



HIGH VOLTAGE TESTERS



## COMPANY INTRODUCTION

Elec is a well-known brand of a International Group, focusing on the R&D and manufacturing products for high-voltage test primary equipment and secondary equipment. Products mainly include handheld, trolley-carry, transformer winding series, portable withstand voltage test, and training series.

With its leading technology, intelligence, advanced, and portable product characteristics, it has quickly become popularized and unanimously recognized by customers.

Provide professional technical solutions for the operation and test of various main equipment, and escort the safe operation of the power grid.

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The Most Professional Manufacturer of High Voltage Testers in China

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## HLR-100 Handheld Loop Resistance Tester

### Description

HLR-100 is a brand new generation of hand-held loop resistance tester. It is small in size and light in weight, only 1.5kg, which can be operated by one person, and the field test is simple and fast. The integrated and user-friendly design of the wire box is easy to carry, and the test accessories are no longer easy to be lost. It is an ideal device for the power supply department to measure the contact resistance of the switch contacts and other resistive test products.

\* Technical data can be found in page 20.

### Features

- Appearance design: handheld, light and portable
- Lightweight: host weight is 1.5kg
- Portable: handheld design
- Tester and wire in one case: test accessories and wires are not easy to be lost



### Five innovative technologies



### Main parameter

|                |       |       |        |        |
|----------------|-------|-------|--------|--------|
| Output current | 100A  | 80A   | 50A    | 30A    |
| Testing range  | 0-5mΩ | 0-8mΩ | 0-10mΩ | 0-20mΩ |

## HTRT-10 Handheld Transformation Turns Ratio Tester

### Description

HTRT-10 is a brand new generation of handheld transformer turns ratio tester. It is small in size and light in weight, only 1.5kg. It is more convenient and faster to operate on-site testing by one person. It is mainly used for transformer turns ratio group test, PT and CT ratio polarity test, with fast test speed and high accuracy.

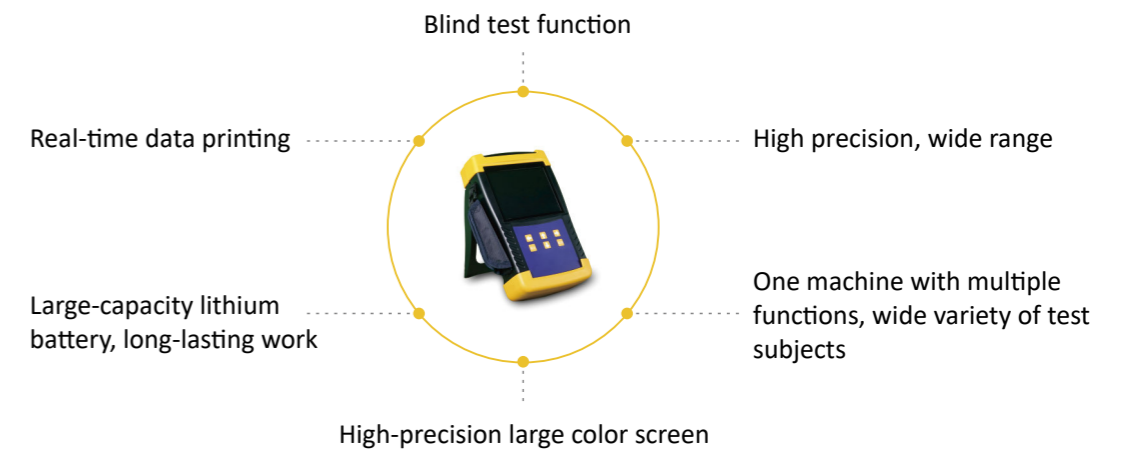
\* Technical data can be found in page 20.

### Features

- Appearance design: handheld, light and portable
- Lightweight: host weight is 1.5kg
- Portable: handheld design
- Tester and wire in one case: test accessories and wires are not easy to be lost



### Six innovative technologies



### Main parameter

|               |                                  |
|---------------|----------------------------------|
| Testing range | 0.9~10000                        |
| Accuracy      | ≤ 500, ±(0.001+2 digits)         |
|               | ≥ 500, ≤ 3000, ±(0.002+2 digits) |
|               | > 3000, ±(0.003+2 digits)        |

## HCCT-10 Handheld Capacitance Current Tester

### Description

HCCT-10 is a new generation of handheld capacitance current tester. It combines two test methods of PT open triangle and neutral point. Handheld design and weighs 1.5kg, which is easy to carry and test on site. For the built-in transformer neutral point and compensation capacitor neutral point of the 4PT connection mode and the PT opening triangle, weak inter-frequency test signals are injected, which can test the capacitance current data, an essential tool for the operation and maintenance of the power department.

\* Technical data can be found in page 21.

### Features

- Appearance design: handheld, light and portable
- Lightweight: host weight is 1.5kg
- Portable: handheld design
- Tester and wire in one case: test accessories and wires are not easy to be lost



### Six innovative technologies

Voltage level selection continuously adjustable: 0.1kv-99.9kv

Data real-time printing

High precision, wide range

Large-capacity lithium battery, long-lasting work

Neutral point method and open triangle method in one

High-precision large color screen



### Main parameter

|                             |                                      |
|-----------------------------|--------------------------------------|
| Measuring capacitance range | 0.3 $\mu$ F~200 $\mu$ F              |
| Test current range          | 1A~400A                              |
| Voltage level               | 0.1kV-99.9kV continuously adjustable |

## HZOA-20 Handheld Zinc Oxide Arrester Resistive Current Tester

### Description

HZOA-20 is a new generation of handheld zinc oxide arrester resistive current tester used to test the electrical performance of each phase of metal zinc oxide arrester (MOA). This instrument is suitable for on-site live test of zinc oxide arresters of various voltage levels, as well as delivery and acceptance tests performed by the laboratory under power failure. By measuring parameters such as full current and resistive current, dangerous defects such as moisture inside the zinc oxide arrester and valve aging can be found in time.

\* Technical data can be found in page 21.

### Features

- Appearance design: handheld, light and portable
- Lightweight: host weight is 1.5kg
- Portable: handheld design
- Tester and wire in one case: test accessories and wires are not easy to be lost
- Voltage collector: small and portable, transmits three-phase voltage in real time.



### Six innovative technologies

Diversified test modes

Data real-time printing

High precision, wide range

Large-capacity lithium battery, long-lasting work

Wide range of full current test

High-precision large color screen



### Main parameter

|                               |                                     |
|-------------------------------|-------------------------------------|
| Full current measure range    | 0~20mA, 50Hz/60Hz                   |
| Reference voltage input range | 25V~250V effective value, 50Hz/60Hz |

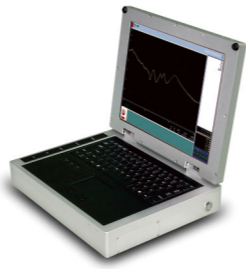


**WDT-200 Transformer Winding Deformation Tester**

**Description**

The new generation of WDT-200 transformer winding deformation tester adopts all-aluminum CNC precision carving design, frosted metal process, highlighting the metal texture, and integrated military industrial control computer, making test easier and faster. The test wires, instrument, and outer box are integrated, and the trolley case design is convenient to carry, test accessories are never easy to be lost. The frequency sweep range is up to 15MHz, test accuracy is higher, and anti-interference ability is stronger. One machine in hand, worry-free testing, an essential instrument for power transformer winding testing.

\* Technical data can be found in page 22.



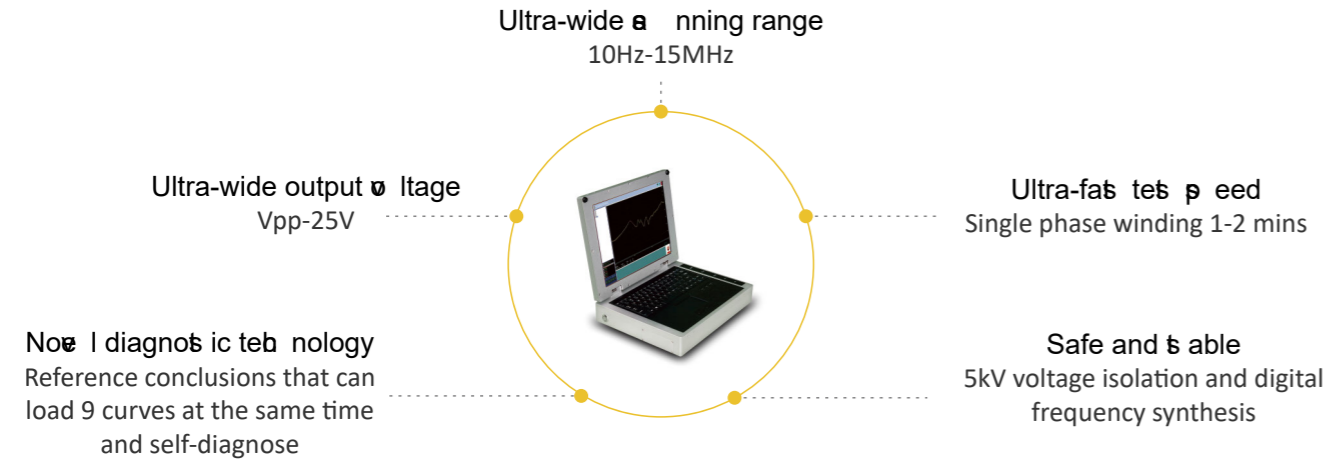
**Features**

- American PELICAN trolley case: easy to carry, IP67 protection grade
- Tester and wire in one case: test accessories and wires are not easy to be lost
- Built-in layout: reasonable and beautiful
- Frosted metal process, highlighting the metal texture



Load-bearing over 25 kg, strong and durable

**Five innovative technologies**



**DLT-800 Color Screen Smart Anti-Interference Dielectric Loss Tester**

**Description**

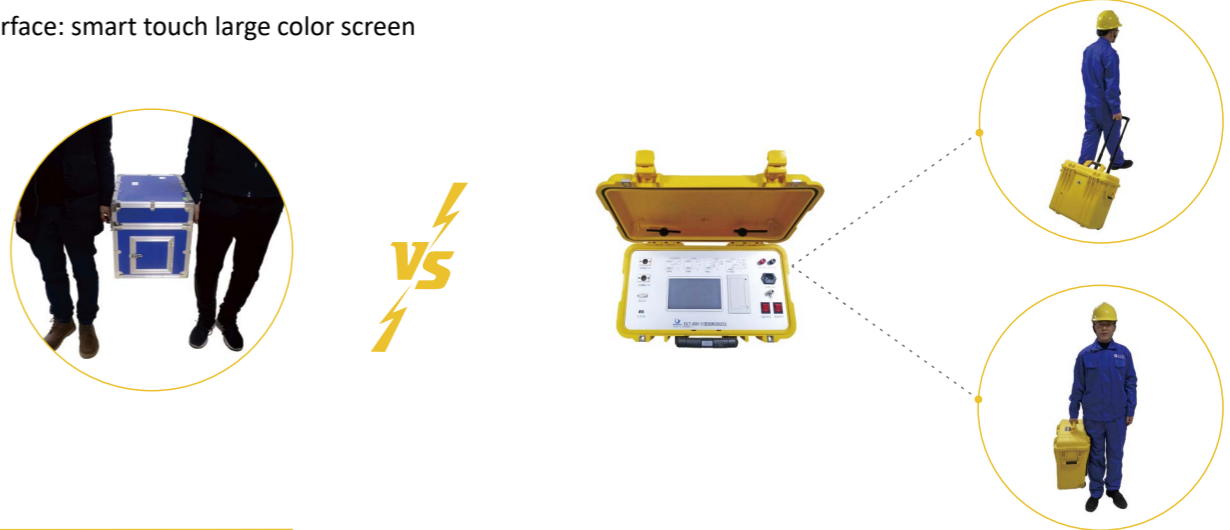
The DLT-800 color screen smart dielectric loss tester is the latest new generation of intelligent dielectric loss products. It adopts the integrated design of the American PELICAN trolley case, which is convenient for on-site move, intelligent touch LCD large color screen, automatic digital display, and simpler operation. It breaks through the traditional bridge measurement method, adopts variable frequency power supply technology, and uses modern electronic technology for automatic frequency conversion, analog/digital conversion and data calculation. It has strong anti-interference ability, fast test speed and high precision.

\* Technical data can be found in page 22.

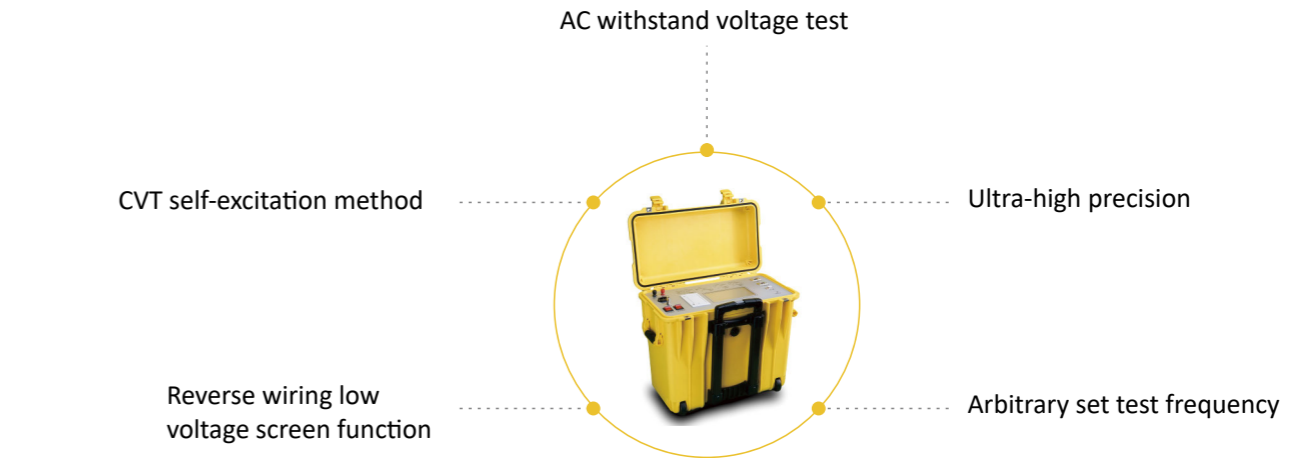


**Features**

- Appearance design: exquisite, light and portable
- Lightweight: weight of the whole machine is only 22kg
- Portable: adopt the integrated design of American PELICAN trolley case
- Interface: smart touch large color screen



**Five innovative technologies**



### ERT-600 Color Screen Intelligent Earth Grid Ground Resistance Tester

**Description**

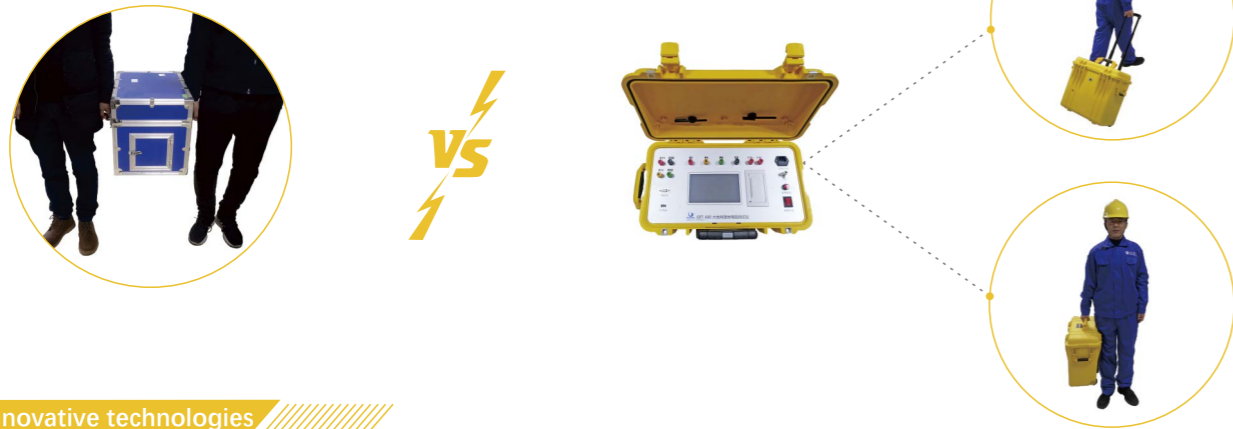
ERT-600 color screen intelligent earth grid ground resistance tester is the latest new generation of intelligent earth grid test products launched in 2020. It adopts the integrated design of the American imported trolley case, convenient on-site movement, intelligent touch LCD large color screen, and automatic digital display . The operation is simpler. The instrument adopts frequency conversion anti-interference technology and does not require high current measurement. It can measure accurate data of 50Hz in a strong interference environment of substations. It can measure ground impedance and ground resistance at the same time. Accuracy is higher. Measurement results are directly displayed and can be more realistically reflected actual characteristics of ground grid.

\* Technical data can be found in page 23.



**Features**

- Appearance design: exquisite, light and portable
- Lightweight: weight of the whole machine is only 22kg
- Portable: adopt the integrated design of American PELICAN trolley case
- Interface: smart touch large color screen



**Five innovative technologies**

Wide test range, extreme low error, 0.005Ω

Multiple protection, ensure equipment and people safe

Arbitrary set test frequency



Powerful function, many test contents: Ground resistance, soil resistivity, ground connection

New generation of frequency conversion anti-interference technology, ensure test accuracy

### HCG-1000 Pro Automatic High Current Generator

**Description**

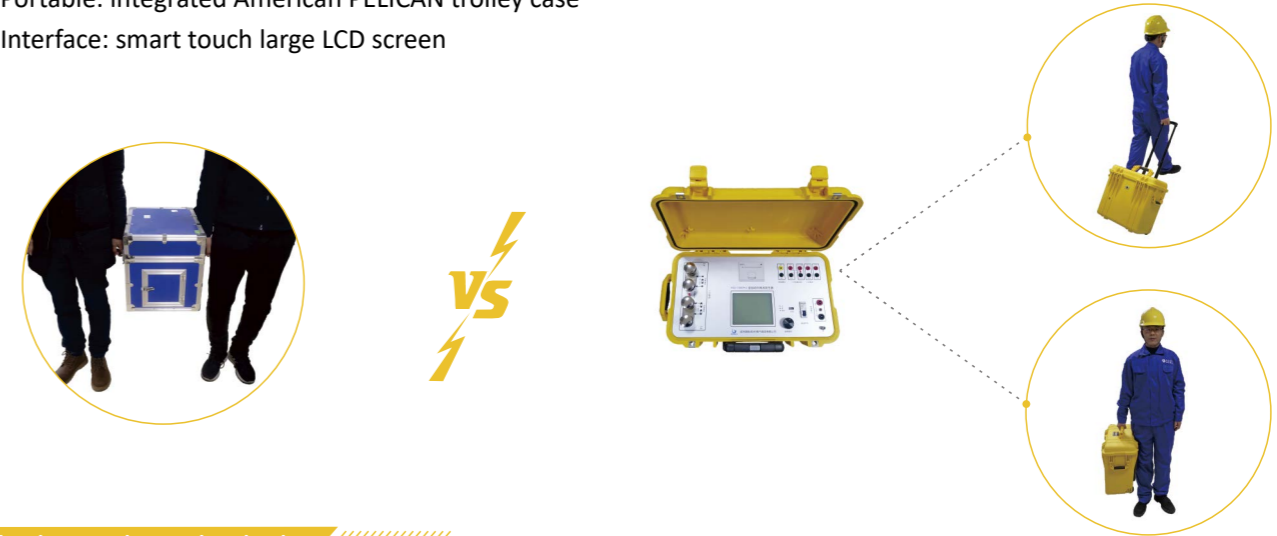
The HCG-1000 Pro new generation automatic high current generator is the latest intelligent product. It adopts integrated design of American trolley case, integrates CT transformation ratio polarity test, secondary load test, fixed value, channel, and time contact. Powerful function, simple operation, test result generated intelligently with one key. The trolley case is convenient to move on site. It can automatically collect, analyze, store and print the test data. Test report has accurate test time and printing time, data can be exported and saved as the original test data. With the advance of large output capacity, multi-functional and highly intelligent, it becomes an indispensable tool for large current tests such as CT transformation ratio of power systems and contact resistance.

\* Technical data can be found in page 23.



**Features**

- Appearance design: light, delicate, portable
- Portable: integrated American PELICAN trolley case
- Interface: smart touch large LCD screen



**Five innovative technologies**

Multiple protection, protect equipment and people

Fully automatic synchronous test, synchronous test data and circuit breaker action time

Multi-function, meet various tests for 6 groups of CT ratio polarity



High brightness large LCD screen, still clearly visible in strong sunlight

Automatic current increase, better than manual increase type in the market

### TCT-200C Intelligent CT PT Comprehensive Characteristic Tester

#### Description

TCT-200C is the latest new generation of intelligent transformer comprehensive test product. It adopts the integrated design of the American trolley case, convenient to move on site. It integrates functions of CT volt-ampere characteristic test, PT volt-ampere characteristic test, CT transformation ratio polarity test, PT transformation ratio polarity test, secondary load test, etc. It has powerful functions, simple testing, and one-key intelligent test results. With the large output capacity, multi-function and high intelligence, it becomes an indispensable tool for transformer characteristic test of power system.

\* Technical data can be found in page 24.

#### Features

- Appearance design: light, delicate, portable
- Portable: integrated American PELICAN trolley case
- Interface: smart touch large LCD screen



#### Five innovative technologies

Multiple protection, protect equipment and people

Fully automatic synchronous test, meet requirement of 6 groups of CT secondary winding ratio polarity tests completed at one time

A multi-purpose tester, compatible with the function of large current generator



High brightness large LCD screen, still clearly visible in strong sunlight

Volt-ampere test value set arbitrarily, test curves and data displayed in real time

### HVS-12 High Voltage Switch Characteristic Tester

#### Description

The HVS-12 high voltage switch characteristic tester adopts integrated American PELICAN safety case of IP67. It has 12 measurement ports and one independent non-pulse DC power supply, which can supply power for on-site switch control system. The tester has user-defined functions to meet different test requirements of high-voltage switch of different voltage levels. It has various data and waveforms such as closing and opening time, synchronization, bounce time, times, auto-reclosing, stroke, speed, current, action voltage, etc. At the same time, it can also provide accurate characteristic curves and corresponding analysis calculations to ensure more testing intuitive and accurate.

\* Technical data can be found in page 24-25.

#### Features

- Appearance design: American PELICAN trolley case, IP67 grade
- Processing design: metal drawing panel, ultra-light, ultra-anticorrosive titanium alloy screw to highlight quality
- Color screen with high brightness: still visible in strong sunlight
- Customized accessory housing, greatly reducing wear and tear on core accessories



Customized accessory housing

#### Four innovative technologies

Built-in isolation digital adjustable DC power supply, short circuit protection, high safety

Wide test range, suitable for all kinds of high voltage grade circuit breakers and all kinds of low voltage relay



Strong anti-interference ability, resist 550KV substation field static interference

Fine test, 10kHz high-speed sampling, time resolution 0.1ms, test time up to 20s

## TCT-200F Frequency Conversion Method CT PT Comprehensive Characteristic Tester

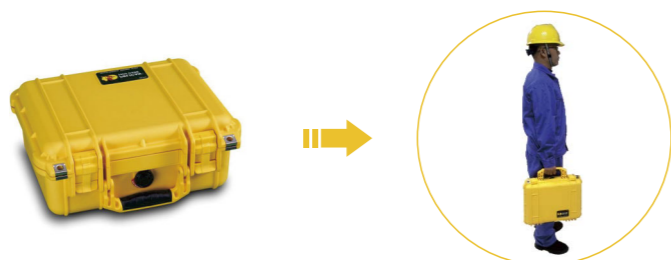
### Description

TCT-200F transformer comprehensive characteristic tester is a new generation of innovative CT, PT comprehensive tester developed on the basis of traditional transformer volt-ampere characteristic variable ratio polarity comprehensive tester for voltage regulator, booster and current booster. The equipment adopts high-performance DSP and FPGA technology, metal wire drawing panel design, ultra-light, high-strength, ultra-corrosive titanium alloy screws to ensure product quality and stability. With the advance of high degree of automation, frequency conversion principle and high test efficiency, it becomes an indispensable weapon for the power industry to test the characteristics of transformers.

\* Technical data can be found in page 25.

### Features

- Appearance design: light, delicate, portable
- Light: weight only 4.75KG
- Portable: integrated American PELICAN trolley case
- Delicate: imported material, metal wire drawing design, titanium alloy screw with super corrosion resistance
- Interface: large LCD screen with high brightness, clearly visible in strong sunlight



### Five innovative technologies

Humanized interface, English dynamic graphical interface

Built-in high-power cooling system, ensure equipment safe and efficient operation

With its own intelligent analysis system, test data saved and analyzed in time.



Advanced frequency conversion method, using advanced low voltage, low current can complete the test

One-button intelligent operation, almost complete all the tests

## CAI-3 Pro Capacitance Inductance Tester

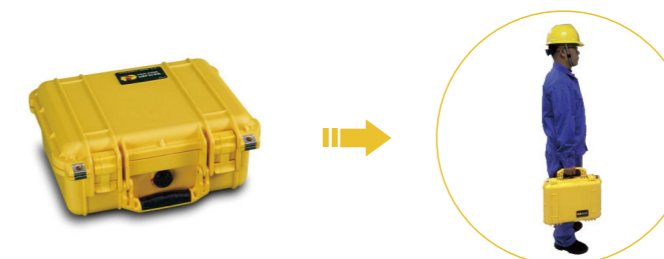
### Description

CAI-3 Pro adopts high-precision, large-opening clamp current transformer for current measurement. It uses pilot frequency anti-interference power output, high test accuracy and stable data. It has strong ability to carry out the test in a strong magnetic field environment without affecting accuracy. Meanwhile, it has the function of three-phase capacitor test, which is simpler and faster for one-key measurement of three-phase capacitor group with different connection modes.

\* Technical data can be found in page 26.

### Features

- Appearance design: light, delicate, portable
- Light: weight only 4.75KG
- Portable: integrated design integrated American PELICAN trolley case
- Delicate: imported material, metal wire drawing design, titanium alloy screw with super corrosion resistance
- Interface: large LCD screen with high brightness, clearly visible in strong sunlight



### Six innovative technologies

Super safety, three-phase output short circuit at the same time won't damage the instrument

With soft start, soft stop function, greatly reduce impact on test products

The unique capacitance inductance tester containing power quality analysis



Pilot frequency source technology, higher anti-interference ability, higher test accuracy

Three - phase test, analysis, greatly improve field test efficiency

Large capacity lithium battery, long-time work



## ZOA-200 Zinc Oxide Arrester Resistive Current Tester

### Description

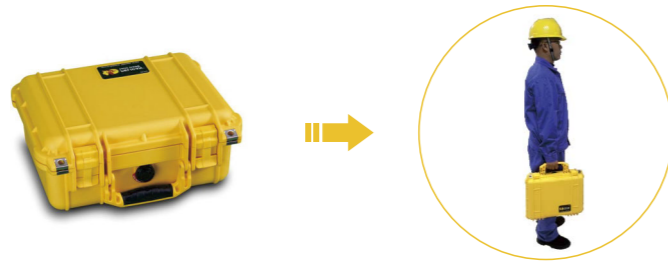
ZOA-200 Zinc oxide arrester resistive current tester is used to test the electrical properties of Metal Zinc Oxide Arrester (MOA). This instrument is suitable for field live test of zinc oxide arrester of different voltage grades, delivery and acceptance test of the laboratory under condition of power off. By measuring parameters such as full current and resistive current, the dangerous defects such as damp inside insulation and valve plate aging can be found in time.

\* Technical data can be found in page 26.



### Features

- Appearance design: American PELICAN safety Case, IP67
- Color screen with high brightness: still visible in strong sunlight
- Processing design: metal drawing panel, ultra-light, ultra-anticorrosive titanium alloy screw to highlight quality
- Customized accessory housing, reducing wear and tear on core accessories



### Six innovative technologies

Real three-phase simultaneous measurement of zinc oxide parameters, and automatically compensate phase interference

Humanized interface display, for some important operation and parameter Settings, display its prompt message



Double digital isolation and special Induction Plate Method make the test more safe and reliable

Intelligent power management system, backlight automatic adjustment, long time idle

Local display and phase sequence detection

Built-in large capacity lithium battery, no worry for on-site power

## TRT-20 Transformer Turns Ratio Tester

### Description

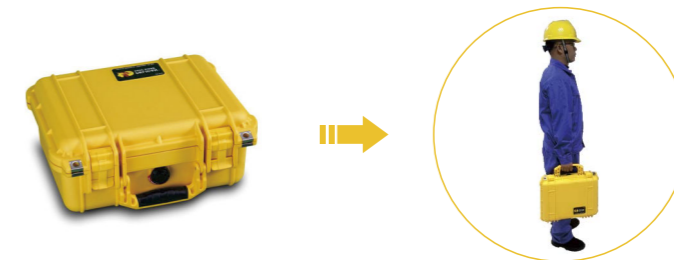
TRT-20 Transformer Turns Ratio Tester, adopts American IP67 Pelican case, light and portable. It is mainly used in transformer ratio group test, PT, CT polarity test, which overcomes the shortcomings of traditional transformer bridge test. Test speed is fast, high accuracy. An essential tool for power system and transformer manufacturers.

\* Technical data can be found in page 27.



### Features

- Appearance design: American PELICAN safety Case, IP67
- Color screen with high brightness: still visible in strong sunlight
- Processing design: metal drawing panel, ultra-light, ultra-anticorrosive titanium alloy screw to highlight quality
- Customized accessory housing greatly, reducing wear and tear on core accessories



### Four innovative technologies

Wide range, high precision, up to 0.1%



The first transformer ratio tester in history with blind test function

Application field is wider and an added function of CT turns ratio polarity test

With functions of reverse connection protection, output short circuit protection and other protection

## STRT-100 Pro Special Transformer Turn Ratio Tester

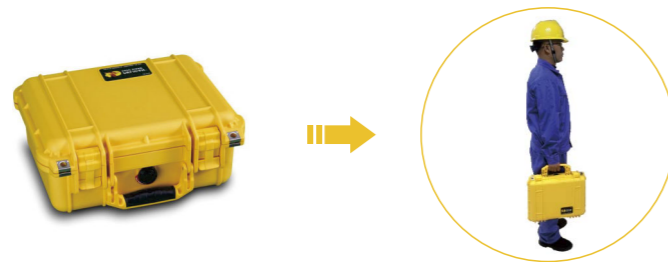
### Description

STRT-100 Pro Special Transformer Turn Ratio Tester, the appearance adopts American IP67 PELICAN case, with metal brushed panel, ultra-light and high-strength titanium alloy screws with extremely high corrosion resistance. It can be used for 3-phase transformer test of power system, especially suitable for testing Z-winding transformers, rectifier transformers, and balance transformers. Because of its light weight, portable and high detecting accuracy, it is an indispensable equipment for power systems, transformer manufacturers and circuit power systems for transformer ratio, winding group, polarity, and angle testing.

\* Technical data can be found in page 27.

### Features

- Appearance design: American PELICAN safety Case, IP67
- Color screen with high brightness: still visible in strong sunlight
- Processing design: metal drawing panel, ultra-light, ultra-anticorrosive titanium alloy screw to highlight quality
- Customized accessory housing, greatly reducing wear and tear on core accessories



### Three innovative technologies

Built-in large capacity lithium battery, no trouble of getting electricity on site

With over-current protection and function of checking wiring, it can protect the test safety



Wide test range, compatible with special transformers such as rectifier transformer, Scott, Inverse Scott, balance transformer, etc.

## TC-1000 Transformer Capacity Characteristic Tester

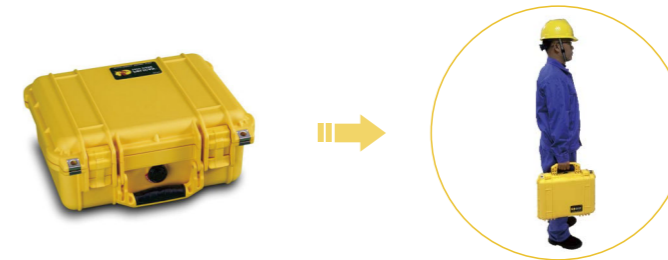
### Description

TC-1000 adopts American IP67 PELICAN case, small size, light weight, powerful function and simple operation. Specially used for measuring the capacity of distribution power transformers, and measuring transformer no-load and short-circuit losses, and it has a harmonic analysis function to facilitate analysis of on-site power grid quality. The instrument circuit has a sophisticated design and a unique idea, which uses advanced six-channel synchronous AC sampling and digital signal processing technology, so that its performance is superior, the data is accurate and reliable, and it can completely replace the traditional instrument test method, it can display and record all the measurement data that users care about, and can be used as a high-precision communication indicator on site.

\* Technical data can be found in page 28.

### Features

- Appearance design: American PELICAN safety Case, IP67
- Color screen with high brightness: still visible in strong sunlight
- Processing design: metal drawing panel, ultra-light, ultra-anticorrosive titanium alloy screw to highlight quality
- Customized accessory housing, greatly reducing wear and tear on core accessories



### Five innovative technologies

A unique preliminary judgment function for core model of oil-immersed or dry-type distribution transformer

Soft start and soft stop functions, reduce impact on the test products

Five functions in one, testing capacity, zero-sequence impedance, load loss, no-load loss, and harmonic analysis



Superior performance, unique current, voltage, frequency, and temperature correction

Built-in large capacity lithium battery, no trouble of getting electricity on site

## DHVT Series DC High Voltage Generator

### Description

DHVT Series DC high voltage generator, suitable for electric power companies and enterprise power department to conduct DC withstand voltage test and DC leakage current test on zinc oxide arresters, power cables, generators, transformers, circuit breakers, etc. which is a necessary test instrument for high voltage tests.

\* Technical data can be found in page 28.

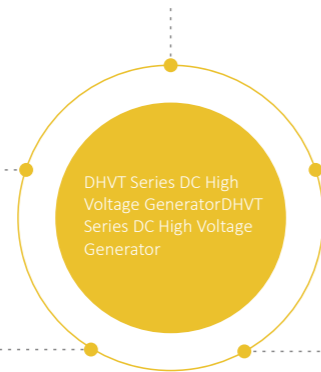


### Five innovative technologies

Super high voltage stability, and voltage closed loop large feedback is adopted

Ultra-safety, with reliable fast protection circuit, no damage when high voltage is continuously discharged to ground

Good electrical performance, using latest PWM pulse width modulation technology and high-power IGBT devices



Ultra-lightweight, adopt intermediate frequency voltage double 35-50kHz inverter frequency and PWM pulse width modulation, with small ripple factor

Strong anti-interference performance, stable and reliable, fully shielded chassis and main components

### Regular selection

| Parameter Model | Output voltage (kV) | Output current (mA) | Recharging current (mA) | Output power (W) | Control case weight (kg) | Doubler cylinder height (mm) |
|-----------------|---------------------|---------------------|-------------------------|------------------|--------------------------|------------------------------|
| DHVT60/2        | 60                  | 2                   | 3                       | 120              | 3                        | φ80×470                      |
| DHVT60/5        | 60                  | 5                   | 7.5                     | 300              | 3                        | φ80×470                      |
| DHVT120/2       | 120                 | 2                   | 3                       | 240              | 4                        | φ80×640                      |
| DHVT120/3       | 120                 | 3                   | 4.5                     | 360              | 4                        | φ80×640                      |
| DHVT120/5       | 120                 | 5                   | 7.5                     | 600              | 4                        | φ80×640                      |
| DHVT200/2       | 200                 | 2                   | 3                       | 400              | 4.5                      | Φ110×770                     |
| DHVT200/3       | 200                 | 3                   | 4.5                     | 600              | 5                        | Φ110×770                     |
| DHVT200/5       | 200                 | 5                   | 7.5                     | 1000             | 6                        | Φ110×770                     |
| DHVT200/400/3   | 200/400             | 5                   | 7.5                     | 2000             | 8.5                      | Φ110×1850                    |

★ The specifications shown above are only common specifications, output voltage and output current can be customized according to requirements

## ESR Series Variable Frequency Resonant Test Sets

### Description

The ESR Series adopts principle of IGBT frequency conversion, voltage and frequency are more stable. It is suitable for AC withstand voltage test of electrical equipment of different voltage levels in the power system. According to the test scope and test requirements of users, customized solutions are designed to meet the test requirements of different users and different test samples.



### Features

- Frequency conversion source: High-quality engineering plastic case, beautiful, durable and portable



10kW-20kW

- Frequency conversion source: trolley case design, convenient and portable, reducing burden



30kW-40kW

- Reactor: small size, light weight, portable, double tower type, double wire package. Dry epoxy integrated casting, strong and durable
- Excitation transformer: humanized handle, portable, small size, light weight, beautiful. Dry epoxy integrated casting, strong and durable

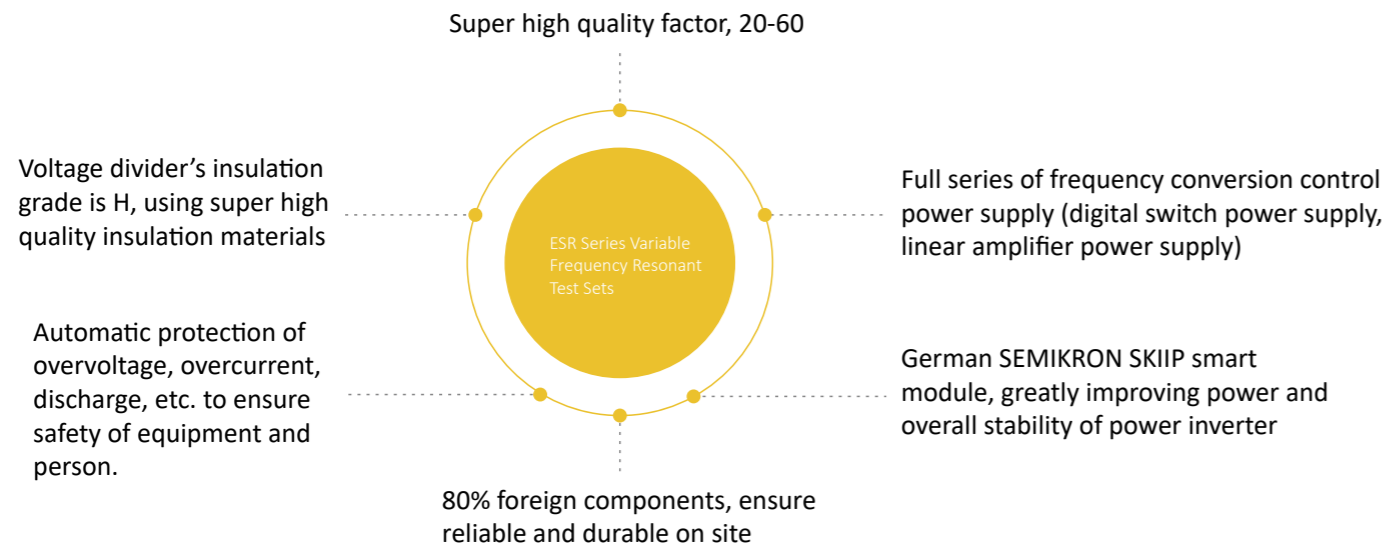




Application range

10kV, 27.5kV, 35kV, 66kV, 110kV, 220kV and other main transformer power frequency AC withstand voltage test; 110kV, 220kV GIS switch and CT transformer AC withstand voltage test; AC withstand voltage test of 10kV, 27.5kV, 35kV, 66kV, 110kV, 220kV, etc.; Power frequency withstand voltage test of 10kV, 27.5kV, 35kV, 66kV, 110kV, 220kV and other power equipment such as circuit breakers, disconnectors, bushings, insulators, generators, etc.

Six innovative technologies



Typical solution configuration

| Regular model | Rated Capacity | The main purpose   |
|---------------|----------------|--|
| ESR 104/26    | 104kVA         | 10KV cable, 400mm <sup>2</sup> , 2kM   |
| ESR 640/52    | 640kVA         | 10KV cable, 400mm <sup>2</sup> , 10kM; 35KV cable, 400mm <sup>2</sup> , 5kM  |
| ESR 2340/400  | 2340kVA        | 110KV cable, 630mm <sup>2</sup> , 3kM; 220KV cable, 630mm <sup>2</sup> , 1kM; 220KV, 80000KVA AC withstand voltage of main transformer |

★ Model and configuration to be set according to customers' voltage level, length, cross-section(or voltage level of the transformer, capacity or GIS voltage level and intervals). It can be customized according to customer's requirements.

HLR-100 Handheld Loop Resistance Tester

|                              |   |       |        |        |
|------------------------------|---|-------|--------|--------|
| Appearance Design            | Imported high-strength materials, handheld, light and portable  |       |        |        |
| Tester and wires in one case | The main unit and the wire box are integrated, easy to carry, and the test accessories are not easy to lost |       |        |        |
| Screen Display               | Large high-brightness color LCD screen, intuitive display, still clearly visible in strong sunlight         |       |        |        |
| Output Current               | 100A  | 80A   | 50A    | 30A    |
| Measuring Range              | 0-5mΩ   | 0-8mΩ | 0-10mΩ | 0-20mΩ |
| Accuracy                     | ± (0.005+1uΩ)   |       |        |        |
| Resolution                   | 0.1uΩ   |       |        |        |
| Display Digits               | 4 1/2   |       |        |        |
| Input Voltage                | Max 5V  |       |        |        |
| Measure Time                 | High-speed OR 10-60seconds optional   |       |        |        |
| Store and Print              | Equipped with an external printer for easy data printing, data can be stored in real time                   |       |        |        |
| Power Supply                 | Built-in large-capacity lithium battery, one charge, can continuously test more than 800 times              |       |        |        |
| Dimension                    | 246*156*62mm  |       |        |        |
| Weight                       | 1.5kg   |       |        |        |

HTRT-10 Handheld Transformation Turns Ratio Tester

|                              |   |                           |                    |
|------------------------------|---|---------------------------|--------------------|
| Appearance Design            | Imported high-strength materials, handheld, light and portable  |                           |                    |
| Tester and wires in one case | The main unit and the wire box are integrated, easy to carry, and the test accessories are not easy to lost |                           |                    |
| Screen Display               | Large high-brightness color LCD screen, intuitive display, still clearly visible in strong sunlight         |                           |                    |
| Measuring Range              | 0.9-10000   |                           |                    |
| Accuracy                     | ≤ 500, ±(0.001+2)   | ≥ 500, ≤ 3000, ±(0.002+2) | > 3000, ±(0.003+2) |
| Resolution                   | 0.9-9.9999 (0.0001)   | 100-999.99 (0.01)         | 10-99.999 (0.001)  |
|                              | 1000-9999.9 (0.1)   | ≥10000 (1)                |                    |
| Store and Print              | Built-in printer for easy data printing and real-time data storage  |                           |                    |
| Power Supply                 | Built-in large-capacity lithium battery, one charge, can continuously test more than 200 times              |                           |                    |
| Dimension                    | 246*156*62mm  |                           |                    |
| Weight                       | 1.5kg   |                           |                    |

### HCCT-10 Handheld Capacitance Current Tester

|                                       |   |                                      |
|---------------------------------------|---|--------------------------------------|
| Appearance Design                     | Imported high-strength materials, handheld, light and portable  |                                      |
| Tester and wires in one case          | The main unit and the wire box are integrated, easy to carry, and the test accessories are not easy to lose |                                      |
| Screen Display                        | Large high-brightness color LCD screen, intuitive display, still clearly visible in strong sunlight         |                                      |
| Test Method                           | Neutral Point Method and Open Triangle Method   |                                      |
| Capacitance Current Measurement       | Measuring capacitance range   | 0.3μF-200μF                          |
|                                       | Test current range  | 1A-400A                              |
|                                       | Accuracy  | ±(0.05+2)                            |
|                                       | Voltage level   | 0.1KV-99.9KV continuously adjustable |
| Zero Sequence 3U0 Voltage Measurement | Measuring Range   | 1V-100V AC 50HZ                      |
|                                       | Accuracy  | ± (0.01+10)                          |
|                                       | Resolution  | 1-9.999 (0.001) 10-99.99 (0.01)      |
| Store and Print                       | Built-in thermal printer, fast and silent, data can be stored in real time                                  |                                      |
| Power Supply                          | AC100-240VAC 0.8A, 50/60Hz  |                                      |
| Dimension                             | 246*156*62mm  |                                      |
| Weight                                | 1.5kg   |                                      |

### HZOA-20 Handheld Zinc Oxide Arrester Resistive Current Tester

|   |   |  |
|---|---|--|
| Appearance Design                             | Imported high-strength materials, handheld, light and portable  |  |
| Tester and wires in one case                  | The main unit and the wire box are integrated, easy to carry, and the test accessories are not easy to lose |  |
| Screen Display                                | Large high-brightness color LCD screen, intuitive display, still clearly visible in strong sunlight         |  |
| Full Current Measurement Range                | 0-20mA, 50Hz/60Hz   |  |
| Accuracy                                      | ± (0.05+5uA)  |  |
| Resistive current Cardinal Wave Accuracy      | ± (0.05+5uA)  |  |
| Current Harmonic Measurement Accuracy         | ± (0.1+10uA)  |  |
| Current Channel Input Resistance              | ≤2Ω   |  |
| Reference Voltage Input Range                 | 25V-250V Effective value, 50Hz/60Hz   |  |
| Reference Voltage Measurement Accuracy        | ± (0.05+0.5V)   |  |
| Reference Voltage Channel Input Resistance    | ≥1500kΩ   |  |
| Electric Field Intensity Input Range          | 30kV/m-300kV/m  |  |
| Electric Field Intensity Measurement Accuracy | ± (reading×10%)   |  |
| Store and Print                               | Equipped with an external printer for easy data printing, data can be stored in real time                   |  |
| Power Supply                                  | Built-in large-capacity lithium battery, one charge, can continuously test for more than 8 hours            |  |
| Dimension                                     | 246*156*62m   |  |
| Weight  | 1.5Kg   |  |

### WDT-200 Transformer Winding Deformation Tester

|                              |  |
|------------------------------|--|
| Appearance Design            | CNC precision carving integrated design, matte metal craftsmanship, highlighting the metal texture   |
| Tester and wires in one case | The main unit and the wire box are integrated, the trolley box is convenient to carry, and the test wire accessories are not easy to lose    |
| Integrated                   | Integrating test equipment and industrial computer, the computer does not need to be equipped separately, and the test is simpler and faster |
| Measuring speed              | Single-phase winding 1-2 min   |
| Output Voltage               | Vpp-25V automatic adjustment during test   |
| Input Impedance              | 1MΩ (Built-in 50Ω matching resistance in response channel)   |
| Sweep Mode                   | Linear or logarithmic, sweep interval and number of points can be set arbitrarily  |
| Frequency Sweep Range        | 10Hz – 15MHz   |
| Output Impedance             | 50Ω  |
| Measuring Dynamic Range      | – 120dB-20dB   |
| Curve Display                | Amplitude-frequency curve  |
| Frequency Accuracy           | 0.00001  |
| Power Supply                 | AC220V±10%   |
| Dimension                    | 380*240*80m  |
| Weight                       | 4.5kg  |

### DLT-800 Color Screen Smart Anti-Interference Dielectric Loss Tester

|  |   |
|--|---|
| Appearance Design                                  | PELICAN trolley case, light, portable IP67  |
| Humanized Interface                                | Intelligent touch large color screen, simple operation, super large graphic operation interface, clear test process |
| Tgδ Range  | Unlimited, resolution 0.001%, automatic identification of capacitance, inductance, and resistance                   |
| Accuracy   | ± (0.01+0.0004)   |
| Protection Setting                                 | Low voltage/current, high voltage/current 4 protection  |
| Capacitance range when using internal high voltage | 3pF-1μF, Max 0.001pF, 4 effective digits  |
| Capacitance range when using external high voltage | 3pF-30μF, Max 0.001pF, 4 effective digits   |
| Test Current Range                                 | 5μA-5A  |
| Internal High Voltage Output                       | 0.5-10kV  |
| Test Frequency                                     | 40-70Hz Single frequency can be set arbitrarily   |
| CVT Self-excited Low Voltage Output                | Output voltage 3-50V, Output current 3-30A  |
| Measure Time                                       | About 40s, related to the measurement method  |
| Additional Feature                                 | Optional standard oil cup can also realize oil loss measurement   |
| Power Supply                                       | 180V-270VAC, 50Hz±1%  |
| Dimension  | 500*305*457mm   |
| Weight   | 22kg  |

### ERT-600 Color Screen Intelligent Earth Gird Ground Resistance Tester

|                            |   |                                |
|----------------------------|---|--------------------------------|
| Appearance Design          | PELICAN integrated trolley case, light, portable IP67   |                                |
| Humanized Interface        | Intelligent touch large color screen, simple operation, super large graphic operation interface, clear test process |                                |
| Measure Range              | 0-5000Ω   |                                |
| Resolution                 | 0.001mΩ   |                                |
| Accuracy                   | ± (0.02+0.005Ω)   |                                |
| Anti-interference          | Anti-power frequency: 50Hz  | Anti-voltage interference: 10V |
| Test Current Frequency     | Single frequency: 40-70Hz set arbitrarily , resolution 0.1Hz  |                                |
|                            | Dual frequency:<br>50±0.1Hz to 50±10.0Hz set arbitrarily<br>60±0.1Hz to 60±10.0Hz set arbitrarily                   |                                |
| Output Current             | 5A or external power supply 30A   |                                |
| Output Voltage             | 400V or external power supply 1000V   |                                |
| Measuring Wire Requirement | Current wire Copper core ≥1.5mm <sup>2</sup><br>Voltage wire Copper core ≥1.0mm <sup>2</sup>                        |                                |
| Power Supply               | AC220V±10%, 50Hz  |                                |
| Dimension                  | 500*305*457mm   |                                |
| Weight                     | 20kg  |                                |

### HCG-1000 Pro Automatic High Current Generator

|                                      |  |  |
|--------------------------------------|--|--|
| Appearance Design                    | PELICAN trolley case, light, portable IP67                                 |  |
| Screen Display                       | Large high-brightness LCD screen, still clearly visible in strong sunlight |  |
| Output Capacity                      | Max: 5000VA  |  |
| Output Current                       | Max: 1000A*5V OR 500A*10V  |  |
| Primary Ammeter Range                | 0-1100A  |  |
| Secondary Ammeter Range              | 0-6A   |  |
| Secondary Load Impedance Measurement | 1A:0-10Ω @ 5A: 0-2Ω  |  |
| Accuracy                             | Voltage: ± (0.005+5 words) ;   |  |
|                                      | Primary Current: ± (0.005+0.2A)  |  |
|                                      | Secondary Current: ± (0.005+3 words) ;                                     |  |
|                                      | Turn ratio: ± (0.005+3words) ;   |  |
| Store and Print                      | Built-in thermal printer, real-time printing, real-time data storage       |  |
| Power Supply                         | AC 220V 50/60Hz  |  |
| Dimension                            | 500*305*457mm  |  |
| Weight                               | 39kg   |  |

### TCT-200C Intelligent CT PT Comprehensive Characteristic Tester

|                                      |  |  |
|--------------------------------------|--|--|
| Appearance Design                    | PELICAN trolley case, light, portable IP67                                 |  |
| Screen Display                       | Large high-brightness LCD screen, still clearly visible in strong sunlight |  |
| Output Capacity                      | Max:5000VA   |  |
| Output Current                       | Max:1000A*5V   |  |
| Output Voltage                       | AC:  |  |
|                                      | 0-2500V·2A, 0-2000V·2A   |  |
|                                      | 0-1000V·5A, 0-500V·10A   |  |
|                                      | 0-250V·20A, 0-125V·20A   |  |
|                                      | 0-50V·20A, 0-15V·20A   |  |
| Voltammetry test max current         | 1A, 2A, 3A, 4A, 5A, 10A, 15A、 20A  |  |
| Primary Ammeter Range                | 0-1100A  |  |
| Secondary Ammeter Range              | 0-6A   |  |
| Secondary Load Impedance Measurement | 1A:0-10Ω @ 5A: 0-2Ω  |  |
| Accuracy                             | Primary voltage : ± (0.005+0.2V) Secondary voltage : ± (0.005+2 words)     |  |
|                                      | Primary current: ± (0.005+0.2A) Secondary current: ± (0.005+2 words)       |  |
| Store and Print                      | Built-in thermal printer, real-time printing, real-time data storage       |  |
| Power Supply                         | AC 220V 50/60Hz  |  |
| Dimension                            | 500*305*457mm  |  |
| Weight                               | 43kg   |  |

### HVS-12 High Voltage Switch Characteristic Tester

|                    |   |                    |
|--------------------|---|--------------------|
| Appearance Design  | PELICAN Protector Case IP67   |                    |
| Processing Design  | Imported materials, brushed metal panels, ultra-light, high-strength, ultra-corrosive titanium alloy screws, highlighting the quality |                    |
| Screen Display     | Large high-brightness LCD screen, intuitive display, still clearly visible in strong sunlight   |                    |
| Time Fracture      | 12 metal contacts, 25V, current limit 50mA  |                    |
| Motion Sensor      | 1   |                    |
| Safety Performance | Insulation resistance: >2MΩ, Leakage current: <3.5mA  |                    |
|                    | Dielectric strength: AC 1500V 50Hz, 1min  |                    |
| Time Test          | Range   | 0-20s              |
|                    | Accuracy  | ± (0.001%±2 words) |
|                    | Resolution  | 0.1ms              |
| Stroke Test        | Range   | 0-1000mm           |
|                    | Accuracy  | ± (0.01±1 word)    |
|                    | Resolution  | 0.1mm              |
| Speed Test         | Range   | 0.01-20.00m/s      |
|                    | Accuracy  | ±(0.01±1 word)     |
|                    | Resolution  | 0.01m/s            |

### HVS-12 High Voltage Switch Characteristic Tester

|                     |  |                  |                   |
|---------------------|--|------------------|-------------------|
| DC Power Supply     | Adjustment range   | 15-260V          |                   |
|                     | Max instantaneous current  | 20A              |                   |
|                     | Accuracy   | ± (0.01±1 word)  |                   |
|                     | Load change rate   | ≤0.01            |                   |
| Synchronous Trigger | Voltage  | 15-260V          |                   |
|                     | Current  | 0.1-20A          |                   |
|                     | Sensor   | Position changes |                   |
|                     | Fracture   | Signal jump      |                   |
| Graphic Display     | 0.1ms value per channel  | Structure type   | Top open portable |
| Store and Print     | Built-in high-speed thermal printing, fast and silent, data can be stored in real time |                  |                   |
| Data Management     | USB communication. Data and waveform can be uploaded through PC management software    |                  |                   |
| Power Supply        | AC 220V±10% , 50Hz±10%   |                  |                   |
| Dimension           | 420*331*174mm  |                  |                   |
| Weight              | 8kg  |                  |                   |

### CAI-3 Pro Capacitance Inductance Tester

|                               |   |  |  |
|-------------------------------|---|--|--|
| Appearance Design             | PELICAN Protector Case, light, portable IP67  |  |  |
| Processing Design             | Imported materials, brushed metal panels, ultra-light, high-strength, ultra-corrosive titanium alloy screws, highlighting the quality |  |  |
| Screen Display                | Large high-brightness color LCD screen, still clearly visible in strong sunlight  |  |  |
| Capacitance Measurement Range | 0.1μF-3500μF  |  |  |
| Capacitance Measurement       | ± (0.01 +0.005μF)   |  |  |
| Minimum Resolution            | 0.001μF   |  |  |
| Inductance Measurement Range  | 100μH-20H 、 ±0.02   |  |  |
| Resistance Measurement Range  | 10mΩ-20kΩ、 ±0.02  |  |  |
| Current Measurement Range     | AC 10mA-50A, 30-150Hz   |  |  |
| Current Measurement Accuracy  | ±0.01   |  |  |
| Voltage Measurement Range     | AC 0V-30V   |  |  |
| Store and Print               | Built-in thermal printing function, fast and silent, data can be stored in real time  |  |  |
| Power Supply                  | Built-in Lithium battery  |  |  |
| Dimension                     | 340*295*152mm   |  |  |
| Weight                        | 4.5kg   |  |  |

### TCT-200F Frequency Conversion Method CT PT Comprehensive Characteristic Tester

|                                   |   |  |  |
|-----------------------------------|---|--|--|
| Appearance Design                 | PELICAN Protector Case, light, portable IP67  |  |  |
| Processing Design                 | Imported materials, brushed metal panels, ultra-light, high-strength, ultra-corrosive titanium alloy screws, highlighting the quality |  |  |
| Screen Display                    | Large high-brightness LCD screen, still clearly visible in strong sunlight  |  |  |
| Output                            | 0-120Vrms, 5Arms, 12A (Peak)  |  |  |
| Voltage Test Accuracy             | ±0.002  |  |  |
| CT Turn Ratio Test Range          | 1-10000   |  |  |
| CT Turn Ratio Test Accuracy       | ±0.002  |  |  |
| PT Turn Ratio Test Range          | 1-10000   |  |  |
| PT Turn Ratio Test Accuracy       | ±0.002  |  |  |
| Phase Test                        | Accuracy: ±5min, Resolution: 0.5min   |  |  |
| Secondary Winding Resistance Test | Range: 0-300Ω Accuracy: 0.005±2mΩ   |  |  |
| AC Load Test                      | Range: 0-1000VA Accuracy: 0.005±0.05VA  |  |  |
| Store and Print                   | Built-in thermal printer, real-time printing test results, real-time data storage   |  |  |
| Power Supply                      | AC220V±10%, 50Hz  |  |  |
| Dimension                         | 407*342*193m  |  |  |
| Weight                            | 4.75kg  |  |  |

### ZOA-200 Zinc Oxide Arrester Resistive Current Tester

|   |   |  |  |
|---|---|--|--|
| Appearance Design                             | PELICAN Protector Case IP67   |  |  |
| Processing Design                             | Imported materials, brushed metal panels, ultra-light, high-strength, ultra-corrosive titanium alloy screws, highlighting the quality |  |  |
| Screen Display                                | Large high-brightness color LCD screen, still clearly visible in strong sunlight  |  |  |
| Full Current Measurement Range                | 0-10mA effective value, 50Hz/60Hz   |  |  |
| Accuracy                                      | ± (0.05+5uA)  |  |  |
| Resistive current Cardinal Wave Accuracy      | ± (0.05+5uA)  |  |  |
| Current Harmonic Measurement Accuracy         | ± (0.1+10uA)  |  |  |
| Current Channel Input Resistance              | ≤2Ω   |  |  |
| Reference Voltage Input Range                 | 25V-250V effective value, 50Hz/60Hz   |  |  |
| Reference Voltage Measurement Accuracy        | ± (0.05+0.5V)   |  |  |
| Reference Voltage Channel Input Resistance    | ≥1500kΩ   |  |  |
| Electric Field Intensity Input Range          | 30kV/m-300kV/m  |  |  |
| Electric Field Intensity Measurement Accuracy | ± (0.1)   |  |  |
| Store and Print                               | Equipped with an external printer for easy data printing, data can be stored in real time   |  |  |
| Power Supply                                  | Built-in large-capacity lithium battery, one charge, can continuously test for more than 8 hours                                      |  |  |
| Dimension                                     | 340*295*152m  |  |  |
| Weight  | 3Kg   |  |  |

### TRT-20 Transformer Turns Ratio Tester

|                   |   |
|-------------------|---|
| Appearance Design | PELICAN Protector Case IP67   |
| Processing Design | Imported materials, brushed metal panels, ultra-light, high-strength, ultra-corrosive titanium alloy screws, highlighting the quality |
| Screen Display    | Large high-brightness color LCD screen, intuitive display, still clearly visible in strong sunlight                                   |
| Range             | 0.9-10000   |
| Accuracy          | $\pm(\text{reading} \times 0.1\% + 2 \text{ words})(\leq 500)$  |
|                   | $\pm(\text{reading} \times 0.2\% + 2 \text{ words})( > 500, \leq 3000)$   |
|                   | $\pm(\text{reading} \times 0.3\% + 2 \text{ words})( > 3000)$   |
| Resolution        | 0.9-9.9999 (0.0001)   |
|                   | 100-999.99 (0.01)   |
|                   | 10-99.999 (0.001)   |
|                   | 1000-9999.9 (0.1)   |
|                   | $\geq 10000$ (1)  |
| Store and Print   | Built-in printer for easy data printing and real-time data storage  |
| Power Supply      | AC220V  |
| Dimension         | 340*295*152mm   |
| Weight            | 4kg   |

### STRT-100 Pro Special Transformer Turn Ratio Tester

|                                |   |
|--------------------------------|---|
| Appearance Design              | PELICAN Protector Case IP67   |
| Processing Design              | Imported materials, brushed metal panels, ultra-light, high-strength, ultra-corrosive titanium alloy screws, highlighting the quality |
| Screen Display                 | Large high-brightness color LCD screen, intuitive display, still clearly visible in strong sunlight                                   |
| Group Test Range               | 1-12  |
| Turn Ratio Test Range          | 0.5-10000   |
| Angle Difference Test Range    | 0-360°  |
| Turn Ratio Test Accuracy       | (0.5-1000):+0.001 (1001-2000):+0.002<br>(2001-4000):+0.003 (4001-10000):+0.005  |
| Angle Difference Test Accuracy | 30°   |
| Dielectric Strength            | Insulation resistance to the case $\geq 100M\Omega$ , Shell tolerance 2kV, 1 minute   |
| Store and Print                | Built-in thermal printer, fast, silent, real-time data storage  |
| Power Supply                   | Powered by large-capacity lithium battery, no need to worry about getting power on site   |
| Dimension                      | 340*295*152mm   |
| Weight                         | 4.5kg   |

### TC-1000 Transformer Capacity Characteristic Tester

|  |   |
|--|---|
| Appearance Design                        | PELICAN Protector Case IP67   |
| Processing Design                        | Imported materials, brushed metal panels, ultra-light, high-strength, ultra-corrosive titanium alloy screws, highlighting the quality |
| Screen Display                           | Large high-brightness color LCD screen, intuitive display, still clearly visible in strong sunlight                                   |
| Voltage Measurement Range                | AC 50V-850V   |
| Current Measurement Range                | AC 0.5A-100A  |
| Voltage and Current Measurement Accuracy | $\pm (0.002 + 2 \text{ words})$   |
| Power Measurement Accuracy               | $(0.2 \leq \cos\phi \leq 1), \pm (0.01 + 2 \text{ words})$  |
| Capacity Measurement Range               | 30kVA-65000kVA  |
| Capacity Measurement Accuracy            | $\pm (0.1 + 2 \text{ words})$   |
| Store and Print                          | Built-in thermal printer, real-time printing, fast and silent, real-time data storage   |
| Power Supply                             | Powered by a large-capacity lithium battery, no need to worry about getting electricity on site                                       |
| Dimension                                | 340*295*152mm   |
| Weight                                   | 5Kg   |

### DHVT Series DC High Voltage Generator

|                                 |   |
|---------------------------------|---|
| Ripple Coefficient              | $\leq 0.5\%$                                |
| Voltage Adjustment Accuracy     | $\leq 0.1\%$                                |
| Voltage Stability               | $\leq 1\%$                                  |
| Voltage And Current Measurement | 4.1/2 Digital display                       |
| Voltage Measurement Accuracy    | $1\% \pm 1 \text{ word}$                    |
| Current Measurement Accuracy    | $0.5\% \pm 1 \text{ word}$                  |
| Overvoltage Protection          | Dialing setting, error $\pm 1\%$            |
| Working Type                    | Intermittent use, rated load for 30 minutes |
| Working Temperature             | -10-45 °C                                   |
| Relative Humidity               | $< 90\%$                                    |
| Altitude                        | $< 1000\text{m}$                            |



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