/L
	when the measured value≥10μL/L, the error≤±3%
	CO: when the measured value≤50μL/L, the error±0.5μL/L
	when the measured value≥50μL/L, the error≤±4%
Repeatablity	SO_2: when the measured value≤10μL/L, the repeatablity≤±0.1
	when the measured value≥10μL/L,the repeatablity≤±2%
	H_2S: when the measured value≤10μL/L,the repeatablity≤±0.1
	when the measured value≥10μL/L,the repeatablity≤±2%
	CO: when the measured value≤50μL/L,the repeatablity±0.3
	when the measured value≥50μL/L,the repeatablity≤±3%
Resolution	0.1μL/L
Sampling flow rate	0.2L/min
Measuring time	≤180s
Working environment	Temperature-10℃ ～ +50℃; humidity 0 ～ 90%RH
Supply power	Lithium battery power supply, AC and DC dual-use, automatic switching, overcharge and over discharge protection function
Dimensions	330(mm)×220(mm)×150(mm)
Weight	4.6kg

RDLD-705
CHILLED MIRROR DEW POINT TESTER

Product Characteristics

1. It can automatically measure the temperature value of micro water dew point (or frost point) in SF6 and other gases;
2. Continuous measurement function.
3. It has the function of converting measurement data to standard value at 20 °C.
4. It has the function of heating and cleaning the mirror surface.
5. It has the function of automatically saving the measurement results and exporting the USB flash disk, and can query the history.
6. Equipped with large screen touch screen, easy to operate and intuitive reading.
7. Equipped with large capacity lithium battery, the equipment can work normally and continuously without external power supply.

Technical Parameters

No.	Items	Parameters
1	Dew point range	-60℃ ～ +20℃
2	Dew point accuracy	±0.3℃
3	Resolution	Dew Point：0.1℃
4	Display Units	℃、ppm
5	Refrigeration mode	Stirling refrigerator
6	measuring principle	Chilled mirror
7	pressure measurement	0 ～ 1.0MPa
8	flow measurement	500±50ml/min
9	work environment	Temperature：-20 ～ +40℃，Humility：0 ～ 90%RH
10	Working power supply	Lithium battery power supply, AC/DC dual-use, automatic switching, overcharge and over discharge protection function

RDZH-709A
SF_6 COMPREHENSIVE TESTER

Product Characteristics

1. Large capacity storage; battery power prompt.
2. Large color LCD touchscreen, intuitive curve display.
3. Advanced probe protection function; anti-pollution and interference.
4. High sensitivity and stability; good repeatability and fast response.
5. Small and beautiful size, easy to carry.
6. Automatic conversion of micro water value to 20 ℃ standard micro water value.

Technical Parameters

1. Dew point detection module

Dew point range	-80℃ ～ +20℃
Measurement accuracy	±0.5℃
Micro water range	0.05 ～ 23100 μL/L
Measurement response time （+20℃）	-80℃ →20℃ 5s(63%)，45s(90%)
	20℃→-80℃ 10s(63%)，240s(90%)
Resolution	Dew point: 0.1℃
	Micro water：0.1ppm （100ppm ～ 1000ppm）
	0.01ppm (10ppm ～ 100ppm)
Repeatability	±0.2℃

2. Purity detection module

Measurement range	0 ～ 99.99%
Measurement accuracy	±0.2%
Repeatability	±0.1%
Resolution	0.01%

3.Decomposition product detection module

Measurement range	SO_2：0 ～ 100μL/L
	H_2S：0 ～ 100μL/L
	CO: 0 ～ 1000μL/L
Repeatability	SO_2: when the measured value ≤ 10μL/L, the error±0.2μL/L
	when the measured value≥10μL/L, the error≤±3%
	H_2S: when the measured value≤10μL/L, the error±0.2μL/L
	when the measured value≥10μL/L, the error≤±3%
	CO: when the measured value≤50μL/L, the error±0.5μL/L
	when the measured value≥50μL/L, the error≤±4%
	SO_2：when the measured value≤10μL/L, the repeatablity≤±0.1
	when the measured value≥10μL/L,the repeatablity≤±2%
	H_2S：when the measured value≤10μL/L,the repeatablity≤±0.1
	when the measured value≥10μL/L,the repeatablity≤±2%
	CO: when the measured value≤50μL/L,the repeatablity±0.3
Resolution	when the measured value≥50μL/L,the repeatablity≤±3%
	0.1μL/L

RDWG-710
GAS LEAK DETECTOR

Product Characteristics

1. Dual display of host handset.
2. Battery power prompt.
3. Lithium battery, AC / DC dual-purpose, automatic switching, overcharge and over discharge protection function.
4. Large color LCD touchscreen makes the operation simple and easy.
5. Good repeatability and fast response.
6. Advanced probe protection function.
7. Anti-pollution and interference.
8. High sensitivity and stability.
9. Small and beautiful size, easy to carry.

Technical Parameters

Measurement range	0-100 μL / L; accuracy ± 0.1 μL / L
Resolution	0.01ppm; repeatability ± 0.06ppm
Probe protection	Stainless steel sintered filter screen
Working voltage	110 ~ 220VAC; both AC and DC
Storage temperature grade	- 40 ~ + 70 ℃
Operating environment temperature	- 35 ~ + 60 ℃
Pressure	0 ~ 20bar
Sample gas flow rate	300-900ml/min under ventilation (generally 600ml/min)
Indication method	Indicator gauge and sound light signal

RDMJ-711
SF_6 DENSITY RELAY TESTER

Product Characteristics

1. A high-speed single-chip microcomputer is adopted to realize the high degree of automation, repeatability and reliability.
2. Relative and absolute pressure relays can be both tested.
3. 5.7-inch true color screen LCD facilitates the operation.
4. Calibrating the SF6 density relay under the automatic acquisition temperature.
5. 40 groups of data can be stored inside and with power-off data protection function.
6. The test data can be uploaded from USB to PC, and the special test data table can be generated automatically.
7. Calibrating the normal temperature pressure gauge and density gauge, and printing the test results in report form.
8. The instrument pipeline adopts quick connector, which is convenient for connection.
9. The internal clock can be corrected online.
10. The calibration function to ensure the calibration accuracy of the instrument.
11. With the high-precision pressure sensor and world advanced pressure control elements.
12. Equipped with a variety of switch filter joints, easy to operate.
13. When the contact is not electrified, DC24V power supply is provided internally to perform the test.

Technical Parameters

Measurement mode	Automatic measurement
Working power supply	AC220V ± 10%; 50Hz / built-in battery
Measurement accuracy	Level 0.2
Display mode	5.7-inch real color LCD
Measurement range	0~0.9MPa
Pressure display resolution	0.0001 MPa
Measurement pressure type	Absolute pressure and relative pressure
Measuring contact voltage	DC24V
Temperature acquisition mode	Automatic
Use temperature of the instrument	- 30-60 ℃ (Optimum temperature is 5-50 ℃)
Storage capacity	40 groups
Communication interface	USB
Inputmode	Touch
Printing mode	Needle printing
Temperature range	- 50 ℃ ~ 125 ℃; resolution: 0.1 ℃

RDWG-III
SF_6 GAS LEAK DETECTOR

Product Characteristics

1. SF_6 gas sensor is adopted to ensure the measurement accuracy.
2. Built-in gas extraction pump and pump suction sampling mode, fast response.
3. External replaceable integrated dust filter.
4. External water vapor filter can be used for occasions with high humidity;
5. Font and background color can be set for different light occasions to make the display legible.
6. The change of gas is showed in a curve.
7. 20000 records can be stored inside, and the storage capacity also can be customized.
8. With the high-capacity rechargeable polymer battery and USB charging interface.
9. Audible and visual alarm, fault alarm and other alarm functions.
10. Two display modes can be switched: large font display of gas concentration and real-time curve of gas concentration change.

Technical Parameters

Detection principle	Infrared principle
Measurement range	0 ~ 1000ppm
Resolution	1ppm
Sampling method	Pump suction, built-in air pump, flow rate is about 500ml / min
Display mode	2.31 inch HD color screen, digital display
Detection accuracy	≤± 3% fs
Linearity	≤± 1%
Repeatability	≤± 1%
Alarm mode	Sound, light and vibration alarm
Response time	5 seconds, T90 ≤ 30 seconds
Recovery time	≤ 30 seconds
Power supply	DC3.6V, 4500mA rechargeable polymer battery
Operating environment	Temperature -20~50 ℃;
	Relative humidity ≤90%RH
Data storage	20,000 data record storage capacity for viewing, deleting, or exporting data
Interface	USB
Protection level	IP65

RDWG-L33
SF_6 OPTICAL GAS IMAGING CAMERA

Product Characteristics

1. High sensitivity QWIP ensures high precision, stability and reliability of various environmental tests.
2. Passive infrared imaging technology is adopted to make the leakage point found remotely and accurately without power failure.
3. Equipped with 5 megapixel visible camera, high-power dual flash, coexistence of infrared and visible image data, and efficient identification of historical fault location.
4. With both rotatable 5.7-inch color digital LCD screen (available in sunlight) and built-in HD OLED Image Finder.
5. Small in size, light in weight, simple and easy to operate by a single person on site.
6. 2000 groups of data can be stored inside and read, consulted, saved, reported and printed through the data software.

Technical Parameters

Detector	Detector type	QWIP	Temperature measuring function	Temp range	-20℃ ~ +350℃
	Spectral range	10.1-11 μm		Accuracy	±2℃ or ±2%
	Image resolution	640*512		Measurement functions	Multiple measurement spots & Regions of Interest , hot/cold spot detection, isotherms, profiles, differences
	Detector Pitch	15μm			
	NETD	<0.015℃@25℃		Emissivity	1 ~100
	Frame rate	50/60Hz		Ambient temperature	Self-adaption
Infared len	Field of view/minimum focus distance	15.7 °*12.6°/1.5m	Interface Parameter	Power interface	DC +12V±10% 3A
	Focusing mechanism	Manual		data interface	USB 2.0
	Spatial resolution	0.43 mrad		Storage	MMC card, <32GB
Vision	Resolution	5 million pixels, CMOS		Video output interface	HDMI
	Focusing mechanism	Automatic		Position system	GPS
	Fill light	LED fill lamp	Power System	Battery type	44Wh Rechargeable Li-ion battery
Laser	Laser pointer	Red, laser class: 2		Battery working	> 2 hours
Image	Viewfinder	0.6"color, 800*600		Power supply	DC +12 V/ 3A
	LCD	5.7" sunlight visible display, 640*480	Environment	Operating temperature	-20℃~ +50℃
Setup	Image enhancement	DDE		Storing temperature	-40℃~ +80℃
	Digital zoom	x1/x2/x4		Protection class	IP54
	Color palettes	4 color palettes, image adjustment (auto/manual)		Humidity	10%~95%RH, no condensation
	Gas modes	High Sensitivity Mode(1-3)	Physical Characteristics	Weight	About 3kg
	Electricity detection	Real time power display		Size	329.5 mm *177.3 mm *205.8mm
	OSD	Date / time, language, temperature unit			

COROTEK-V200 ULTRAVIOLET CAMERA FOR DETECTING HIGH VOLTAGE DISCHARGE

Product Characteristics

1. Light and easy to carry.
2. Simple to use.
3. The maximum corona occurrence is displayed in the detection, and the abnormal degree of electric equipment can be judged from this.
4. In case of corona, all conditions can be recorded or replayed in real time.
5. It can be used for up to five hours at a time.
6. Unique technology, which can effectively extend the life of the camera.

Technical Parameters

FOV	
FOV	8°
FOV(HXV)@1xZoom	H:6.4°-4.8°
Camera focus and working distance	
Visible focus	Auto
UV focus type	Auto
Vorking distance	0.5m
Camera sensivity	
Vayelength range	185-260nm
Min. discharge	6.8 pc@10m
Illumination	0.4 LUX
Camera image formation	
Resolution	320x240
Image modes	VIS.UV on VIS
Camera display	
LCD	3.5"LCD
Display resolution	320x 240
Image and data storage	
Storage	SD.4G (Max 32GB)
Storage format	JPG, ASF
Recording image &Video)	YES
Image resolution	1 (single pixel)
Video resolution	736x576
GPS	N
Environmental sensor	N
Camera Physical Specs	
Size	180x125x111
Battery	Li-ion battery
Use Time	5 hs
Temperature	-15~55℃

RDWS-142 SF_6 INTELLIGENT MICRO WATER TESTER

Product Characteristics

1. Portable design: the instrument is lighter, easy to carry and use.
2. Automatically calibrating the zero point and eliminating the system error caused by zero point and drift, to ensure the accuracy of each measurement and avoid the tedious annual calibration.
3. No need to preheat after startup, and reaching dew point saturation state very quickly.
4. Fast gas saving: the gas consumption is only about 2L (101.2kpa) during the determination.
5. The self-locking connector imported from Germany is safe and reliable without air leakage.
6. Up to 50 groups of test data can be stored inside.
7. LCD screen directly and clearly displays dew point, micro water (PPM), ambient temperature, humidity, time and date, battery power, etc.
8. RS232 interface can be connected with serial printer for data printing.
9. Built-in 4 AH rechargeable lithium battery, once sufficient, working continuously for 5 hours.

Technical Parameters

Dew point	Measuring range	-50 ℃ ~ +60 ℃
	Measurement accuracy	± 2℃
	Response time (+20℃)	63% in 45 seconds; 90% in 90 seconds
Ambient temperature	-40℃ ~+ 60℃	
Ambient humidity	0 ~ 100% RH	
Power supply	AC 220V	
	Built-in rechargeable battery	
Battery performance	Charging time more than 10 hours, can be used for 5 hours	
Weight	3 kg	
Size	250 mm × 100 mm× 300mm	
Working temperature	-40℃ ~+ 80℃	

RDQC-70/150

SF_6 VACUUM CHARGING DEVICE

Product Characteristics

1. Electronic vacuum gauge.
2. Equipped with all kinds of imported and domestic SF6 Electrical equipment connection joints.
3. A variety of protection functions, effectively ensure the safe operation of the vacuum pump.
4. It is easy to maintain. All the devices are made of high performance components, which can be used for a long time without maintenance.

Technical Parameters

Product model		RDQC-70	RDQC-150
Front pump	Pumping speed	15 L/s	25 L/s
	Final vacuum	10 Pa	10Pa
	Power	1.5 kW	3.7 kW
Roots vacuum pump	Pumping speed	70 L/s	150 L/s
	Final vacuum	≤10 Pa	≤10Pa
	Power	0.75 kW	2.2 kW
Operating temperature		-10℃ ~ 40℃	-10℃ ~ 40℃
Power supply		TN-S, AC380V, 50Hz	TN-S, AC380V, 50Hz
Total power		≤3 kW	≤6.1kW
Noise		≤60 dB(A)	≤60 dB(A)

RDQH -60/200

SF_6 GAS RECOVERY AND PURIFICATION

Product Characteristics

1. The built-in filtration and absorption system can absorb impurities, water, decomposition products and oil in SF6 gas.
2. Integrated design and small size make it easy to move and use.
3. High efficiency filter maintenance free system, greatly ensuring the quality of SF6 gas recovery.
4. The built-in phase sequence protector can avoid the worry that the host will reverse due to phase sequence error at any time.
5. All electrical systems are of high quality.
6. High quality casters will greatly protect the ground paint and reduce the labor required for pushing.
7. The whole machine is air-cooled without external water source.
8. The built-in temperature protection system can work normally even at - 20°C.
9. The built-in drying and heating system can ensure that the desiccant can be activated and regenerated by equipment heating after saturation, so the desiccant does not need to be replaced.
10. All ball valves are sealed elements with automatic compensation performance.
11. It has built-in electromagnetic valve power-off protection function, to prevent vacuum pump power-off or motor seizing up oil return.

Technical Parameters

Product model	RDQH-60/200
Power AC	380V (phase sequence automatic conversion), 50Hz
Rated maximum gas storage pressure (20 ℃)	≤4 MPa
Device vacuum maintenance	When the pressure is maintained at 133 Pa for 24 hours, the vacuum value rises < 400 Pa
SF_6 compressor	Maneurop
Vacuum pump	Direct coupled pump
Recovery device adapts to inlet initial pressure (20 ℃)	0~1.0 Mpa
Final recovery pressure of electrical equipment (20 ℃)	≤50 kPa
Gas oil control after recovery	Domestic oil content < 10 μg/g
Annual air leakage rate of unit	< 1 %
Continuous trouble free operation time of the device	≥1000 h
Accumulated trouble free operation time	≥5000 h
Noise level	<75 dB
Theoretical storage capacity	200 kg
Refrigeration liquefaction compressor	Maneurop
Gas moisture after recovery	60 PPM/V
Gas oil after recovery	10 PPM/V
Dry filtration method	Vacuum heating activation regeneration
Initial pressure of inflation	≤ 133 Pa
Inflation final pressure	0.8 Mpa
Gasification mode	Automatic temperature control of electric heating
Vehicle type	Hand push mobile
Cooling mode	Air cooling

RDP-6000

SF6 LEAKAGE MONITORING ALARM

Product Characteristics

1. Automatically start the fan exhaust function when there is SF_6 overflow or O_2 leakage alarm.
2. O_2 content detection function; automatic alarm and automatic exhaust in case of oxygen deficiency.
3. Large LCD dynamic Chinese display with automatic screen protection function; friendly interface and fast refresh speed.
4. Fan starts automatically when the content of SF_6 or O_2 exceeds the critical point.
5. Low SF_6 gas detection alarm error < 1%; oxygen alarm error < 0.5%.
6. Able to start the forced exhaust function when alarming.
7. Relevant historical data storage and retrieval functions.
8. Temperature and humidity detection, alarm and display.
9. Five large-capacity alarm contact outputs; voice prompt alarm function.

Technical Parameters

Alarm point of SF_6 concentration exceeding limit	1000ppm, accuracy < ±5%
O_2 concentration detection range	0-25%, oxygen deficiency alarm point 18%, accuracy <± 0.5%
Temperature display range	-20 ~+99℃, accuracy < ±0.5%
Humidity display range	0 ~ 99% RH, accuracy < ±3%
Input power supply	AC 220V±20%
Alarm output contact power	AC 220/5A
Fan output contact	380V/15A (three-phase) or 220V/15A
Fan startup	Automatical (when O2 content is ≤19.6% or SF6 gas concentration more than 1000ppm)
	The fan also can be controlled manually or forced to start.

OIL TESTING INSTRUMENT

SERIES 10

ZYD-F SERIES DOUBLE-STAGE HIGH VACUUM TRANSFORMER OIL FILTRATION MACHINE

Product Characteristics

1. **Powerful Vacuum System:**
   Achieves ultimate vacuum value ≤10Pa.
2. **Patented Degassing Technology:**
   Fast degassing with "T" shape vacuum separation.
3. **Advanced Anti-Foam System:**
   Dual electronic foam monitoring for pump protection.
4. **Reliable Control System:**
   Over-pressure alarm, phase sequence protection.
5. **Efficient Oil Atomization:**
   < 50μm particles improve molecule escape.
6. **High-Density Electrical Heaters:**
   Prevents local overheating and oil cracking.
7. **Heater System Protection:**
   Liquid level, temperature protector for safety.
8. **Vacuum Pump Cooler:**
   Reduces water/vapor entry, extends pump life.
9. **High Precision Filtration:**
   Filters rated up to 1 micron, prevents re-entry.
10. **Oil Discharge Pressure Protector:**
    Monitors filter pressure for machine safety.
11. **High-Performance Oil Pump:**
    Stable, low noise, and long life.

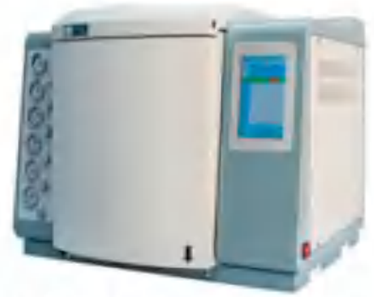
12. **Automatic Oil Level Control:**
    Float ball valve, electronic control for unattended operation.
13. **Weather-Resistant Design:**
    Fully enclosed for outdoor use.

Technical Parameters

Parameters		Model Unit	ZYD-30F	ZYD-50F	ZYD-100F	ZYD-150F	ZYD-200F	ZYD-250F	ZYD-300F
Flow Rate		L/H	1800	3000	6000	9000	12000	15000	18000
Recommended Max. oil volume in one storage tank		Tons	5	12	20	36	55	60	75
Working Vacuum Degree		MPa	-0.08 ~ -0.099						
Limit Vacuum Degree		Pa	≤ 20 Pa						
Working Discharge Pressure		MPa	≤ 0.4						
Temperature Control Range		℃	20 ~ 100						
Operation Temperature		℃	40 ~ 65 (60 ~ 65℃ is best)						
Power Supply			380V AC, 50Hz, 3 phases, 4 wires (or as per your requirements)						
Working hours without Trouble		Hour	4000						
Continuous Working Hours		Hour	150						
Ambient Temperature			-25 ~ 55℃						
Working Noise		dB (A)	65 ~ 85						
Heating Power (adjusted available)		KW	30	60	72	90	120	135	150
Total Power		KW	33	66	78	105	135	152	168
Inlet/Outlet		mm	φ25	φ32	φ42	φ50	φ50	φ60	φ60
Weight		Kg	850	1160	1350	1500	1680	1800	2000
Dimension	Length	mm	1600	1780	1900	2050	2100	2300	2500
	Width	mm	1150	1260	1350	1430	1550	1660	1750
	Height	mm	1780	1830	1900	1960	2060	2100	2250

RDSP-3401
TRANSFORMER OIL GAS CHROMATOGRAPHY

Product Characteristics



1. Build-in NetChromTM workstation of the instrument can support multiple chromatographic analyzers at the same time.
2. New microcomputer temperature control system, high temperature control accuracy, superior reliability and anti-interference performance.
3. The operating system of the full microcomputer keyboard is simple and convenient to operate; And it has designed the automatic identification technology of the detector.
4. The instrument is equipped with a low-noise, high-resolution 24 bit AD circuit, and has the functions of baseline storage and baseline deduction.
5. Chromatographic signal acquisition and data processing, suitable for WinXP, Win2000, Windows7 and other operating systems.
6. Chromatographic system with completely independent intellectual property rights, standard interface of MODBUS/TCP, and convenient connection with DCS.

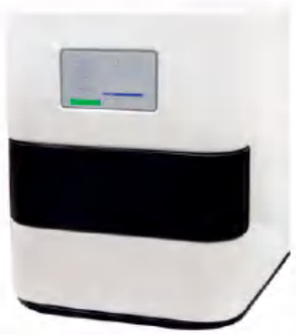
Technical Parameters

Temperature control area	8 ways
Temperature control range	Room temperature: 5 ℃ ~ 400 ℃; increment:1 ℃; accuracy: ±0.1 ℃
Temperature-programmed order	16 order
Temperature-programmed range	0.1 ~ 60℃/min
The gas control	Precision mechanical valve flow control
External events	8 channels; Auxiliary control output (2 channels)
Chromatographic column	Special column for transformer oil
Number of detectors	up to 3, default to FID and TCD (ECD, FPD and NPD are optional)
	Start sampling
Communication interface	Ethernet IEEE802.3
Detector Technology Index	
"1)	Hydrogen flame ionization detector (FID)"
The limit of detection	≤ 5×10-12g/s (sixteen alkyl)
Baseline noise	≤7×10-14A
Baseline drift	≤2×10-13A/30min
Linear range	≥106
"2)	Thermal conductivity detector (TCD)"
Sensitivity	S ≥ 2500mV•ml/mg (sixteen alkyl) (1, 2, 3, 4 times enlarged, optional)
Baseline noise	≤ 20 μV
Baseline drift	≤ 30 μV/30min
Linear range	≥104
Minimum Detection Quantity	
Two injections, the injection volume is 1ml, and the minimum detection concentration in transformer oil	
Component name	Minimum detection concentration (μL/L)

H2	CO	CO2	CH4	C2H4	C2H6	C2H2	O2	N2
2	1	5	0.1	0.1	0.1	0.1	5	5

RDHS-27A
AUTOMATIC HEADSPACE SAMPLER

Product Characteristics



1. 10mL or 20mL headspace bottles can be used to meet a large number of analysis requirements.
2. The starting bottle position and the ending bottle position can be set freely to meet the special needs of the site.
3. The shaking function of the sample bottle accelerates the balance time to improve the efficiency and enhance the sensitivity and reproducibility.
4. 6 sample heating positions can be overlapped to save analysis time and realize Zen speed.
5. Automatic detection of missing sample bottles to reduce the confusion of sequence analysis.
6. Accurate temperature control ensures good reproducibility and avoids the risk of wrong results and sample condensation.
7. It can be controlled directly through the touch screen or through software on the computer.
8. Simple and clear operation interface greatly improves work efficiency.

Technical Parameters

Main Parameters	
Temperature range	15°C to 200°C above room temperature, increment:1°C
Stability	±0.1°C
Number of sample vials	27
Preheating positions	6
Sample vial volume	10mL or 20mL (Two of them can be optional)
Repeatability	RSD ≤ 1.5% (ethanol: water)
Injection pressure range	0 ~ 0.4MPa (continuously adjustable)
Sample Vial	
Number	27
Material	Neutral glass
Volume	10mL or 20mL (Two of them can be optional)
Septum	Butylene rubber coated with teflon (silicon rubber with teflon, optional)
Vial cap	Aluminum
Equilibration Area	
Preheating positions	6
Temperature range	15°C to 200°C above room temperature, increment:1°C
Accuracy	0.5% of the full range
Stability	±0.1°C

Sampling System	
Temperature range	15°C to 200°C above room temperature, increment:1°C
Accuracy	0.5% of the full range
Stability	±0.1°C
Sampling valve	6-way valve (MV65/106HT, optional)
Sampling loop	1mL nickel tube (3mL nickel tube is optional)
Transfer Line	
Temperature range	15°C to 200°C above room temperature, increment:1°C
Accuracy	2.0% of the full range
Stability	±0.5°C
Needle	
Temperature range	15°C to 200°C above room temperature, increment:1°C
Accuracy	2.0% of the full range
Stability	±0.5°C
Electric Requirement	
Power supply	220V(±10%), 50Hz, 600VA; (110V±10%, 60Hz, 600VA optional)
Fuses	5AT, 250V(220V); (10AT,250V(115V) , optional)

RDJJD-100KV INSULATING OIL DIELECTRIC STRENGTH TESTER

Product Characteristics

1. **Reliable Control:**
   Managed by a stable single-chip microcomputer.
2. **Multi-Function Display:**
   Shows temperature, humidity, time, and supports infrared oil temperature measurement.
3. **Crash Prevention:**
   Equipped with a wide-range watchdog circuit for crash prevention.
4. **Versatile Programming:**
   Offers IEC156 standard and customizable self-programming.
5. **Durable Design:**
   Oil cup crafted from special glass and high-polymer materials for leak and corrosion prevention.
6. **Precision Measurement:**
   High-voltage sampling design for accurate measurements.
7. **Robust Protection:**
   Features over-current, over-voltage, and short-circuit protection for reliability.
8. **Language Options:**
   Easily switch between Chinese and English.
9. **Built-in Analysis:**
   Assists in determining oil quality with integrated data analysis.

Technical Parameters

Model. No	RDJJD-100kV
Booster capacity	1.5 kVA
Step up speed	0.5kV/s ~ 5.0kV/s, 10 gears optional, error 0.2kV/s
Output voltage	0 ~ 100 kV
Voltage accuracy	2% reading + 2 words
Power distortion rate	< 1%
Electrode gap standard	2.5mm
Test times	1 ~ 9 times optional
Static release time	0 ~ 9000 seconds optional
Interval rest time	0 ~ 900 seconds optional
Mixing time	0 ~ 250 seconds optional
Power supply	AC 220V (1 ± 10%), 50 Hz (1 ± 10%)
Power consumption	< 200 W

RDJS-610D INSULATING OIL DIELECTRIC LOSS TESTER

Product Characteristics

1. Efficient heating with precise temperature control.
2. Stable calibration with an SF6-filled capacitor.
3. Robust protection and quick shutdown in critical situations.
4. Temperature control with a limit at 120°C.
5. Electrode cup calibration for accurate assessments.
6. High-precision performance with Instrument RAM9 platform.

Technical Parameters

Model.No	RDJS-610D
Power supply voltage	AC 220 V ± 10%
Power frequency	50 Hz / 60 Hz ± 1%
Measurement range	Capacitance is 5pF ~ 200pF
	The relative permittivity is 1.000 ~ 30.000
	The dielectric loss factor is 0.00001 ~ 100
	DC resistivity 2.5 M Ω m ~ 20 T Ω M
Measurement accuracy	Relative permittivity ±(1 ~ 10)% reading
	Dielectric loss factor ± (5% reading + 0.0002)
	DC resistivity ± 10% reading
Resolution	Capacitance 0.01pF
	Relative permittivity 0.001
	Dielectric loss factor 0.00001

RDSZ-303D INSULATING OLEIC ACID VALUE TESTER

Product Characteristics

1. Three-cup design for transformer oil and steam turbine oleic acid testing.
2. Microcomputer control automates liquid handling, stirring, titration, and endpoint determination.
3. Touch color LCD ensures accurate input and stable, reliable performance.
4. Displays/prints 35 sets of results with multiple parameters.
5. Compact and elegant design with a simple case structure.

Technical Parameters

Model. No	RDSZ-303D
Test range	0.001~ 0.400 mgKOH/g
Minimum resolution	0.001 mgKOH/g
Repeatability	2~5% (RSD)
Measurement accuracy	The acid value is ± 0.003 mgKOH/g between 0.001 and 0.100 mgKOH/g
	The acid value between 0.100 and 0.400 mgKOH/g is 2~5% of the indicated valu
Ambient temperature	0 ~ 40 ℃
Relative humidity	≤ 85%
Working power supply	AC220V ± 10%, 50Hz

RDZL-321D INTERFACE TENSION TESTER

Product Characteristics

1. High-precision Wien bridge oscillator for low distortion.
2. Measures surface and interfacial tension with ease and reliability.
3. Improved sensor for enhanced speed and linearity.
4. Single-point calibration ensures accuracy without multiple points.
5. Microprocessor provides temperature-based compensation over a wide range.

Technical Parameters

Model. No	RDZL-321D
Measurement Method	Platinum Ring Method (DuNouy Ring method)
Measurement range	5 ~ 200 mN/m
Accuracy	0.1% reading ± 0.1 mN/m
Resolution	0.1 mN/m
Sensitivity	0.1 mN/m
Power supply	AC220V, 50Hz
Power	20W
Applicable ambient temperature	10 ~ 40 ℃ (typical value: 25 ℃)
Applicable environmental humidity	20% RH ~ 75% RH

RDBS-301D INSULATING OIL CLOSED FLASH POINT TESTER

Product Characteristics

1. High-speed digital signal processor ensures reliability.
2. Features parameter prompts for test date and time.
3. Automatically corrects atmospheric pressure impact.
4. Utilizes differential detection for system deviation correction.
5. Simplified operation with automatic functions.
6. Test arm raises and lowers automatically.
7. Efficient electronic ignition method.

Technical Parameters

Model.No	RDBS-301D
Temperature measurement range	50 ~ 200 ℃
Repeatability	≤ 2 ℃
Reproducibility	≤ ± 4 ℃
Resolution	0.1 ℃
Measurement accuracy	0.5%
Test fire source	electronic ignition
Power	< 300W
Applicable temperature	10 ~ 40 ℃
Applicable humidity	≤ 85% RH
Power supply	AC220V ± 10%, 50 Hz

RDYN-331D KINEMATIC VISCOSITY TESTER

Product Characteristics

1. Utilizes advanced digital PID temperature control for precise temperature regulation.
2. Temperature can be set from room temperature to 150℃, also functioning as a constant temperature water bath.
3. Features a high-definition color touch screen for quick and flexible response.
4. Ensures high measurement accuracy, fast speed, and reliable data.
5. Includes a micro printer for on-the-go test data printing.

Technical Parameters

Model No	RDYN-331D
Display	Color LCD touch screen
Temperature control range	room temperature ~ 150℃
Temperature setting	20℃, 40℃, 50℃, 80℃, 100℃, any value (higher than room temperature ~ 150℃)
Temperature control accuracy	± 0.1℃
Number of test hole	4
Timing range	0 ~ 999s
Timing accuracy	0.1s
Number of timings	1 ~ 4 times
Power	1500W
Power supply	AC220V, 50Hz

RDKF-106D INSULATING OIL MICRO WATER TESTER

Product Characteristics

1. Powered by a 32-bit microprocessor, ensuring efficient and reliable operation.
2. Offers automatic 0-400mA detection for precise and rapid measurements.
3. Utilizes a quality SMT component motherboard for longevity and user-friendly operation.
4. Automatically converts results to desired units with 4 built-in calculation formulas.
5. Features a user-friendly color touch screen and numeric keyboard for convenient data handling.
6. Includes graph curve analysis for insightful water content trend interpretation.

Technical Parameters

Model No	RDKF-106D
Titration method	coulometric titration (coulometric analysis)
Display	color LCD touch screen
Electrolysis current control	0 ~ 400mA automatic control
Measurement range	1μg ~ 200mg
Resolution	0.1 μg
Accuracy	(10 μg -1000 μg) ± 3 μg; no more than 0.3% above 1000 μg
Printer	micro thermal printer
Power supply voltage	220 × (1 ± 10%) V
Power frequency	50 × (1 ± 5%) Hz
Power	< 40W
Ambient temperature	5 ~ 40 ℃
Ambient humidity	≤ 85%

RDKS-3000 INSULATING OIL OPEN FLASH POINT TESTER

Product Characteristics

1. High precision, good repeatability and high degree of automation.
2. Adopt air cooling device to cool down quickly.
3. Adopt high definition color touchscreen technology.
4. It has self inspection function.
5. Platinum igniter is adopted, with long service life and stable ignition.
6. Equipped with micro printer, it can print test data anytime and anywhere.

Technical Parameters

Temperature measurement range	Room temperature ~ 400 ℃
Resolution	0.1 ℃
Accuracy	± 2 ℃
Repeatability	± 3 ℃
Temperature detection	Platinum resistance
Ignition mode	Electric ignition

DC SYSTEM AND BATTERY TEST INSTRUMENT

SERIES 11

RDBT-3018D BATTERY DISCHARGE TESTER

Product Characteristics

1. The test voltage range is wide, covering the 0-300V voltage range battery pack discharge test.
2. The product uses customized nickel-chromium alloy resistors as the load source with low resistance value, high precision, low temperature coefficient, and resistant to current impact.
3. Intelligent chip control of the discharge process.
4. 7-inch bright LCD touchscreen with a resolution of 1024x600; simple and clear, with strong anti-interference ability.
5. Automatic discharge current calculation function.
6. During the process of battery charging and discharging, the voltage of each cell is detected and displayed in real time.
7. The voltage and current curves of the battery pack during the charge&discharge process can be reviewed.
8. The host is configured with U disk for data transfer and support data analysis and report generation.

Technical Parameters

Discharge voltage range	DC 10-300V
Discharge current range	Range 1: 10-20V; Current: 0-40A continuously adjustable
	Range 2: 20-40V; Current: 0-80A continuously adjustable
	Range 3: 40-60V; current: 0-150A continuously adjustable
	Range 4: 60-120V; Current: 0-100A continuously adjustable
	Range 5: 120-300V; current: 0-60A continuously adjustable
Power Input-AC	Single-phase AC 220V, the frequency range is 40-60Hz
Operation mode	Touch screen
Display	7 inch TFT LCD screen, resistive touch screen, resolution 1024x600
Communication	RS485x1
Internal data storage	128MB
Voltage measurement accuracy	±0.5%fs+0.1V Max
Current measurement accuracy	±1%fs+0.1A
Group voltage display accuracy	0.01V
Group current display accuracy	0.1A
Discharge current control accuracy	±1%FS
Protection	Over temperature, over current, current out of control trigger shutdown protection
Emergency stop	High voltage DC switch 120A
Reverse connection protection	Support
Abnormal protection	Power line power failure protection, main cable power failure protection
Over temperature protection	Resistance box over temperature 85℃; radiator over temperature 100℃
Protection	Over temperature, over current, current out of control trigger shutdown protection
Withstand-voltage test	AC input-chassis: 2200V DC 1min AC input-chassis
	DC input-output: 2200V DC 1min DC input-chassis
Cooling	Forced air cooling
Temperature	Operating temperature range: -5~50℃; storage temperature: -40~70℃
Humidity	0~90% PH（40±2℃）
Altitude	Rated 2000 meters above sea level

RDBT-8602 DC POWER SUPPLY COMPREHENSIVE TESTER

Product Characteristics

1. Fully automatic test, completing various test functions according to the menu mode.
2. The host system is with high reliability and excellent performance.
3. With large screen graphic LCD, 5.6-inch color screen and graphic interface, easy to operate.
4. The three-phase automatic numerical control voltage regulator has high output precision, high power and high voltage stability.
5. The new high power consumption device is used as the load, which has strong load capacity, high precision, small volume, light weight and no open fire.
6. The load resistance is arranged in 8421 code order, which can be arbitrarily combined into the load required by users.
7. In the process of discharge, the discharge current remains unchanged.
8. Three keys to complete the setting, print on site, and with RS232 and USB interface.
9. Perfect upper computer function, with the functions of analysis, data storage, comparison and fault. determination .

Technical Parameters

Working power supply	AC 220 V ± 15%, 50 Hz
Power consumption	< 50W
Ambient temperature	-20℃ ～ +55℃
Rated power of three-phase voltage regulator	15kVA; rated current: 50A
Voltage measurement accuracy	≤0.2%
Current measurement accuracy	≤0.5%
Tester	Size: 500×360×420(mm); weight: 15kg
Three-phase voltage regulator	Size: 260×350×600(mm); weight: 18kg
Applicable voltage grade	110V and 220V
Data record capacity	>256M (the memory)
Interface mode	USB and RS232
Working hours	Continuous

RDCD SERIES LITHIUM BATTERY DISCHARGE-CHARGE UNIT

Product Characteristics

1. All-in-One: Handles discharge, charge, and activation for various battery pack voltages.
2. Versatile Discharge: Uses high-efficiency aerospace load materials and advanced control for precise discharges.
3. Efficient Charging: Employs a 3-stage charging mode for improved overall efficiency.
4. Battery Activation: Customizable rules enhance activation, increasing battery capacity.
5. Communication: Supports CAN and RS485 protocols.
6. Wireless Voltage Recording: Utilizes wireless tech to record individual cell voltages.

Technical Parameters

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			
Dimension	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

Product Characteristics

1. Smart Testing: Auto-balances cell charging/discharging to prevent over/undercharging.
2. Easy Presets: Simplifies testing with preset equalization parameters.
3. Voltage Control: Maintains constant voltage, ensuring cells align with the target.
4. Safety Measures: Monitors voltage and temperature for secure operation.
5. User-Friendly Display: 7-inch touch screen for real-time data and easy operation.

Technical Parameters

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)			
Dimension	455*255*220mm/8.5kg	496*246*262mm/14kg	480*255*430mm/18kg	480*255*590mm/29kg

RDLI-8006CT HIGH VOLTAGE LITHIUM BATTERY DISCHARGER

Product Characteristics

1. High-Voltage Discharge: Reaches up to 800V for diverse lithium battery packs.
2. Data Connectivity: Utilizes CAN data bus to read cell data during discharge.
3. Comprehensive Protection: Guards against over-discharge, over-temperature, overcurrent, and polarity reversal.

Technical Parameters

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
Dimension	293*506*773 mm
Weight	45 kg

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

Product Characteristics

1. Conduct 4 independent tests with adjustable voltage (0-5V) and current (up to 100A), or combine for a maximum 400A current.
2. Large-capacity data storage facilitates automatic report generation.
3. Integrated discharge, charging, and activation functions for versatile testing and maintenance.
4. Set multiple shutdown thresholds for safety during testing.
5. 7-inch LCD touch screen for real-time data display and user-friendly operation.
6. Intelligent Ports (RS485, RJ45, CAN) support communication with BMS and other devices.

Technical Parameters

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

Product Characteristics

1. Versatile Application: Suitable for various lithium battery types, including lithium iron phosphate, ternary lithium, and lithium titanate.
2. Efficient Maintenance: Utilizes constant current charging and discharging with a maximum current of 30A, enhancing maintenance efficiency with a portable design.
3. Portability: Compact size, lightweight, and easy to carry.
4. Preset Function: Simplifies operation and speeds up testing with equalization test parameter presets.
5. 3.5-inch LCD Touchscreen: User-friendly interface for real-time parameter display.
6. Pause Function: Manual pause during testing allows for parameter adjustments without test termination.
7. Multiple Protections: Set multiple shutdown thresholds to prevent battery overcharge and overdischarge.

Technical Parameters

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
Dimension	230*155*75 mm
Weight	2 kg

RD-IBC2612 INDIVIDUAL BATTERY INTELLIGENT REGENERATOR

Product Characteristics

1. Spacious Data Storage: Easily manage, delete, and export data with ample storage capacity.
2. USB Connectivity: Seamless data transfer via the included USB port.
3. Auto Protection: Halts testing to protect the battery in case of issues.
4. Integrated Activation: Combines monitoring and power units for efficient activation.
5. PC Software: Supports automatic data processing, trend analysis, and reporting with dedicated software.

Technical Parameters

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

Product Characteristics

1. **Comfortable Design:**
   Ergonomically shaped for user-friendly handling during testing.
2. **Intuitive Display:**
   Navigate effortlessly with a 5" touch screen for an intuitive interface.
3. **Instant Battery Status:**
   Receive immediate State of Health (SOH) information for quick assessments.
4. **Extended Battery Life:**
   Equipped with a large-capacity Lithium battery for up to 8 hours of continuous testing.
5. **Efficient Data Management:**
   Utilize PC software for seamless data processing and analysis.
6. **Ready for Use:**
   Comes complete with a testing clamp and probe for versatile testing applications.
7. **Quick Connectivity:**
   Swiftly download data and facilitate PC communication through the USB port.
8. **Ample Storage:**
   Enjoy extensive data storage with 64MB Flash + 8G SD card.
9. **Secure Transport:**
   Safeguard your tester with the included protective soft case.

Technical Parameters

Model	RD-7000
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

RD8400CT ALL IN ONE BATTERY LOAD BANK

Product Characteristics

1. Discharge for Detached Battery: Used for discharging battery strings removed from the system.
2. Smart Control: 4 stop points, multiple alarms for intelligent discharge.
3. Real-time Monitoring: Monitor via PC or download data post-discharge from the SD Card.
4. Efficient Analysis: PC software for capacity evaluation and report generation.
5. Wireless Voltage: Optional modules for real-time voltage in various cell types.
6. Unmanned Operation: Safe automatic discharge without over-discharging risk.
7. Cell Monitoring: Wireless module supports individual cell monitoring, up to 24 cells.
8. Versatile Compatibility: Suitable for lead-acid or nickel-cadmium batteries on various systems.
9. On-the-Fly Adjustments: Parameters adjustable during the test without interruption.
10. Data Protection: Automatic safeguarding and data preservation for unexpected interruptions or completion.

Technical Parameters

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	≤ ± 0.5%; 0.01 V
	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℃
Storage temperature	-40 ~ 70℃
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

Product Characteristics

1. Discharges battery strings (10V-600VDC) removed from the system.
2. Supports cell voltages (1.2V/2V/6V/12V) within the range of 10V-600V for intelligent discharge.
3. Features 4 adjustable stop points and multiple alarms for controlled discharge.
4. Allows real-time monitoring via PC or data download from an SD Card after discharge.
5. Provides PC software for capacity evaluation and report generation.
6. Optional wireless modules for real-time measuring of 1.2V/2V/4V/6V/12V cell voltages.
7. Unmanned discharge to battery string voltage (10V-600VDC) with individual cell monitoring.
8. Ensures safe discharge without the risk of over-discharging.
9. Capable of monitoring 24 cells through a wireless module.
10. Suitable for use in various systems with lead-acid or nickel-cadmium batteries.
11. Adjustable test parameters during the test without stopping.
12. Automatically protects and saves data in case of an unexpected test stop or end.

Technical Parameters

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	<50kg

RD-CDT INTELLIGENT BATTERY REGENERATOR

Product Characteristics

1. User-friendly operation with English menu prompts for each step.
2. Clear charging and discharging test interface.
3. Analysis based on histogram and curve chart, eliminating the need for PC uploads.
4. Integrated monitoring and power parts for efficient operation.
5. Utilizes low-heat, high-efficiency loading material and advanced control technology.
6. Robust PC software for detailed voltage curve analysis and easy observation.

Technical Parameters

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

Product Characteristics

1. Utilizes high-quality military-grade IC chip and components for reliability.
2. Power switch tube (IGBT) from the USA enhances stability.
3. Automatically follows battery charging curve for precise charging.
4. Quick, high-recovery charging without overcharging concerns.
5. Adjustable uniform charging voltage to suit various battery types.
6. Digital setting for charging current, unaffected by input voltage fluctuations.
7. Multiple protections, including low-voltage, overvoltage, current limit, short circuit, and overtemperature.
8. LCD color screen with English menu for easy operation, compact and portable design.

Technical Parameters

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 rage: -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

Product Characteristics

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.

Technical Parameters

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

Product Characteristics

1. Wireless data transmission for real-time monitoring of individual battery voltage and current during discharge and charge.
2. Three monitoring modes: online charging, online discharge, and long-term hang line monitoring.
3. Each wireless module can collect data from 24 cells (2V/6V/12V).
4. 7-inch LCD touch screen for easy operation and parameter display.
5. Alarm function alerts the tester to any abnormal monomer situations with a sound alarm.
6. Real-time monitoring via PC or data download through SD card.

Technical Parameters

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℃ ~ 40℃, 20% ~ 80%RH
Storage conditions	-20℃ ~ 70℃, 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

Product Characteristics

1. 7-inch LCD touch screen for easy real-time parameter display and operation.
2. Selectable discharge mode: constant current/power.
3. 4 adjustable stop points and intelligent alarm control for precise discharge.
4. USB data download for PC software analysis and report generation.
5. Optional wireless modules for real-time voltage monitoring (1.2V/2V/6V/12V), each sensor handles 24 cells simultaneously.

Technical Parameters

Model No.	RD-CT-24/10	RD-CT-48/30	RD-CT-110/15	RD-CT-220/10	RD-CT-380/10
Output voltage	24V	48V	110V	220V	380V
Output current	1-100A	1-300A	1-150A	1-100A	1-100A
Discharge mode	CC , CP				
Accuracy & resolution	≤±0.5%, 0.01V				
DC voltage measurement					
Internal current range	2-300A				
Accuracy & resolution	≤± 1%; 0.1A				
Cell voltage Range	0-15V				
Accuracy & resolution	≤± 0.5%; 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					
Work temperature	-5 ~ 50℃				
Storage temperature	-40 ~ 70℃				
Humidity	5% ~ 95% RH				
Altitude	Below 4000 m				
Working noise	<60 dB				
Dimensions of host machine	55x25x44 mm				
Net weight	23 kg				

ON-LINE BATTERY MONITORING SYSTEM

Product Characteristics

1. Independent networking for comprehensive intelligent battery pack management.
2. Each module monitors 1-4 sets (1-300 batteries) simultaneously.
3. Real-time monitoring and high-speed data acquisition for comprehensive data analysis.
4. Early warning system intelligently identifies and alerts battery faults.
5. High accuracy in measuring internal resistance.
6. Efficient maintenance, voltage equilibrium <20mV.
7. Protection features include over-voltage, over-current, and over-temperature.
8. Flame retardant battery connections for safety; easy installation under constant charge.
9. Abundant communication interfaces with standard MODBUS protocol.

Technical Parameters

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; accuracy: ≤2%; repeat measurement accuracy: ± 1%
Range of current monitoring	0 ~ ± 1000A (50A, 150A, 300A, 500A, 1000A is optional); accuracy: ≤1%; resolution: 0.1A
Temperature monitoring range	-55℃~+125℃; accuracy: 0.5℃
Voltage equalization degree	<20 mV
SOC or 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

Product Characteristics

1. High-resolution (0.1mA) DC clamp meter enables multi-point grounding and precise high-resistance ground point identification.
2. Circuit branch testing is swift, taking only 3-6 seconds with a simple clamping and button press.
3. No distance limitations between the signal generator and the tester.
4. Safe and reliable operation.

Technical Parameters

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 dimension	460x240x120 mm

REACTIVE COMPENSATION AND GENERATOR TESTER

SERIES 12

RDLC-501 SINGLE PHASE CAPACITANCE AND INDUCTANCE TESTER

Product Characteristics

1. Able to measure the single capacitance or single-phase capacitance of group shunt capacitors without removing the wires and measure the inductance of various reactors, meeting the needs of various field application.
2. The capacitance or inductance value as well as the voltage, current, and other relative data are displayed at the same time.
3. With 8.0-inch color touchscreen and menu prompt, it can be observed clearly during the day and night, easy to operate.
4. 200 groups of measurement data can be stored in the built-in large capacity nonvolatile memory.
5. Equipped with U disk interface, which can store any group of measurement data according to the capacity of U disk.
6. With built-in high-precision real-time clock to calibrate the date and time.
7. With high-speed micro thermal printer to print measurement and historical data.
8. Power over-current protection function protects the instrument from power output short circuit damage.

Technical Parameters

Test voltage	AC 25V±10%, 50Hz; AC 1.25V±10%, 50Hz 25VA	
Measurement range and accuracy	Measurable capacitance range	0.1uF ~ 6800uF ± (1%rdg+0.01uF)
	Measurable inductance range	50uH ~ 20H ±(3%rdg+0.01mH)
	Measurable current range	5mA ~ 20A±(3%rdg+0.1mA)
	Measurable resistance range	50mΩ ~ 20kΩ±(3%rdg+1mΩ)
Overall Dimensions	405mm×330mm×180mm	
Weight of instrument	8.5kg (excluding test line)	
Service conditions	Ambient temperature	-20℃ ~ 40℃
	Ambient humidity	≤85%RH
Working power supply	AC220V±10%, 50±1Hz	

RDLC-503 THREE PHASES CAPACITANCE AND INDUCTANCE TESTER

Product Characteristics

1. Able to measure the single capacitance (single-phase capacitance and three-phase capacitance) of group shunt capacitors without removing the wires and measure the inductance of various reactors, meeting the needs of various field application.
2. The capacitance or inductance value as well as the voltage, current, and other relative data are displayed at the same time.
3. With 8.0-inch color touchscreen and menu prompt, it can be observed clearly during the day and night, easy to operate.
4. 200 groups of measurement data can be stored in the built-in large capacity nonvolatile memory.
5. Equipped with U disk interface, which can store any group of measurement data according to the capacity of U disk.
6. With built-in high-precision real-time clock to calibrate the date and time.
7. With high-speed micro thermal printer to print measurement and historical data.
8. Power over-current protection function protects the instrument from power output short circuit damage.

Technical Parameters

Test voltage	AC 25V±10%, 50Hz; AC 1.25V±10%, 50Hz 25VA	
Measurement range and accuracy	Measurable capacitance range	0.1uF ~ 6800uF ± (1%rdg+0.01uF)
	Measurable inductance range	50uH ~ 20H ±(3%rdg+0.01mH)
	Measurable current range	5mA ~ 20A±(3%rdg+0.1mA)
	Measurable resistance range	50mΩ ~ 10kΩ±(3%rdg+1mΩ)
Overall Dimensions	405mm×330mm×180mm	
Weight of instrument	8.5kg (excluding test line)	
Service conditions	Ambient temperature	-20℃ ~ 40℃
	Ambient humidity	≤85%RH
Working power supply	AC220V±10%, 50±1Hz	

RD3205S WATER COOLED GENERATOR INSULATION RESISTANCE TESTER

Product Characteristics

1. The high-voltage generator module adopts fully enclosed technology and has internal protection resistance, which is safe and reliable.
2. Strong anti-interference ability, can meet the on-site operation of ultra-high voltage substation.
3. Automatic discharge after the test, and monitoring the discharge process in real time.
4. Suitable for measuring the insulation resistance, absorption ratio (R60S/R15S) and polarization index (R10min/R1min) of water-cooled generators.
5. Automatic compensation adjustment of water polarization potential.
6. It has the function of automatically compensating and adjusting the water polarization potential.

Technical Parameters

Function	Insulation Resistance Test (IR); Polarization Index Test (PI); Absorption Ratio Test (DAR)
Rated voltage	2.5kV, 5kV
Output voltage accuracy	±(5%+5 digits)
Insulation resistance test range	0.1M ~ 200GΩ
Short circuit current	≥25mA
Measuring time	1 ~ 10 mins (depending on the measuring method)
Temperature measurement	-25℃ ~ 125℃
Display mode	LCD, digital display and analog progress bar display
Working power supply	AC 220V,50Hz
Working environment	Temperature: -10 ~ 40℃; relative humidity: 20 ~ 80%RH

RDZGS-80/300 WATER COOLED GENERATOR DC WITHSTAND VOLTAGE TESTER

Product Characteristics

1. Able to completely eliminate the interference of stray current and the polarization potential of the sink pipe.
2. It adopts medium frequency double voltage circuit.
3. It adopts the latest PWM (pulse width modulation) technology and high-power IGBT devices.
4. Special shielding, isolation and grounding measures are adopted.
5. With high quality, portable, and able to withstand the rated voltage discharge without damage.

Technical Parameters

Output voltage	80 kV
Output current	300 mA
Output power	24000 W
Voltage measurement error	1.0% ± 2 digits
Current measurement error	1.0% ± 2 digits
Overvoltage and rectification error	≤1.0%
Ripple factor	≤3.0%
Voltage stability	≤1.0%
Power supply	AC380V (3-phase, 4-wire line)

RDFV-II GENERATOR SURFACE POTENTIAL TESTER

Product Characteristics

1. Safe to use and convenient to carry.
2. Simple operation and accurate measurement.
3. The tester adopts a three-stage disassembly and assembly structure, which can decide whether to install an extension rod according to the length of the measurement distance.

Technical Parameters

Test range	DC 0.1~30kV
Accuracy	1.5 level
Power supply	6F22 9V battery
Operating temperature	-10℃ ~ 40℃
Relative humidity	≤85%, no condensation

GROUNDING AND INSULATION RESISTANCE TESTER

SERIES 13

RD3000B GROUNDING RESISTANCE TESTER

Product Characteristics

1. Toolbox made of polypropylene for superior properties.
2. Withstands up to 200kg pressure for high accuracy and reliability.
3. Large LCD display with backlight for clear readings.
4. Stores 300 sets of data, allowing easy data management and reporting.

Technical Parameters

Function	Ground resistance, soil resistivity test; ground voltage, AC voltage test
Measurement mode	Precision 4-wire, 3-wire measurement, simple 2-wire measurement of ground resistance
Measurement method	Grounding resistance: rated current changing pole method, measuring current 20mA Max
	Soil resistivity: four-pole method (Winner method)
	Voltage to ground: average rectification (between P (S) -ES interface)
Measuring range	Measure the ground resistance (R) with two, three and four wires: 0.000Ω ~ 200.0kΩ
	Soil resistivity (ρ): 0.00Ωm ~ 9999kΩm
	Ground voltage: AC 0.001 ~ 600.0V
Maximum resolution	Two, three or four wire method for measuring ground resistance (R): 0.001Ω
	Soil resistivity (ρ): 0.01Ωm
	Ground voltage: 0.001V
Precision	Two, three and four wire method for measuring grounding resistance (R): ± 2% rdg ± 5dgt (0.000Ω ~ 10.00kΩ) ± 3% rdg ± 5dgt (10.00kΩ ~ 100.0kΩ) ± 3.5% rdg ± 5dgt (100.0kΩ ~ 200.0kΩ)
	Soil resistivity (ρ): according to the measurement accuracy of R (P = 2πaR a: 1 m ~ 100m; π = 3.14)
	Ground voltage: ± 2% rdg ± 3dgt
	Note: 1. The additional error at rC max or rP max is ≤ ± 5% rdg ± 5dgt. (rC max: 4kΩ + 100R < 50kΩ, rP max: 4kΩ + 100R < 50kΩ) 2. The additional error at 5V interference voltage is ≤ ± 5% rdg ± 5dgt.
Short-circuit test current	AC 20mA max
Open circuit test voltage	AC 90V max

RDDT-10A GROUNDING DOWN LEAD CONDUCTION TESTER

Product Characteristics

1. Using high-performance single chip microcomputer control, the test process can be intelligent.
2. Small size, easy to carry and operate.
3. High precision, fast testing speed, good repeatability and intuitive reading.

Technical Parameters

Test current	AUTO、1A、3A、5A、10A
Measuring range	0.8mΩ-0.8Ω (10A)
	1mΩ-2Ω (5A)
	5mΩ-3Ω (3A)
	10mΩ-10Ω (1A)
Minimum resolution	0.1μΩ
Accuracy	±(0.5%±2 digits)
Display	LCD display, resistance display, 4 significant digits
Data storage	1000 groups
	Ambient temperature:0℃ ~ 40℃
Working environment	Relative humidity <90% RH , no condensation
Power supply	Built-in lithium battery AC 220V±10V, 50Hz±1 Hz， fuse 2A
Maximum power consumption	100W

RDWR-5A GROUNDING RESISTANCE TESTER

Product Characteristics

1. The measured power frequency equivalence is good.
2. Strong anti-interference ability. High anti-interference performance makes the test data stable and reliable.
3. High measurement accuracy; the basic error is only 0.005 Ω.
4. Powerful function. It can measure current pile, voltage pile, grounding grid impedance, grounding resistance, grounding conduction, soil resistivity, etc.
5. Full touch LCD and super large full graphic operation interface have each process very clear.
6. With calendar chip and large capacity memory; able to display, save and print the results at any time.
7. Scientific and advanced data management.
8. Various protection functions to ensure the safety of test personnel and equipment.
9. With vector test function, able to measure the impedance angle.
10. Less wiring labor, no need for high current wire.
11. Integrated type, with standard resistance and constant current source, convenient for field test.
12. Controlled by microprocessor, the instrument is easy to operate.

Technical Parameters

Measurement range	0 ～ 5000Ω （including current pile impedance）
Resolution	0.001mΩ
Measurement error	± （2%rdg+0.005Ω）
Anti-power frequency 50 Hz voltage interference ability	10V
Test current waveform	Sine wave
Test current frequency	Single frequency: 40-70Hz, resolution 0.1Hz (set at will)
	Dual frequency: 50±0.1Hz to 50±10Hz (set at will); 60±0.1Hz to 60±10Hz (set at will)
Output current	5A (reach 30A by using external power supply)
Output voltage	400V （reach 1000V by using external power supply）
Requirements for measuring line	Cross section area of copper core of current line ≥1.5mm2
	Cross section area of copper core of voltage wire≥1.0mm2
	(The measuring line is provided by the user)
Test power supply	Built-in 2kW variable frequency power supply
Power supply	AC 220V±10% ,50Hz

RDIR3480A/3480B INSULATION RESISTANCE TESTER

Product Characteristics

1. Controllable off-white backlight, suitable for dark places.
2. With automatic discharge function.
3. With automatic shutdown function.
4. With data hold function.

Technical Parameters

Function	Insulation resistance test, DAR, PI, AC/DC voltage test
Power supply	DC 1.5V LR14×6pcs
Rated voltage	RDIR3480A: 50V, 250V, 500V, 1kV, 2.5kV
	RDIR3480B: 50V, 250V, 500V, 1kV, 2.5kV, 5kV
Insulation resistance range	RDIR3480A: 0.1MΩ ~ 200GΩ
	RDIR3480B: 0.1MΩ ~ 400GΩ
Voltage range	AC/DC 0V ~ 750V
Shout circuit current	2mA Max
Max capacitive load	1μF
Display mode	4 digital LCD, backlight
Measurement indication	LED flicker and buzzer ring in measurement
Battery voltage	Battery voltage symbol display, when battery voltage is low will remind to replace the battery in time
Automatic discharge	Automatic release the voltage of the measured object, During discharging,symbol flash.Discharge completion symbol extinguish
Auto shutdown	15 minutes after boot up, the meter shuts down automatically without any operation
Working temperature and humidity	-10℃ ~ 40℃; below 80%RH
Suitable safety standard	IEC61010-1(CAT III 300V CAT IV 150V Pollution 2)

RDER2000C+ MULTI-FUNCTION CLAMP EARTH RESISTANCE TESTER

Product Characteristics

1. Self-test quickly, start immediately into the test.
2. Using the most advanced processing algorithms and digital integration technology.
3. The product is light in weight, more in line with characteristics of hand-held devices.
4. New design, panel operation with 6 buttons, better performance.
5. Increase sound and light alarm function.
6. Increase the interference signal recognition indicator function, with "beep-beep-beep" indicator.
7. Lower power consumption, Maximum operating current less than 50mA.

Technical Parameters

Model	RDER2000C+	RDER2100C+
Power Supply	6VDC 4 PCS LR6 lkaline batteries	6VDC 4 PCS LR6 lkaline batteries
Clamp Size	65mm×32mm	Φ32mm
LCD Size	4 Digits LCD display, Screen: 47mm×28.5mm	4 Digits LCD display, Screen: 47mm×28.5mm
Range	Resistance 0.01Ω-1200Ω,current 0.00mA~20.0A.	Resistance 0.01Ω-1200Ω,current 0.00mA~20.0A.
Resolution	Resistance 0.001Ω,current 0.05mA	Resistance 0.001Ω,current 0.05mA
Accuracy	Resistance ±1%±0.01Ω,current ±2.5%rdg±1mA	Resistance ±1%±0.01Ω,current ±2.5%rdg±1mA
Data Storage	99 sets	99 sets
Data Upload Function	RS232 Interface (Optional)	RS232 Interface (Optional)
Auto Shutdown	Automatically power off after 5 minutes without any operate	Automatically power off after 5 minutes without any operate
Power Consumption	≤50mA, Continuously working for 30 hours	≤50mA, Continuously working for 30 hours
Working Environment	-20℃~55℃ 20%~80%RH	-20℃~55℃ 20%~80%RH
Store Environment	-20℃~60℃; below 90%RH	-20℃~60℃; below 90%RH
Alarm Threshold Setting Range	Resistance: 1~199Ω, current 1~499mA.	Resistance: 1~199Ω, current 1~499mA.
Protection Level	Double insulation	Double insulation
Shift	Automatic shift	Clamp CT
External Magnetic Field	<40A/m	Automatic shift
External Electrical Field	<1V/m	<40A/m
Single Measurement Time	0.5 second	<1V/m
Resistance Measurement Frequency	>1KHz	>1KHz
Measured Current Frequency	50/60Hz Automatic	50/60Hz Automatic
Tester Weight	1160g	1160g
Tester Dimension	285mm×85mm×56mm	285mm×85mm×56mm

RD3215E HIGH VOLTAGE INSULATION RESISTANCE TESTER

Product Characteristics

1. The charge of the tested object can be released automatically after the test.
2. Large capacity rechargeable lithium battery pack is adopted.
3. Able to automatically record the test time and stores the test results with date and time.
4. The fully isolated USB interface can upload the test data to the PC safely.
5. The instrument adopts a strong double-shell structure, and the outer case of the instrument has a protection rating of IP65 (close the case).

Technical Parameters

Rate Voltage		50V	250V	500V	1000V	2500V	5000V	10kV	15kV
Range & Accuracy	±5%	10.0GΩ	50.0GΩ	100GΩ	200GΩ	1.00TΩ	2.00TΩ	4.00TΩ	6.00TΩ
	±20%	100GΩ	500GΩ	1.00TΩ	2.00TΩ	5.00TΩ	10.0TΩ	20.0TΩ	30.0TΩ

Function	insulation resistance (IR), polarization index (PI), dielectric absorption ratio (DAR), step voltage (STEP), ramp (RAMP), dielectric discharge index (DD), capatiance measurement (CAP) , voltage measurement (V)
Power Supply	Rechargeable lithium battery pack 6.2Ah/14.8V
Rated Voltage	50V, 250V, 500V, 1kV, 2.5kV, 5kV, 10kV, 15kV
Output Voltage Accuracy	(5% ~ 10%) ±10V
Insulation Resistance Range	0.005MΩ ~ 30.0TΩ
Short Circuit Current	7mA
Capatiance Measurement	Range: 10nF ~ 200μF; Accuracy: ±10%rdg ± 10nF
Voltage Measurement	Rang: DC 0V~1000V ; Accuracy: ±5%rdg±3V Rang: AC 0V~700V ; Accuracy: ±5%rdg±3V
Custom Setting Output Voltage	40V ~ 15kV
Custom Setting Test Time	10s ~ 3600s
Real Time Current Value	Display test current value, current display range: 0.001nA ~ 7.5mA
Real Time Voltage Value	Automatically monitoring the voltage of the measured object. When the voltage exceed 36V and will automatically prohibit to test to effectively protect the instrument and the operator.
Test Timer	Automatically record test duration, timing range: 0s ~ 9999s
Store Function	Automatically store the test date, time and timing, total of 1000 groups, which can view and replay the stored test record
USB Comminication	Yes, upload the test record to PC through the USB cable
Bluetooth Communication	Yes, it can connect to the Android mobile or others with the buletooth communication device
Battery Power Indication	With the battery power indication, when battery voltage low will remind to charge in time
Automatic Shutdown	After 15 minutes start up will shut down automatically without any operation
Protection Level	Close the case IP65; open the case IP40
Working Environment	-20℃ ~ 50℃; 80%RH
Withstand Voltage	AC 3kV 50Hz 1min (between the test circuit and shell)
Suitable Safety Standard	IEC61010-1, IEC61326-1

RD3022E EARTH RESISTANCE SOIL RESISTIVITY TESTER

Product Characteristics

1. The fuselage is light, easy to carry and operate.
2. The large LCD display of host machine, with white backlight and bar graph indicating that can be seen clearly.
3. 300 sets of data can be stored.
4. With the functions as historical data access, reading and preservation.
5. The tester case is made of waterproof protection box, anti-collision, anti-drop, waterproof (protection grade IP65), strong and durable.

Technical Parameters

Functions	2/3/4-pole measurement for earth resistance, soil resistivity, earth voltage, AC voltage
Power supply	DC 7.4V 2600mAh rechargeable lithium battery, full of about 8.4V
Measurement range	Earth Resistance: 0.00Ω ~ 30.00kΩ
	Soil Resistivity: 0.00Ωm ~ 9000kΩm
	Earth Voltage: 0V~ 600V
Measurement mode	Precise 4-pole measurement, 3-pole measurement, simple 2-pole measurement of earth resistance
Measurement method	Earth Resistance: rated current change-pole method, test current 20mA Max
	Soil Resistivity: 4-pole method (Wenner method)
	Earth Voltage: average rectification (between P(S)-ES)
Test frequency	128Hz/111Hz/105Hz/94Hz(AFC)
Short-circuit test current	AC 20mA max
Open-circuit test current	AC 40V max
Test voltage wave	Sine wave
Display mode	4-digital super-large LCD, white screen backlight
Meter Dimensions	215mm(L)×178mm(W)×83mm(H)
Measuring times	Over 5000 times (short-circuit test, interval time should be at least 30 seconds)
Working current	Standby: about 20mA (backlight close)
	Boot up and open backlight: about 45mA (25mA backlight close)
	Measurement: about 100mA (backlight close)
Weight	Tester: 4.73kg
	Test wires: 1.56kg
	Auxiliary ground rods: 0.935kg (4pcs)
Working temperature and humidity	-10°C ~ 40°C, below 80%RH
Overload protection	Measuring earth resistance: between each interfaces of C(H)-E and P(S)-ES, AC 280V/3 seconds
Insulation resistance	Over 20MΩ (between circuit and enclosure it is 500V)
Withstand voltage	AC 3700V/rms (between circuit and enclosure)
Electromagnetic features	IEC61326(EMC)
Suitable safety standard	IEC61010-1 (CAT III 300V, CAT IV 150V, Polhution 2), IEC61010-031,
	IEC61557-1 (earth resistance), IEC61557-5 (soil resistivity)

RD3032E DOUBLE CLAMP GROUNDING RESISTANCE TESTER

Product Characteristics

1. The fuselage is light, easy to carry and operate.
2. The large LCD display of host machine, with backlight and bar graph indicating that can be seen clearly.
3. It can store 2000 groups of data
4. Alarm indication and auto shut down
5. With the functions as historical data access, reading and preservation.

Technical Parameters

Function	Description
Power Supply	DC 7.4V 2600mAh rechargeable lithium battery, full of about 8.4V
LCD Size	124mm x 67mm (with backlight)
Data Storage	2000 groups
Data Upload	With USB interface, software monitoring, storage data can be uploaded to computer, saved and printed
Automatic Shut Down	Automatically shut down after 15 minutes start up
Power Consumption	Turn on the backlight : 45mA Max
	Turn off the backlight : 25mA Max
	Measurement: 100mA Max (Backlight shut off)
Working Temperature & Humidity	-10°C ~ 40°C, below 80%RH
Storage temperature & humidity	-20°C ~ 60°C, below 70%RH
Clamp Caliber	Φ 68mm
Measuring Method	2/3/4 pole measurement method: Change-pole method, measurement current 20mA Max
	Selection measurement method: Change-pole method, measurement current 20mA Max
	Double clamp measurement method: Non-connect mutual inductance method, measurement current 1mA Max
	Soil Resistivity: 4-pole measurement (Wenner method)
	AC current: Mutual inductance method (clamp)
	Earth Voltage: Average rectification (between P(S)-ES)
Test Frequency	128Hz/111Hz/105Hz/94Hz (AFC)
line resistance check	Automatic calibration
Measuring Rate	AC current: about 2 times/second
	Earth Voltage: about 2 times/second
	Earth resistance,soil resistivity: about 7 seconds/time
Measuring Times	Over 5000 times (Short-circuit test, interval time should be at least 30seconds)
Short-circuit Test Current	AC 100mA max
Open-circuit Test Voltage	AC 40V max
Test Voltage Wave	Sine wave
Electrode Distance Range	1m ~ 100m
Line Voltage	Measurement below AC 600V
Data Hold	Data hold function: "HOLD" symbol display
Data Access	Data read function: "READ" symbol display
Overflow Display	Exceed measuring range overflow function: "OL" symbol display
Auxiliary Grounding Test	With auxiliary grounding resistance test function, 0.00KΩ ~ 30kΩ (100R+rC<50kΩ, 100R+rP<50kΩ)
Interference Test	Automatic identification of interference signals, "NOISE" symbol indication when the interference voltage is higher than 5V
Alarm Function	Measuring value exceeds alarm setting value, will "Toot-toot-toot" alarm hint
Battery Voltage	While battery voltage decreases to around 7.2V±0.1V, will display battery voltage low symbol, and reminding to charge
Overload Protection	Measure earth resistance: between each interfaces of E-P、E-E- C,AC 280V/3 seconds
Protection Level	IP65 (close the case)
Insulation Resistance	Over 20MΩ (between circuit and outside shell is 500V)
Withstand Voltage	AC 3700V/rms. (Between circuit and outside shell)
Electromagnetic Features	IEC61010- 4-3,Wireless frequency electromagnetic field ≤1 V/m
Protection Type	IEC61010-1 (CAT III 300V、CAT IV 150V、Pollution 2);
	IEC61010-031;
	IEC61557-1 (Earth resistance);
	IEC61557-5 (Soil resistivity);
	JJG 366-2004 (Grounding resistance meter)

POWER METERING PRODUCTS

SERIES 14

RDCR5000 POWER QUALITY ANALYZER

Product Characteristics

1. The analyzer adopt DSP and ARM double processor.
2. Analog signal acquisition is completed by 2 pieces AD7655 of ADI company to ensure the accuracy of the channel and the information integrity.
3. DSP working frequency is over 200 MHZ, which can realize the synchronization of power frequency and sampling frequency.
4. The 5.6-inch LCD color screen with a resolution of 640 dots × 480 dots and with different display color which enables users to understand the status of grid parameters more efficiently and intuitively.
5. Built-in flash memory can store 60 group of screenshots at the same time, 150 groups of capture transient voltage/current waveform figure, and 12800 groups of alarm list. Starting current detection model, it can continuously capture starting current waveform for 100 s.
6. Built-in 2G memory card can store the trend curve records for 300 days.

Technical Parameters

Power supply	Rechargeable lithium-ion battery packs 9.6V, backup charger
Working current	about 590mA, continuous working 8hours
Display mode	LCD color screen, 640×480, 5.6 inches, display field 116mm × 88mm
Instrument size	240mm×170mm×68 mm
Number of channels	4 voltages, 4 currents
Line Voltage	1.0V~2000V
Phase Voltage	1.0V~1000V
Frequency	40Hz~70Hz
Phasor Diagram Display	Automatic
Menu language	English/Chinese
Working Temperature	-10°C~40°C; below 80%Rh
Input Impedance	Test voltage input impedance: 1MΩ
Withstand voltage	Withstand the sine wave AC voltage of 3700V/50Hz one minute between the instrument line and out shell
Insulation	Between instrument line and shell ≥10MΩ
Structure	Double insulation, with insulation shock-proof sheath
Other functions	Data storage, automatic shutdown, data Hold, low battery prompt, backlight, USB interface
SuitableSafely Standard	IEC 61010 1000V Cat III / 600V CAT IV, IEC61010-031, IEC61326, Pollution degree: 2
Note: The following data are presented in reference conditions and ideal current sensors (completely linear and without phase displacement).	

Product Characteristics

1. The analyzer adopt DSP and ARM double processor.
2. Analog signal acquisition is completed by 2 pieces AD7655 of ADI company to ensure the accuracy of the channel and the information integrity.
3. DSP working frequency is over 200 MHZ, which can realize the synchronization of power frequency and sampling frequency.
4. The 5.6-inch LCD color screen with a resolution of 640 dots × 480 dots and with different display color which enables users to understand the status of grid parameters more efficiently and intuitively.
5. Built-in flash memory can store 60 group of screenshots at the same time, 150 groups of capture transient voltage/current waveform figure, and 12800 groups of alarm list. Starting current detection model, it can continuously capture starting current waveform for 100 s.
6. Built-in 2G memory card can store the trend curve records for 300 days.

Current Sensor Characteristics (Optional)

Current sensor model	Current Clamp	Current True RMS	Current True RMS Max Error	Phase Angle φ Max Error
008B		10mA ~ 99mA	±(1%rdg+3dgt)	±(1.5°), Arms≥20mA
Small sharp current clamp: 7.5mm×13mm		100mA ~ 10.0A	±(1%rdg+3dgt)	±(1°)
040B		0.10A ~ 0.99A	±(1%rdg+3dgt)	±(1.5°)
Round jaw current clamp: Φ40mm		1.00A ~ 100A	±(1%rdg+3dgt)	±(1°)
068B		1.0A ~ 9.9A	±(2%rdg+3dgt)	±(3°)
Round jaw current clamp: Φ68mm		10.0A ~ 1000A	±(2%rdg+3dgt)	±(2°)
300F		10A ~ 99A	±(1%rdg+3dgt)	±(3°)
Flexible Coil Current Sensor: Φ300mm		100A ~ 3000A	±(1%rdg+3dgt)	±(2°)
Note: The above four current sensors are selected by users according to their own needs. (If not, selected R068B round jaw current clamp by default)				

RDJL-602 THREE PHASE WATT HOUR METERCALIBRATOR

Product Characteristics

1. Verifying on site the error of single and three phrase watt hour meters and power acquisition terminals.
2. Able to detect the error without power outage or changing the wiring of the measuring circuit.
3. Voltage, current, phase angle, power factor and other electrical parameters ensure the accuracy of fault detection.
4. Wiring errors in metering devices can be visually checked by vector diagram of three-phase voltage and current.
5. Clamp type transformer is used to make the operation quick, simple, safe and reliable.
6. The comprehensive error of reactive energy meter can be detected without changing the wiring.
7. Able to display voltage and current waveforms simultaneously or separately; able to analyze 1-32 harmonic content and harmonic value, and draw a histogram.
8. With built-in EMWIN operating system, 7-inch true color LCD full touchscreen; A variety of electrical parameters can be displayed on one screen.
9. Supporting DBF database management and query; USB disk export and Excel spreadsheet opening.

Technical Parameters

Voltage	2 ~ 450V, automatic conversion limit, minimum resolution 0.01V
Current	Built-in CT: 0.1-5A, accuracy 0.05 grade (10A optional)
	External clamp CT: 0.1 ~ 5 A, accuracy is 0.1 grade (10A optional)
Power measurement	Active power: 0 ~ 99999W, minimum resolution: 0.01W
	Total active power: 0-999999W, minimum resolution: 0.01 W
	Reactive power: 0 ~ 99999W, minimum resolution: 0.01W
	Total reactive power: 0-999999 W, minimum resolution: 0.01W
	Power factor: 0.001 ~ 1, minimum resolution: 0.0001
Phase angle	0 ~ 359.9 °, minimum resolution 0.0001°
Frequency	45 ~ 55Hz, resolution
Working temperature	- 20 ℃ ~ + 50 ℃
Working power supply	AC 80V ~ 265V
Power consumption	≤ 3VA

RDCF-150KV AC/DC HIGH VOLTAGE DIVIDER

Product Characteristics

1. Precision high-voltage film capacitor and precision high-voltage glass glaze resistor are adopted to improve the measurement accuracy and stability.
2. Special shielding technology is adopted to improves the anti-interference ability, so as to achieve high stability and high linearity.
3. The high-voltage divider is filled with DuPont filling material and sealed by special process. No oil leakage. When working, the high and low voltage parts are far away, so the work is safe and reliable.
4. Using dial switch to switch high and low voltage, AC and DC, convenient and fast.
5. It adopts portable structure. The whole machine is made of aluminum alloy packing box, which can be easily disassembled. Small in size, light in weight, easy to carry, very convenient to use.

Technical Parameters

Divider impedance	1800 MΩ
Voltage class of voltage divider	AC: 150kV; DC: 150kV
Display meter range	Low: 0-20kV; High: 0-150kV
AC measurement mode	True RMS measurement
Precision	AC: 1.0%; DC: 0.5%
Insulating medium	DuPont dry dielectric materials
Divider ratio	1000:01:00
Connecting coaxial cable	3m
Ambient temperature	0~40℃
Humidity	≤85%RH

RDML-400A TRIPLE-CLAMP DIGITAL PHASE VOLTAMMETER

Product Characteristics

1. Equipped with anti-vibration, anti-slip, high insulation sheath and USB interface.
2. 500 groups of data can be stored; USB interface; the stored data can be uploaded to the computer, easy to analyze and manage.
3. 2.8-inch TFT color LCD; all parameters can be displayed on the same screen.

Technical Parameters

Measurement function	Measurement range	Resolution	Basic error
Voltage	AC 0.00V ~ 600V	0.01V	± (0.5% range)
Current	AC 0.0mA ~ 20.0A	0.1mA	± (0.5% range)
Phase position	0.0° ~ 360°	0.1°	±1°
Active power (p)	0.0W ~ 12kW	0.1W	± (1.0% range)
Reactive power (Q)	0.0var ~ 12kvar	0.1var	± (1.0% range)
Apparent power (s)	0.0VA ~ 12kVA	0.1VA	± (1.0% range)
Frequency (f)	45Hz ~ 65Hz	0.01Hz	± (1.0% range)
Power factor (PF)	-1 ~ +1	0.001	±0.03
Power Supply	DC 9V (1.5V LR6×6PCS)		
Jaw size	Φ8mm		
Work environment	-10 ℃ ~ 40 ℃; below 80% RH		
Phase sequence	Normal phase: U1, U2, U3 or I1, I2, I3 cursor flashes from left to right		
	Reverse phase: U1, U2, U3 or I1, I2, I3 cursor flashes from right to left		
Other functions	Data storage, automatic shutdown, data hold, low battery prompt, backlight, USB interface		
Suitable for safety regulation	IEC61010-1 CAT III 600V, IEC61010-031, IEC61326, Pollution level 2		

RDXZ-2 PHASE DETECTOR

Product Characteristics

1. The clamp type non-contact inductive measurement is adopted to detect the phase sequence without stripping the cable skin or contacting the high-voltage exposed live wire; safe and fast.
2. Dynamic acousto-optic indication of the positive phase or reverse phase state of the three-phase power supply; phase sequence is clear at a glance.
3. The bottom plate of the instrument is equipped with four magnets, which can fix the instrument on the metal shell of the equipment during the test to make the operation convenient and handy.

Technical Parameters

Power supply	DC 3V (1.5V LR6×2PCS)
Jaw size	Φ1.6mm ~ Φ16mm
Voltage range	AC 70~1000V
Automatic shutdown	Automatic shutdown in about 5 minutes
Working environment	-10 ~ 50 ℃, below 80% RH
Maximum voltage	AC1000V
Insulation strength	5.4kVrms
Maximum rated power	300mVA
Suitable for safety regulation	En61010-1:2001, en61010-031:2002, pollution level 2, cat III (600V), instantaneous overvoltage 6000V
Weight	About 215g (including battery)
Size	Width×Height×Thickness: 70mm × 75mm × 30mm

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.

COMMON TEST EQUIPMENT OF 500KV SUBSTATION

No.	Equipment Name	Specification and Model	Purpose
1	HV Test Equipment		
1	DC High Voltage Generator	RDZG-350/5	To conduct DC withstand voltage test of power transformers, cables and other equipment; to test DC characteristics of zinc oxide lightning arrester
2	Series Resonant Device With Variable Frequency	RDXZ-2400kVA/800kV	To conduct AC withstand voltage test of 500kV and below substation CT, PT, circuit breaker, disconnector, wall bushing, pillar insulator, etc.
3	Power Frequency Withstand Voltage Tester	RDYD-10kVA/100kV	To conduct the withstand voltage test of 35kV switch, PT, CT and other electrical equipment
4	Power Frequency Withstand Voltage Tester	RDYD-5kVA/50kV	To test the voltage resistance of 10kV and below switches, PT, CT and other electrical equipment
5	Multiple Frequency Voltage Generator	RDDF-10kVA	To test inductive withstand voltage of transformers and instrument transformers
6	AC/DC High Voltage Divider AC/DC	RDCF-200kV	To measure test voltage
2	Electrical Characteristics Test Equipment		
1	Transformer Tan Delta Tester	RD6000A	To measure the capacitance or dielectric loss of transformer, PT and CT.
2	Transformer Turn Ratio Tester	RDB-II	To measure the ratio and group of transformer and voltage transformer
3	Transformer Load and No Load Tester	RDBK-IV	To measure transformer short-circuit impedance and load loss, no-load current and no-load loss
4	Transformer On-load Tap-changer Analyzer	RDKC-2000	Accurately to measure parameters such as transition time, transition waveform, transition resistance and other parameters of on-load tap-changers
5	Frequency Sweeping Response Analyzer	RDRB-IV	To conduct transformer winding deformation measurement
6	Transformer DC Resistance Tester	RDZR-40A	To measure the resistance of transformer and instrument transformer windings

7	Partial Discharge Tester	RDPDD-104H	To conduct partial discharge measurement and analysis of electrical equipment
8	Circuit Breaker Analyzer	RDGC-8A	To measure the operating time, simultaneity, bouncing process, opening distance, stroke, and the open-close speed of the circuit breaker
9	Loop Resistance Tester	RDHL-200A	To measure the circuit resistance of the closed Circuit breaker
10	Vacuum Switch Vacuum Tester	RDZK-IV	To measure the vacuum degree of the vacuum circuit breaker
11	Microcomputer Relay Protection Tester	RDJB-1600M	To perform comprehensive protection detection: voltage protection, current protection, differential protection, low cycle protection, whole set of tests, etc.
12	Transformer Comprehensive Characteristic Tester	RDHG-D	To test the 5% or 10% error curve, transformation ratio and polarity of CT as to verify whether the requirements for the protective device are met
13	Intelligent Primary Current Injector	RDSL-82-6000A	To test the primary current of the equipment
14	Cable Fault Testing System	RDCD-II	To test the fault point of the cable and to pinpoint it precisely
15	High Voltage Wireless Phase Detector	RDF-500	Wirelessly to detect the phase angle, frequency and other parameters of high-voltage lines
16	Metal Oxide Surge Arrester Analyzer	RDYZ-302	To measure the full current, resistive current and harmonic current of zinc oxide arrester and other parameters
17	Arrester Counter Tester	RDYZ -IV	To test the action of lightning arrester discharge counters
18	Battery Discharge Tester	RDBT-3018D	Mainly to test discharge of lead-acid battery packs for backup power supply in China Telecom, China Mobile,China Unicom, and power DC industries
19	Battery Internal Resistance And Capacity Tester	RDBT-8604	To test online the battery voltage, internal resistance, connection bar resistance and other important battery parameters
20	Portable DC Grounding Fault Tester	RDBT-8605	To find out grounding fault for battery packs
21	Capacitance And Inductance Tester	RDLC-503	To measure the capacitance of capacitors and the inductance of reactors
22	Insulation Resistance Tester	RD3215E	To measure the insulation resistance, absorption ratio, polarization index
23	Grounding Resistance Tester	RD3000B	To conduct grounding resistance and soil resistivity test
24	Grounding Grid Resistance Tester	RDWR-5A	A special instrument for measuring the grounding resistance of grounding grid and the grounding continuity between the grounding points

3	Insulating Oil and SF6 GasTest Equipment		
1	Insulating Oil Dielectric Strength Tester	RDJJH-100kV	Fully automatically to conduct breakdown and withstand voltage test of the insulating oil
2	Insulating Oil Dielectric Loss Tester	RDJS-610J	To measure the dielectric loss and volume resistivity of the insulating oil
3	Insulating Oil Micro Water Tester	RDKF-106J	To measure the Micro-water content of insulating oil
4	Intelligent Micro Water Tester	RDWS-142	To measure micro water content in SF6 gas
5	SF_6 Gas Purity Tester	RDCD-706	To test the purity of SF6 gas
6	SF_6 Decomposition Products Tester	RDFJ-708B	To measure the content of SO_2, H_2S, CO and HF resulting from the decomposition of SF_6
7	SF_6 Gas Leak Detector	RDWG-III	To detect the welded joints and the gas pipeline joints of the sealed gas chamber
8	SF_6 Density Relay Tester	RDMJ-711	To verify the action accuracy of SF_6 density relay
9	SF_6 Gas Recovery and Purification	RDQH-60/200	To recover and purify SF_6 gas in the equipment gas chamber
10	SF_6 Vacuum Charging Device 抽真空充气装置	RDQC-150	To vacuum the gas chamber of the equipment
4	Common Instruments		
1	Single Phase Voltage Regulator	TDGC2-3	To regulate AC single-phase 0~250V voltage
2	Three Phase Voltage Regulator	TSGC2-9	To regulate AC three-phase 0~380V voltage
3	Digital clamp meter	UT205	To measure conventional electrical parameter
4	Earth Rod, Electroscope		To perform safety protection and electrical measurement
5	Digital Multimeter	UT53	To measure conventional electrical parameter
6	Phase Detector	RDXZ-2	To indicate the sequence of the phase of three-phase AC power supply
7	Triple-clamp Digital Phase Voltammeter	RDML-12A	To inspect the current and voltage of a circuit
8	Infrared Thermometer	UT300	To measure the temperature of environment and sample

COMMON TEST EQUIPMENT OF POWER PLANT

No	Equipment Name	Specification and Mode	Purpose
1	Generator Test Equipment		
1	Power Frequency Series Resonant Test System	RDXZL-800kVA/50kV	To conduct power frequency AC withstand voltage test of generator
2	Water Cooled Generator DC Withstand Voltage Tester	RDZGS-80/300	To conduct leakage current and DC withstand voltage test of water-cooled generator
3	Water Cooled Generator Insulation Resistance Tester	RD3205S	To conduct insulation resistance measurement test of water-cooled generators
4	Generator Rotor AC Impedance Tester	RD-605	To measure AC impedance and test characteristic curve under static generator rotor winding
5	Generator Surface Potential Tester	RDFV-II	To check the insulation quality of the ends by measuring the surface potential of the generator ends
2	HV Test Equipment		
1	DC High Voltage Generator	RDZG-350/5	To conduct DC withstand voltage test of power transformers, cables and other equipment; to test DC characteristics of zinc oxide lightning arrester
2	Water Cooled Generator DC Withstand Voltage Tester	RDXZ-2400kVA/800kV	To conduct AC withstand voltage test of 500kV and below substation CT, PT, circuit breaker, disconnector, wall bushing, pillar insulator, etc.
3	Power Frequency Withstand Voltage Tester	RDYD-10kVA/100kV	To conduct the withstand voltage test of 35kV switch, PT, CT and other electrical equipment
4	Power Frequency Withstand Voltage Tester	RDYD-5kVA/50kV	To test the voltage resistance of 10kV and below switches, PT, CT and other electrical equipment
5	Multiple Frequency Voltage Generator	RDDF-10kVA	To test Inductive withstand voltage of transformers and instrument transformers
6	AC/DC High Voltage Divider AC/DC	RDCF-200kV	To measure test voltage
3	Electrical Characteristics Test Equipment		
1	Transformer Tan Delta Tester	RD6000A	To measure the capacitance or dielectric loss of transformer, PT and CT.
2	Transformer Turn Ratio Tester	RDB-II	To measure the ratio and group of transformer and voltage transformer
3	Transformer Load and No Load Tester	RDBK-IV	To measure transformer short-circuit impedance and load loss, no-load current and no-load loss
4	Transformer On-load Tap-changer Analyzer	RDKC-2000	Accurately to measure parameters such as transition time, transition waveform, transition resistance and other parameters of on-load tap-changers

5	Frequency Sweeping Response Analyzer	RDRB-IV	To conduct transformer winding deformation measurement
6	Transformer DC Resistance Tester	RDZR-40A	To measure the resistance of transformer and instrument transformer windings
7	Partial Discharge Tester	RDPDD-104H	To conduct partial discharge measurement and analysis of electrical equipment
8	Circuit Breaker Analyzer	RDGC-8A	To measure the operating time, simultaneity, bouncing process, opening distance, stroke, and the open-close speed of the circuit breaker
9	Loop Resistance Tester	RDHL-200A	To measure the circuit resistance of the closed Circuit breaker
10	Vacuum Switch Vacuum Tester	RDZK-IV	To measure the vacuum degree of the vacuum circuit breaker
11	Microcomputer Relay Protection Tester	RDJB-1600M	To perform comprehensive protection detection: voltage protection, current protection, differential protection, low cycle protection, whole set of tests, etc.
12	Transformer Comprehensive Characteristic Tester	RDHG-D	To test the 5% or 10% error curve, transformation ratio and polarity of CT as to verify whether the requirements for the protective device are met
13	Intelligent Primary Current Injector	RDSL-82-6000A	To test the primary current of the equipment
14	Cable Fault Testing System	RDCD-II	To test the fault point of the cable and to pinpoint it precisely
15	High Voltage Wireless Phase Detector	RDF-500	Wirelessly to detect the phase angle, frequency and other parameters of high-voltage lines
16	Metal Oxide Surge Arrester Analyzer	RDYZ-302	To measure the full current, resistive current and harmonic current of zinc oxide arrester and other parameters
17	Arrester Counter Tester	RDYZ -IV	To test the action of lightning arrester discharge counters
18	Battery Discharge Tester	RDBT-3018D	Mainly to test discharge of lead-acid battery packs for backup power supply in China Telecom, China Mobile,China Unicom, and power DC industries
19	Battery Internal Resistance And Capacity Tester	RDBT-8604	To test online the battery voltage, internal resistance, connection bar resistance and other important battery parameters
20	Portable DC Grounding Fault Tester	RDBT-8605	To find out grounding fault for battery packs
21	Capacitance And Inductance Tester	RDLC-503	To measure the capacitance of capacitors and the inductance of reactors
22	Insulation Resistance Tester	RD3215E	To measure the insulation resistance, absorption ratio, polarization index
23	Grounding Resistance Tester	RD3000B	To conduct grounding resistance and soil resistivity test
24	Grounding Grid Resistance Tester	RDWR-5A	A special instrument for measuring the grounding resistance of grounding grid and the grounding continuity between the grounding points

4	Insulating Oil and SF6 GasTest Equipment		
1	Transformer Oil Gas Chromatography	RDSP-3401	To measure gases and their corresponding content in transformer oil
2	Insulating Oil Dielectric Strength Tester	RDJJH-100kV	Fully automatically to conduct breakdown and withstand voltage test of the insulating oil
3	Insulating Oil Dielectric Loss Tester	RDJS-610J	To measure the dielectric loss and volume resistivity of the insulating oil
4	Insulating Oil Micro Water Tester	RDKF-106J	To measure the Micro-water content of insulating oil
5	Acid Value Tester	RDSZ-3003	To measure the acid value of insulating oil
6	Insulating Oil Closed Flash Point Tester	RDBS-3001	To test the flash point of suspended solids in the insulating oil under test conditions
7	Double –stage High Efficiency Vacuum Oil Purifier	ZYD-200	To purify the insulating oil
8	Intelligent Micro Water Tester	RDWS-142	To measure micro water content in SF6 gas
9	SF6 Gas Purity Tester	RDCD-706	To test the purity of SF6 ga
10	SF6 Decomposition Products Tester	RDFJ-708B	To measure the content of SO2, H2S, CO and HF resulting from the decomposition of SF6
11	SF6 Gas Leak Detector	RDWG-III	To detect the welded joints and the gas pipeline joints of the sealed gas chamber
12	SF6 Density Relay Tester	RDMJ-711	To verify the action accuracy of SF6 density relay
13	SF6 Gas Recovery and Purification	RDQH-60/200	To recover and purify SF6 gas in the equipment gas chamber
14	SF6 Vacuum Charging Device	RDQC-150	To vacuum the gas chamber of the equipment
5	Common Instruments		
1	Single Phase Voltage Regulator	TDGC2-3	To regulate AC single-phase 0~250V voltage
2	Three Phase Voltage Regulator	TSGC2-9	To regulate AC three-phase 0~380V voltage
3	Digital clamp meter	UT205	To measure conventional electrical parameter
4	Earth Rod, Electroscope		To perform safety protection and electrical measurement
5	Digital Multimeter	UT53	To measure conventional electrical parameter
6	Phase Detector	RDXZ-2	To indicate the sequence of the phase of three-phase AC power supply
7	Triple-clamp Digital Phase Voltammeter	RDML-12A	To inspect the current and voltage of a circuit
8	Infrared Thermometer	UT300	To measure the temperature of environment and sample