

1.High-Voltage Electrical Equipment

Gas-Insulated Metal-Clad Transformer Equipment (200kV-1250kV)

Product Features:

- Adopt advanced simulation analysis tools for product system design.
- Adopt the same electrical contact and sealing structure design as GIS.
- In terms of secondary control, a dedicated intelligent operation platform is developed to meet customers' needs for automated operations and online monitoring of the equipment's own air tightness and insulation performance.
- Components adopt self-produced insulation parts, online monitoring devices, and well-known brand basin insulators and seals.
- Possess core transformer coil winding and vacuum drying processing capabilities, ensuring customers complete test operations safely and efficiently from three aspects: design concept, component selection and manufacturing capacity.



1.High-Voltage Electrical Equipment

Metal-Clad Lightning Impulse Generator (900kV~4200kV)

Product Features:

- Adopt high-insulation performance gas as the main insulation medium and metal-clad integrated structure, reducing the insulation distance between internal electrodes of the switchgear, breaking the limitation of the use site, and eliminating the need to construct a factory building of a specific height.
- Adopt advanced wave modulation technology and multi-level voltage generator design, resulting in stable output impulse voltage waveform and good repeatability, providing a reliable basis for accurately evaluating the insulation performance of the tested equipment.



1.High-Voltage Electrical Equipment

Power Frequency Withstand Voltage Complete Set for Electrical Insulators (300kV-1250kV)



Product Features:

- Conduct electric field analysis according to the customer's product assembly structure and design special test tooling to ensure the effectiveness of the test.
- Configure test tooling according to the customer's production capacity requirements to ensure test efficiency.

1.High-Voltage Electrical Equipment

Series Resonance Test Device for Substation On-Site Handover Test (300kV-1250kV)



Product Features:

- Metal fully enclosed structure design, adopt SF6 gas as insulation medium, built-in series resonance and variable frequency power supply device.
- More compact and lightweight structure.
- Suitable for test operations in narrow and complex on-site environments of substations.



1.High-Voltage Electrical Equipment

Oil-Immersed Transformer (100kV~1500kV)

Product Features:

- Adopt fully sealed structure.
- Possess core transformer coil winding and vacuum drying processing capabilities, ensuring customers complete test operations safely and efficiently from three aspects: design concept, component selection and manufacturing capacity.



1.High-Voltage Electrical Equipment

Open-Type Lightning Impulse Generator (300kV~4200kV)

Product Features:

- Adopt multi-level tower-type open structure, with small loop inductance and strong load capacity, which can accurately simulate lightning impulse scenarios and meet the insulation performance test requirements of high-voltage equipment such as transformers and GIS.
- Its wave modulation operation is convenient, equipped with plate-shaped non-inductive wave modulation resistors and spring crimp joints, supporting multi-waveform output such as full wave, chopped wave and switching wave.



1.High-Voltage Electrical Equipment

Transformer for Substation (SSVT) (300kV-1250kV)

Product Features:

- Adopt SF6 gas as insulation medium, with excellent insulation performance and reliable product power supply.
- Adopt single-phase design, the high-voltage terminal can be connected to the high-voltage overhead line to supply load for electrical loads.
- Adopt silicone rubber bushings, no risk of porcelain bushing explosion.
- No oil content, no fire risk.
- Easy to install and low maintenance cost.



1.High-Voltage Electrical Equipment

Energy Supply Isolation Transformer (200kV-800kV)

Product Features:

- Customized according to customer needs.
- The shell is a metal aluminum shell, which has the advantages of small floor space, safety and reliability.
- Adopt SF6 gas insulation, no oil content, no insulation aging risk.

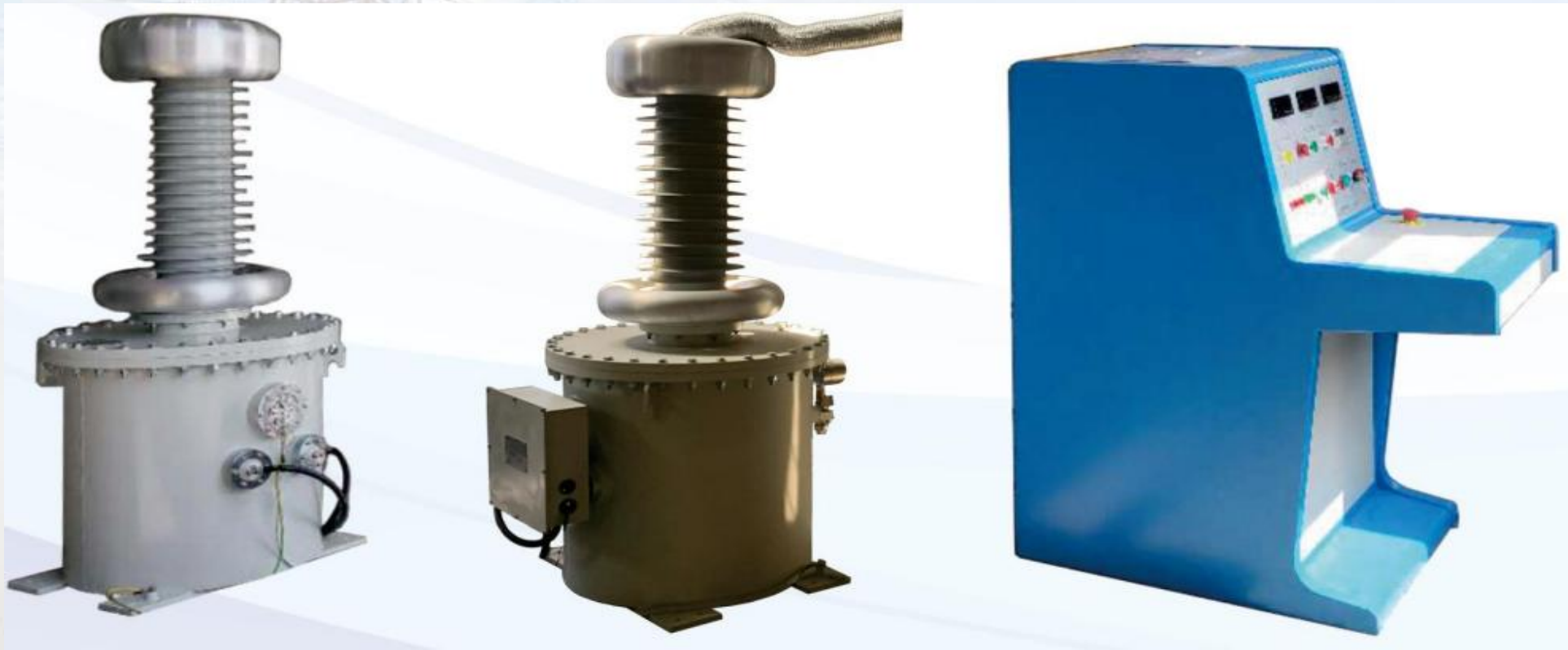


1.High-Voltage Electrical Equipment

Power Frequency Test Transformer for Medium-Voltage Switches (40.5kV-250kV)

Product Features:

- Low impedance voltage, system impedance not greater than 5%, meeting the requirements of AC pollution test.
- Successfully developed epoxy insulation cylinder with no partial discharge, small partial discharge capacity.
- Adopt automatic control technology, high degree of automation and strong anti-interference ability.



1.High-Voltage Electrical Equipment

High-Current Generator Device (2000A-10000A)



Product Features:

- Large output current, can meet the test requirements of different equipment.
- High current stability, ensuring the accuracy of test results.
- Easy to operate, with overcurrent protection, overheating protection and other safety functions.

1.High-Voltage Electrical Equipment

High-Voltage Shielded Hall



Product Features:

- The shielding shell is a hexahedral structure formed by continuous splicing of shielding modules, with excellent shielding effect.
- The shielded hall adopts a single-leaf threshold-free translational electric airtight structure, which not only ensures the shielding effect but also facilitates the passage of vehicles.

1.High-Voltage Electrical Equipment

Single-Phase Isolation Earthing Switch/Three-Phase Changeover Switch



Product Features:

- The single-phase isolation switch independently developed by Tenyen can not only switch on and off but also has isolation and earthing functions.
- The three-phase changeover switch (five-position switch) can not only realize phase change but also has isolation and earthing functions; realize one-time mouth-to-mouth docking to complete multiple tests, greatly improving test efficiency.

1. Partial Equipment Performance List of Tenyen Tests

NO	Purchasing Company Name	Name of Goods or Project	Purchase Quantity
1	Siemens Energy Global GmbH Co.KGHV	Variable Frequency Series Resonant Test System	1 set
2	Hyosung Heavy Industries	1000 kV Rail-Type Pressure Vessel Project	1 set
3	RTC-ELECTRO-M Ltd	Faraday Cage length30m*width23m*height18m	1 set
4	RTC-ELECTRO-M Ltd	YDTCW 900kVA/2x300 kV Oil-Type Transformer	1 set
5	Changzhou Qingta High Voltage Bushing Co., Ltd.	Armored Power Frequency Electrical Performance Test System for 1250kV Insulators	1 set
6	Hunan Changgao Hongrui Electric Co., Ltd.	1250kV Metal-Clad Power Frequency Electrical Performance Test Transformer Equipment	1 set
7	Zhejiang Lei'an Electric Co., Ltd. (Rebos)	1250kV Power Frequency Gas Withstand Voltage& Partial Discharge Test Complete Set of Equipment	1 set
8	Xi'an XD Switchgear Electric Co., Ltd.	1250kV Armored Power Frequency Electrical Performance Test Transformer Equipment	1 set
9	Jiangsu Shenma Power Co., Ltd.	Armored Power Frequency Electrical Performance Test System for 1250kV Insulating Components	1 set

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NO	Purchasing Company Name	Name of Goods or Project	Purchase Quantity
10	Chint Electric Co., Ltd.	1250kV Armored Gas Insulated Transformer plus 2700kV Armored Lightning Impulse Generator	1 set
11	Kelaixing Electric Power Technology (Jiangsu) Co., Ltd.	1000kV Gas Insulated Transformer 2700kV/270kJ Lightning Impulse Generator	1 set
12	Wubian Electrical Equipment Co., Ltd.	1000kV Gas Insulated Transformer 2700kV/270kJ Lightning Impulse Generator	1 set
13	Chint Electric Co., Ltd.	1000kV Gas-Insulated Test Transformer Equipment	1 set
14	Zhongke Lixiang Technology Co., Ltd.	800kV/2A MetalClad Transformer 2400kV/240kJ Metal-Clad Lightning Impulse Generator	1 set
15	Shanghai Nanhua-Lanling Electrical Co., Ltd.	600kV/1A Gas-Insulated Test Transformer 1600kV / 160kJ Open-type Lightning Impulse Generator	1 set
16	Henan Xuji Electric Switch Co., Ltd.	900kV Open-type Lightning Impulse Test Equipment	1 set
17	Shandong Longma Electrical Equipment Co., Ltd.	650kV/2A Metal-clad Gas-Insulated Test Transformer 1800kV/180kJ Metal-clad Lightning Impulse Generator	1 set
18	Xi'an Jiaotong University	600kV/2A Test Transformer 1000kV/100kJ Lightning Impulse Generator	1 set
19	Jiangsu Electric Power Company Research Institute	800kV Insulator Withstand Voltage Test Platform	1 set

1. Partial Equipment Performance List of Tenyen Tests

NO	Purchasing Company Name	Name of Goods or Project	Purchase Quantity
20	State Grid Hunan Electric Power Research Institute	800kV Insulator Withstand Voltage Test Equipment	1 set
21	State Grid Shanghai Municipal Electric Power Co., Ltd.	800kV Electrical Performance Insulator Insulation Detection Test Platform	1 set
22	Xi'an Jiaotong University	800kV Gas-Insulated Test Transformer Equipment for Electrical Insulators	1 set
23	Jiangsu Sieyuan High-Voltage Switch Co., Ltd.	800kV Insulator Withstand Voltage Test Equipment	1 set
24	Shandong Dachi High Voltage Switchgear Co., Ltd.	1. Power Frequency Withstand Voltage Equipment: 600kV/2A Lightning Impulse Equipment: 1800kV/180kJ	1 set
25	Zhejiang Juhongkai Intelligent Electric Co., Ltd.	600kV Armored Transformer 1800kV, 180kJ Armored Lightning Impulse Generator	1 set
26	Jiangsu Suxing High Voltage Switchgear Co., Ltd.	600kV 2A Armored Transformer & 1800kV 180kJ Armored Lightning Impulse Generator	1 set
27	Jiangsu Ankang Smart Electricity Co., Ltd.	600kV Metal-Clad Transformer, 1800kV/180kJ Metal-Clad Lightning Impulse Generator	1 set
28	Qingdao TGOOD Electric Co., Ltd.	650kV Gas-Insulated Test Equipment	1 set
29	Jiangsu Suxing High-Voltage Switch Co., Ltd.	600kV/2A Metal-Clad Transformer, 1800kV/180kJ Metal-Clad Lightning Impulse Generator	1 set

1. Partial Equipment Performance List of Tenyen Tests

NO	Purchasing Company Name	Name of Goods or Project	Purchase Quantity
30	Qingdao Yihe Electric Group Co., Ltd.	600kV Metal-Clad Transformer Equipment	1 set
31	Tai'an Taihe Electric Power Equipment Co., Ltd.	600kV Metal-Clad Transformer Equipment	1 set
32	Guangzhou Baiyun Electric Apparatus Co., Ltd.	600kV Gas-Insulated Power Frequency Partial Discharge-Free Test Equipment (including insulator test tank and test tooling)	1 set
33	Nanjing Switch Factory Co., Ltd.	600kV Gas-Insulated Test Transformer Equipment	1 set
34	Jiangsu Woneng High-Voltage Electric Co., Ltd.	600kV Gas-Insulated Power Frequency Partial Discharge-Free Test Equipment	1 set
35	Guodian Bona (Beijing) Electric Power Equipment Co., Ltd.	600kV Gas-Insulated Test Transformer Equipment	1 set
36	Tianjin Bona Guangyuan Electric Co., Ltd.	500kV Gas-Insulated Insulator Test Equipment	1 set
37	Tai'an Taishan High-Voltage Switch Co., Ltd.	500kV Gas-Insulated Insulator Test Equipment	1 set
38	Qingdao TGOOD Electric Co., Ltd.	330kV Gas-Insulated Test Equipment	1 set
39	Henan Pinggao Electric Co., Ltd.	Gas-Insulated Power Frequency Isolation Energy Supply Transformer (Nan'ao Island Project)	1 set

Business partner



SIEMENS



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