Integrity Honesty Pragmatic Innovation

Striving for excellence Contributing to society

SHANDONG TAIKAI INSTRUMENT TRANSFORMER CO., LTD

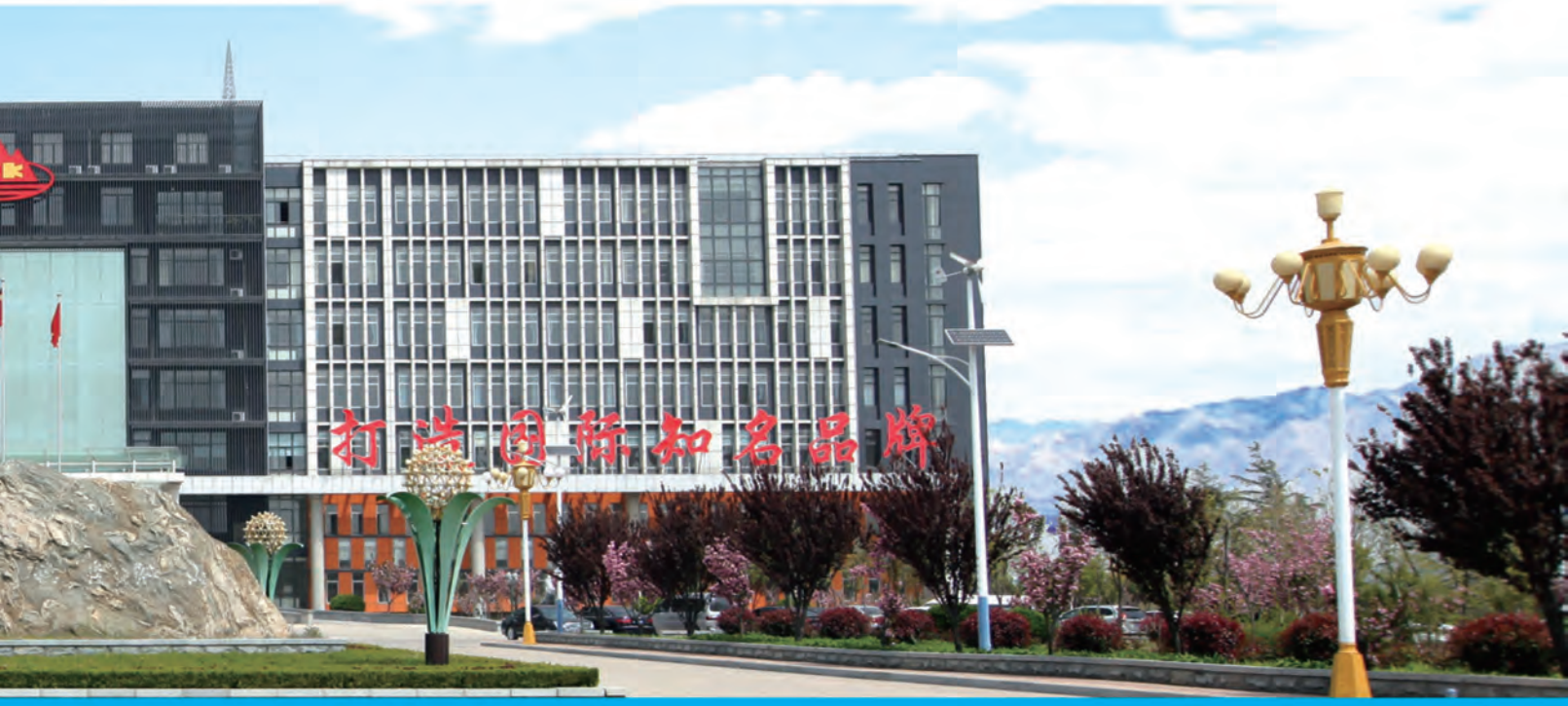
TAI' AN CHINA

Company Profile

Established in 1997, Shandong Taikai Instrument Transformer Co., Ltd is a wholly-owned subsidiary of Shandong Taikai Group Co., Ltd. With registered capital of 200 million and total assets of 535 million, Shandong Taikai Instrument Transformer Co., Ltd is specialized in manufacturing three products series of instrument transformer, surge arrester and complete testing equipment with voltage from 10kV to 1000kV. Shandong Taikai Instrument Transformer Co. Ltd has been honored as National High-technology Enterprise. The company is located at the foot of Mount Tai, and covering the area of 60,000 square meters, includes building area 32,000 square meters, and six purification workshops. We have the domestic first-class professional production lines for transformer, arrester and complete testing equipment. The technology and equipment reach the international advanced level.

Shandong Taikai Instrument Transformer Co., Ltd has been certified by ISO9001 QMS in 1997, and EMS, OHS&QMS in 2009. Owning the strong technical power, the company has participated in?drafting of JJG-1021POWER INSTRUMENT TRANSFORMER VERIFICATION PROCEDURES and other national standards. Meanwhile, the company has also undertaken 22 items of provincial-above technical innovation projects, such as 1000kV standard voltage transformer project, obtained 44 items of nation patents, of which 6 items are utility patents. Cooperating with China Electric Power Research Institute, the company developed 1000kV series standard voltage transformer, standard capacitor, tank-type capacitive voltage transformer, which filled domestic gaps. The performance of this series has reached international advanced level. Of which 1000kV tank-type capacitive voltage transformer was successfully put into operation in Huainan station during the transmission of Huainan-Shanghai UHV AC transmission demonstration project from Anhui to East of China in 2013;The standard voltage transformer was successfully applied in the 1000 kV UHV AC pilot demonstration project of Jingmen-Nanyang-southeast of Shanxi in 2008. The successful application of 1000kV standard voltage transformer symbolized that China's power frequency voltage ratio standard technology has reached the world advanced level.

As one of the main suppliers of State Grid Corporation of China and China Southern Power Grid, the company ranks top in terms of the accepted contract amount in the bidding. Products of the company have been not only operated safely on National Important Projects, but also the power grid, railway and petrochemical industry covering more than 30 provinces. Passing the type test performed in laboratory of CESI and manufactured according to international standard, the products have been exported to more than 20 countries and regions such as Russia, Ukraine, Kyrgyzstan, Angola, Vietnam, and Laos operating under freezing cold, hot and humid, high altitude, windy and sandy condition. The company not only supplies quality product, but pays more attention to the idea of innovation. Shandong Taikai Instrument Transformer Co., Ltd provides the professional solution such as voltage withstand, partial discharge and error determination for power equipment, which have been well praised from domestic and foreign users.
Quality Policy: All posts put prevention first, continuously improve quality management system, supply zero defect products and sincere service to satisfy the customers.




R&D center


Factory scene


Factory scene


Factory scene

Product Classification:

TYD

LVB series

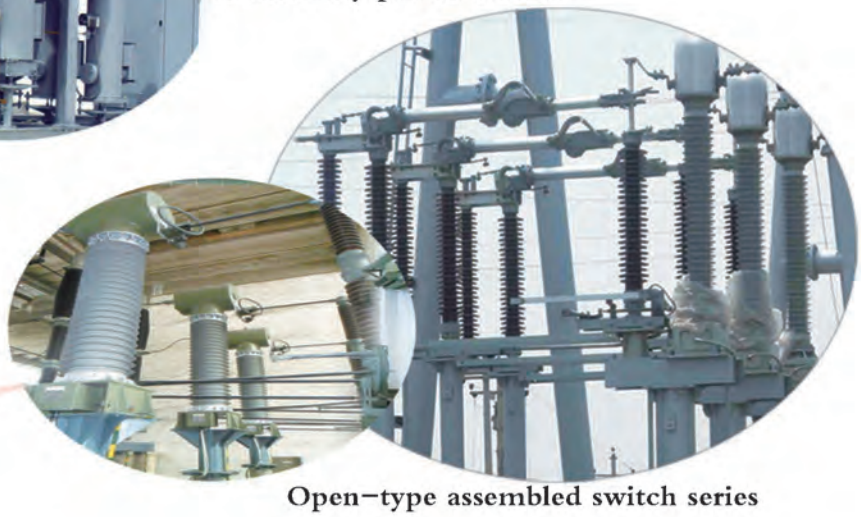
LVQB series

JDQXF series

LB series

series

GIS auxiliary product series

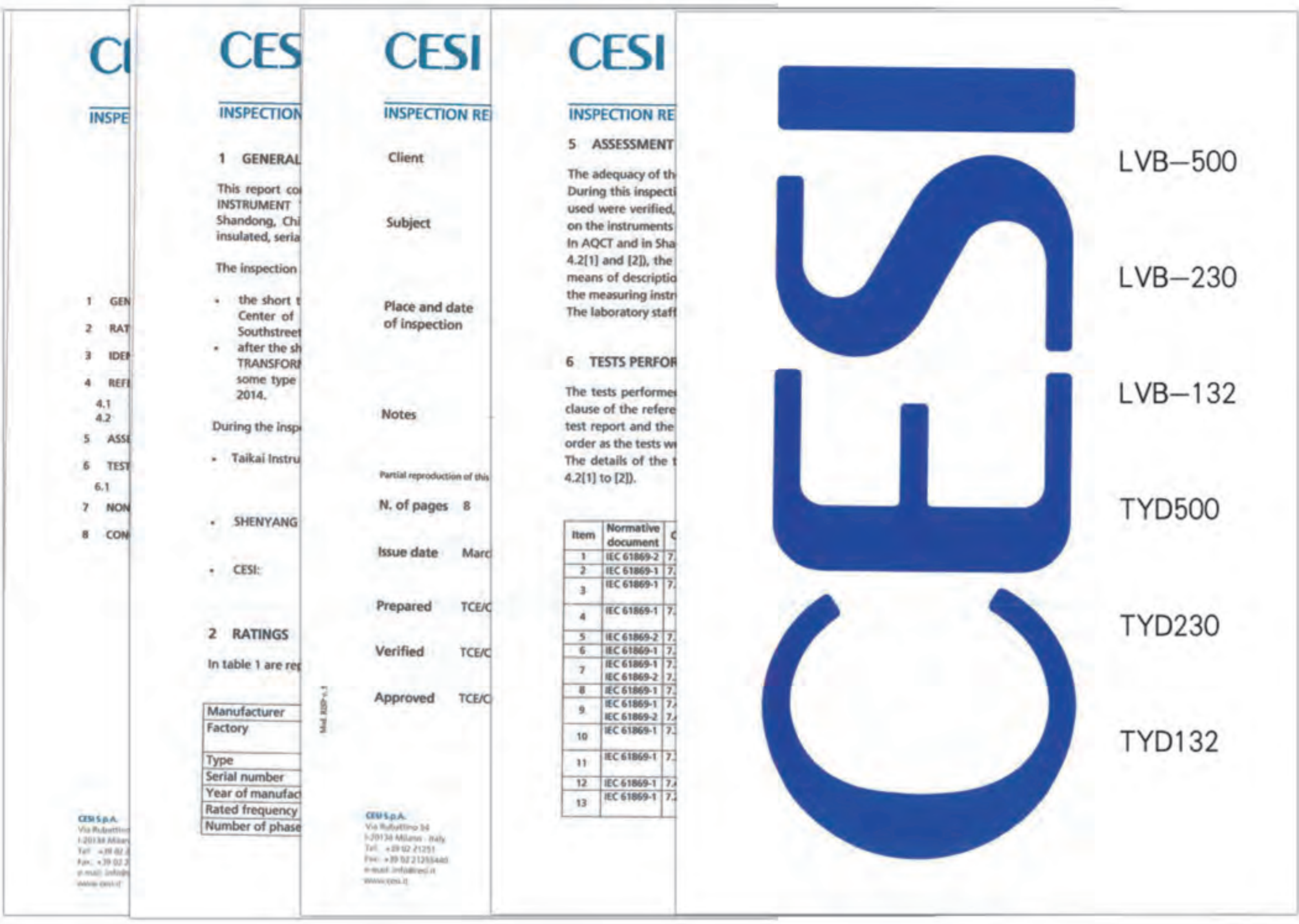


Open-type assembled switch series

Testing equipment series

Surge arrester series

Qualification:




营业执照
(副 本)
名 称 山东泰开互感器有限公司
类 型 有限责任公司(自然人投资或控股的法人独资)
住 所 泰山高新技术产业开发区
法定代表人 王均梅
注册资本 贰亿元整
成立日期 2003年03月25日
营业期限 2003年03月25日至 年 月 日
2016 09 02


发明专利证书
局长 田力普


发明专利证书
局长 田力普


IAF
华信技术检验有限公司
质量管理体系认证证书
山东泰开互感器有限公司
Shandong Taikai Instrument Transformer Co., Ltd.
GB/T19001-2008 idt ISO9001:2008
Design、Manufacture、Installation、Sale and Service of Instrument Transformer,
Surge Arrestor、Bushing, Test Equipment


华信技术检验有限公司
职业健康安全管理体系认证证书
山东泰开互感器有限公司
Shandong Taikai Instrument Transformer Co., Ltd.
GB/T28001-2011 idt OHSAS18001:2007
CNAS


华信技术检验有限公司
环境管理体系认证证书
山东泰开互感器有限公司
Shandong Taikai Instrument Transformer Co., Ltd.
GB/T24001-2004 idt ISO14001:2004
Design、Manufacture、Installation、Sale and Service of Instrument Transformer,
Surge Arrestor, Bushing, Test Equipment.
CNAS
IAF

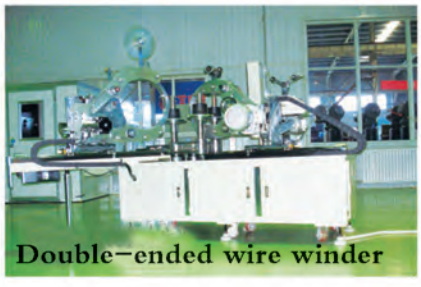

CVT cleansed rolling workshop


CVT oil-injecting platform


High voltage testing hall

Manufacturing site:


Bending and torsion testing machine


Double-ended wire winder


Salt spray test chamber


SF6 shield assembling workshop


CVT dryer

Vacuum dyer

LB oil-injecting platform


Automatic winding equipment


LVB oil-injecting platform

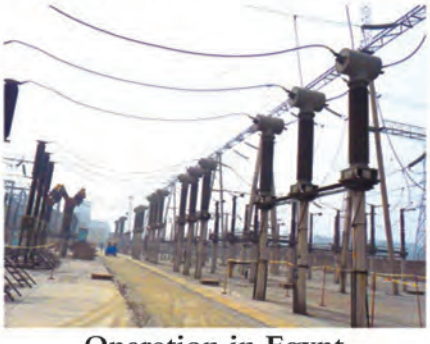
Product operation in China

Product operation abroad

Operation in Guyana

Operation in Ukraine

Operation in Kyrgyzstan



Operation in Egypt

Operation in Vietnam

Operation in Brazil

Operation in Bangladesh

Operation in Yemen

Operation in Jordan

Operation in Angola

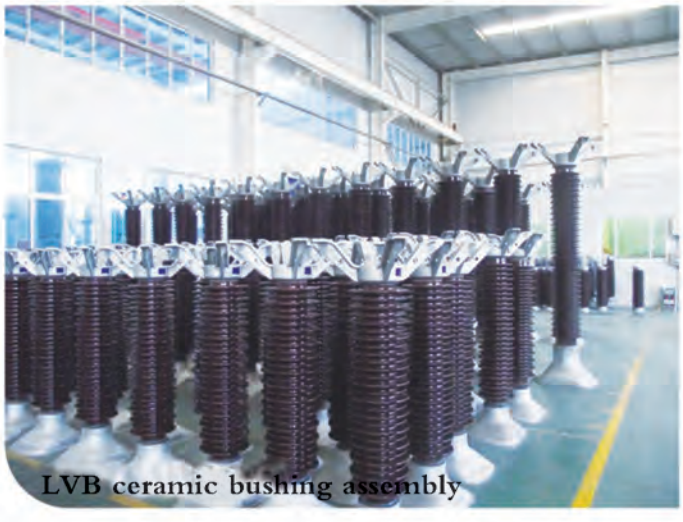
LVB(T)-35-500 series oil-immersed inverted current transformer

◇ Main technical parameters:

Product Type	LVB(T)-35	LVB-66	LVB-110	LVB(T)-220	LVB(T)-500
Highest voltage for equipment(kV)	40.5	72.5	126	252	550
Rated frequency(Hz)	50				
Rated power-frequency withstand voltage(kV)	95	160	200/230	395/460	740
Rated lightning-impulse withstand voltage(kV)	200	350	480/550	950/1050	1675
Partial discharge(pC) /1.2Um	< 5				
Rated primary current(A)	300-800	300-4000	300-4000	300-4000	1000-4000
Rated secondary current(A)	5;1				
Accuracy class (combination as needed)	0.1;0.2;0.2s;0.5;0.5s;5P;10P;TPY				
Rated output(VA)	10-50				
Accuracy limit factor (ALF)	10;15;20;25;30;40				
Instrument security factor (FS)	5;10				
Short-time thermal current (kA/s)	50-63/3				
Rated dynamic stable current (kA)	125-160				
Overall dimension (mm) H1/H	1225/1780	1765/2390	1765/2390	3085/3850	5920/6960
Dimension of primary earthing block	110x130	110x130	110x130	110x180	160x180
Dimension of mounting hole on pedestal ΦG(mm)	4x F 24	4x F 24	4x F 24	4x F 24	4x F 30
Total mass(kg)	30/150	90/420	90/420	150/730	760/2800


LVB testing site


LVB manufacturing site


LVB ceramic bushing assembly


LVB manufacturing site


Insulation strapper


LVB manufacturing site


Power-frequency testing transformer

LVB product to be tested

LVB product exhibition


LVB-500 LVB-330 LVB-220 LVB-110 LVB-35

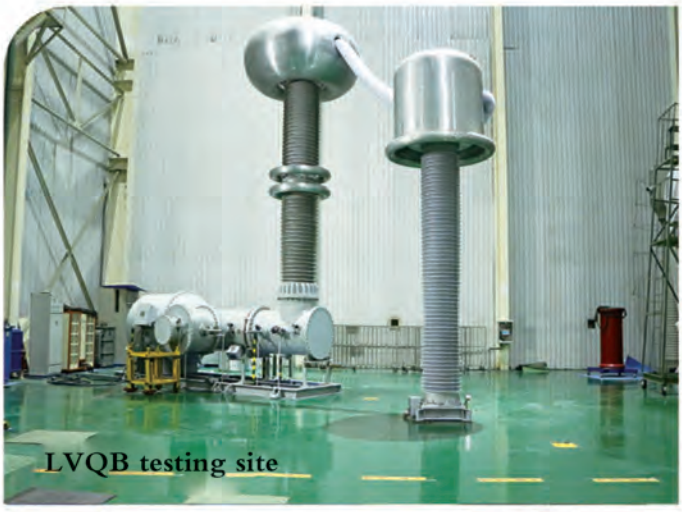
LVQB35-500 series SF6 current transformer

◇Main technical parameters:

Product type	LVQB-35	LVQBT-35	LVQB-66	LVQB-110	LVQB(T)-220	LVQB(T)-330	LVQB(T)-550
Highest voltage for equipment(kV)	40.5		72.5	126	252	363	550
Rated frequency (Hz)	50		50	50	50	50	50
Rated power-frequency withstand voltage (kV)	95		160	230	460	510	740
Rated switching impulse withstand voltage (kV)	--		--	--	--	950	1175
Rated lightning-impulse withstand voltage	200		350	550	1050	1175	1675
Partial discharge (pC)/1.2Um	≺ 5		≺ 5	≺ 5	≺ 5	≺ 5	≺ 5
Rated primary current (A)	50-5000		100-2500		300-4000	1250-4000	1250-5000
Rated secondary current (A)	5 or 1		5 or 1	5 or 1	5 or 1	5 or 1	5 or 1
Accuracy class (combination as needed)	0.2;0.2S;0.5;;0.5S;5P;10P;TPY		0.2;0.2S;0.5;;0.5S;5P;10P		0.2;0.2S;0.5;0.5S;5P;10P;TPY	0.2;0.2S;0.5;;0.5S;5P;10P;TPY	0.2;0.2S;0.5;;0.5S;5P;10P;TPY
Rated output (VA)	15-60		15-60		15-60	10-60	10-60
Instrument security factor (FS)	5;10						
Accuracy limit factor (ALF)	10;15;20;		10;15;20		15;20;25;	15;20;25;30	15;20;25;30
Short-time thermal current (kA/s)	31.5/1	63/3	31.5-63/3		63/3	63/3	63/3
Rated dynamic stable current (kA)	30-125		80-160		125	125-160	125-160
SF6 Rated pressure (20℃) MPa	0.4		0.4		0.4	0.4	0.5
Rated filling pressure (20℃) MPa	0.35		0.35		0.35	0.35	0.35
Rated Annual leakage rate (%)	≤0.5		≤0.5		≤0.5	≤0.5	≤0.5
SF6 Moisture content (μ L/L)	≤150		≤150		≤150	≤150	≤150
Overall dimension H(mm) L(mm) H1(mm)	1125 610 960	1784 1466 1385	2150 1213Max 1870		3600/3770 1300/1440 3180/3240	4550 1660 3500	6695 2073 5913
Dimension of mounting hole on pedestal 4x Φdl B1XB2 (mm) B3	4x Φ22 430x430 134	4x Φ22 430x430 134	4x Φ22 475x475 174.5		4x Φ22 550x550 224	4x Φ22 660x660 224	4x Φ26 900x900 368
Primary outlet terminal dimension	See figure 1						
Total mass(kg)	100	600	400-500		900-1700	1100-1700	2300

LVQB product placement

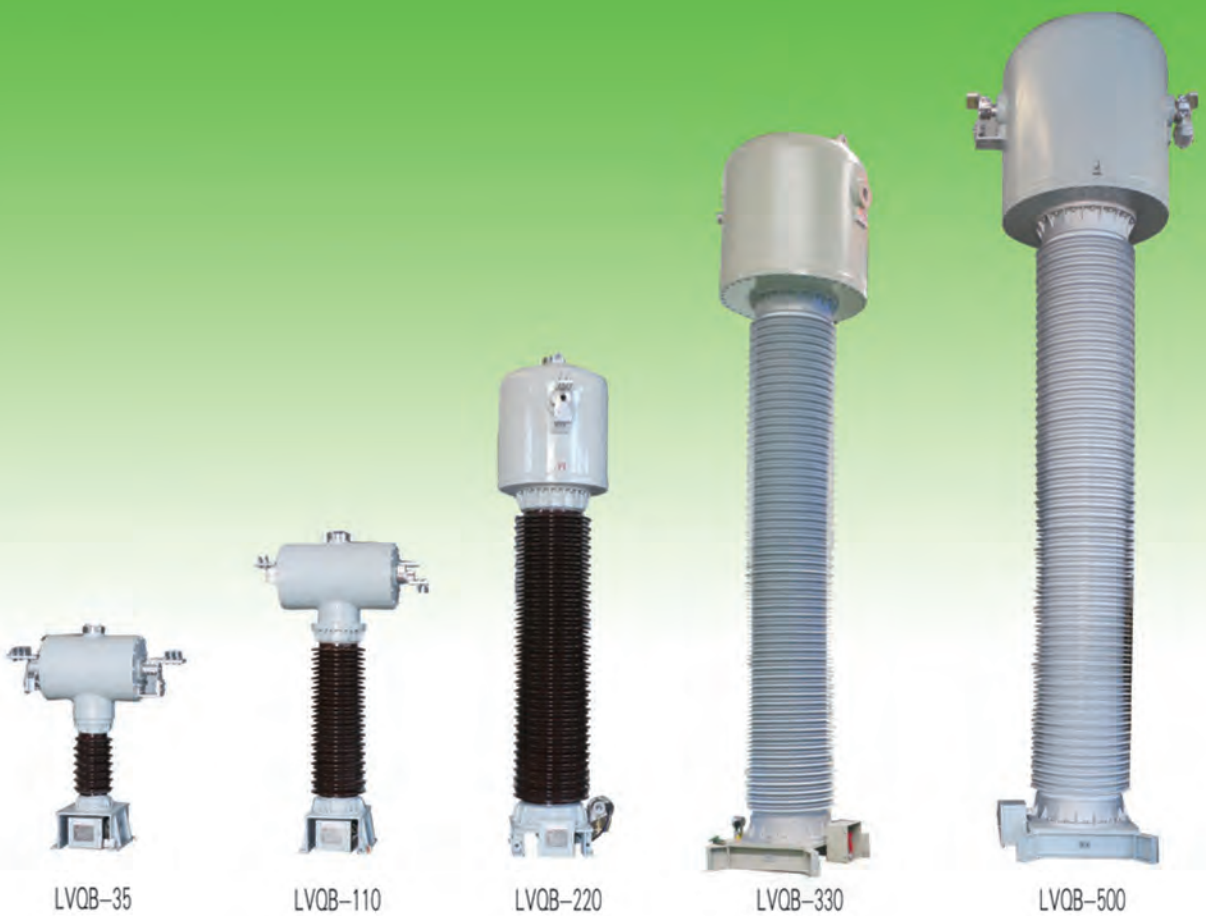

SF6 assembly workshop



LVQB testing site

Semi-product testing station

Product exhibition



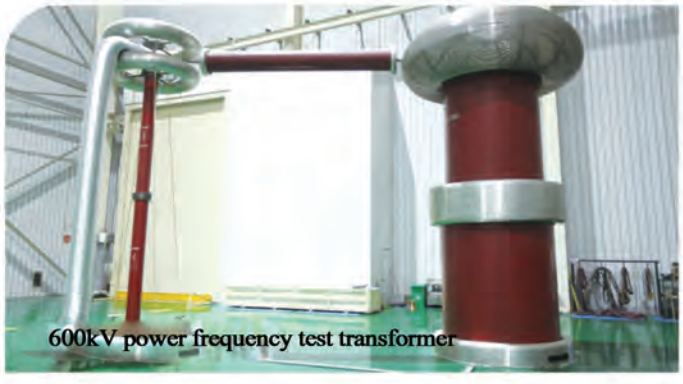
LVQB-35　LVQB-110　LVQB-220　LVQB-330　LVQB-500

TYD35-765 series capacitive voltage transformer

◇Main technical parameters:

Product type		TYD35/-0.01HF	TYD35/-0.02HF	TYD66/-0.01HF	TYD66/-0.02HF	TYD2110/-0.01HF	TYD110/-0.02HF	TYD2110/-0.02HF	TYD2220/-0.005H	TYD220/-0.01H	TYD220/-0.01H	TYD330/-0.005H	TYD500/-0.005H	TYD765/-0.005H
Highest voltage for equipment(kV)		40.5	40.5	72.5	72.5	126	126	126	252	252	252	363	550	800
Rated frequency (Hz)		50	50	50	50	50	50	50	50	50	50	50	50	50
Rated capacitance (pF)		10000	20000	10000	20000	10000	20000	20000	5000	5000	5000	5000	5000	5000
Rated voltage factor/time		1.2 continuous	1.2 continuous	1.2 continuous	1.2 continuous	1.2 continuous	1.2 continuous	1.2 continuous	1.2 continuous	1.2 continuous	1.2 continuous	1.2 continuous	1.2 continuous	1.2 continuous
		1.5/30s				1.5/30s								
Rated power-frequency withstand voltage (kV)		160	160	160	160	200/230	200/230	200/230	395/460	395/460	395/460	510	740	975
Rated lightening impulse withstand voltage (kV)		350	350	350	350	480/550	480/550	480/550	950/1050	950/1050	950/1050	1175	1675	2100
Partial discharge (pC)/1.2Um		≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5
Secondwinding(10/1n)	Accuracy class	0.2,0.5	0.2,0.5	0.2,0.5	0.2,0.5	0.2,0.5	0.2,0.5	0.2,0.5	0.2,0.5	0.2,0.5	0.2,0.5	0.2,0.5	0.2,0.5	0.2,0.5
	Rated output(VA)	≤20	≤30	≤30	≤50	≤30	≤150	≤100	≤50	≤150	≤100	≤50	≤50	≤30
Secondary	Accuracy class	0.5, 3P	0.5, 3P	0.5, 3P	0.5, 3P	0.5, 3P	0.5, 3P	0.5, 3P	0.5, 3P	0.5, 3P	0.5, 3P	0.5, 3P	0.5, 3P	0.5, 3P
winding (2a/2n	Rated output(VA)	≤30	≤50	≤30	≤50	≤50	≤150	≤100	≤50	≤150	≤100	≤50	≤50	≤30
Residual winding (da/dn)	Accuracy class	3P,6P	3P,6P	3P,6P	3P,6P	3P,6P	3P,6P	3P,6P	3P,6P	3P,6P	3P,6P	3P,6P	3P,6P	3P,6P
	Rated output(VA)	≤100	≤100	≤100	≤100	≤100	≤100	≤100	≤100	≤100	≤100	≤100	≤100	≤100
Overall dimension														
Total mass(kg)		450	450	540	540	580	680	680	800	920	920	1200	2200	2350

Note: Different accuracy combination can be provided as request.


600kV power frequency test transformer


Manufacturing site


Pressing machine


CVT product testing area


CVT winding workshop


CVT cleansed rolling workshop


Manufacturing site


Dryer

Product exhibition

LB-35-220 Series Oil-immersed vertical current transformer

◇ Main technical parameters:

Product type	LB6-35	LB6-66	LB6-110	LB7-220
Highest voltage for equipment (kV)	40.5	72.5	126	252
Rated frequency (Hz)	50	50	50	50
Rated power-frequency withstand voltage (kV)	90	160	200/230	395/460
Rated lightning-impulse withstand voltage (kV)	200	350	480/550	950/1050
Partial discharge (pC)/1.2Um	＜5	＜5	＜5	＜5
Rated primary current (A)	5-2000	50-2500	50-2500	50-2500
Rated secondary current (A)	5 or 1	5 or 1	5 or 1	5 or 1
Accuracy class(combination as needed)	5P;10P;0.5;0.5S;0.2;0.2S			
Rated output (VA)	20-50	30-50	30-50	30-50
Accuracy limit factor (ALF)	10;15;20;25;30	10;15;20;25;30	10;15;20;25;30	15;20;25;30
Instrument security factor (FS)	5or10	5or10	5or10	5or10
Short-time thermal current (kA/s)	5.3-50/3	5.3-50/3	5.3-50/3	5.3-50/3
Rated dynamic stable current (kA)	13-125	13-125	13-125	13-125


LB oil-injecting platform

LB product test


Insulation strapper


Product place area

JDQXF35-220series SF6 Voltage transformer

◇Main technical parameters:

Product type		JDQX-35	JDQXF-66	JDQXF-110	JDQXF-220
Highest voltage for equipment (kV)		40.5	72.5	126	252
Rated frequency (Hz)		50	50	50	50
Rated power-frequency withstand voltage (kV)		1.9/8h	1.9/8h	1.5/30s	1.5/30s
Rated lightning-impulse withstand voltage (kV)		95	160	200/230	460
Partial discharge (pC) /1.2Um		<5	<5	<5	<5
Primary winding\ (1a/1n)	Accuracy class	0.2;0.5	0.2;0.5	0.2;0.5	0.2;0.5
	Rated output(VA)	≤25	≤75	≤75	≤100
Secondary winding (2a/2n)	Accuracy class	3P;6P	3P;6P	3P;6P	3P;6P
	Rated output(VA)	≤25	≤75	≤100	≤100
Residual windings(da/dn)	Accuracy class	3P;6P	3P;6P	3P;6P	3P;6P
	Rated output(VA)	≤150	≤300	≤300	≤300
SF6 Rated pressure (20℃)(MPa)		0.4	0.4	0.4	0.45
SF6 Filling pressure (20℃)(MPa)		0.35	0.35	0.35	0.4
SF6 Annual leakage (%)		≤0.5	≤0.5	≤0.5	≤0.5
SF6 Moisture content (μL/L)		<150	<150	<150	<150
Product overall dimension					
Total mass(kg)		155	500	500	1700(Ceramic); 1300(composite)

Note:

1) Different accuracy class combination can be provided as request.

2) External insulation of 66 kV, 110 kV and 220kV can be chosen as customer's request between ceramic and composite one.

3) Subject to the parameters on the nameplate when there is difference between the specific parameters and the table above.

Automatic winding machine

Product exhibition

GIS auxiliary product

We mainly supply 72.5–550kV GIS voltage transformer, GIS current voltage and GIS surge arrester

Y10WF–200/520

JDQXF–500

Operation site

Operation site

Operation site

Operation site

电力工业电气设备质量检验测试中心
检 测 报 告

(2013) 五字第 504 号

一、委托单位

二、试样说明

三、检测标准

四、检测类型

五、检测日期

六、检测结论

七、有效期 五年

检 测：

校 核：

审 核：

批 准：

日 期：2013-05-17

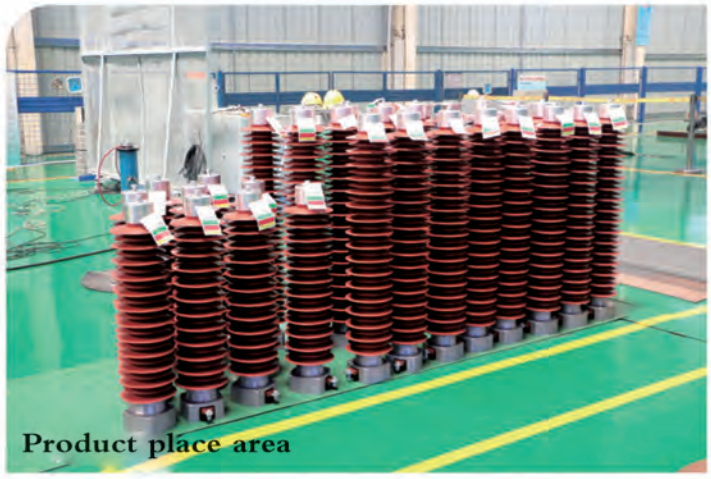
XIHARI 检 验 报 告

检验结论

检验依据：GB 11032-2010 交流无间隙金属氧化物避雷器

XIHARI

Surge arrester


Product place area

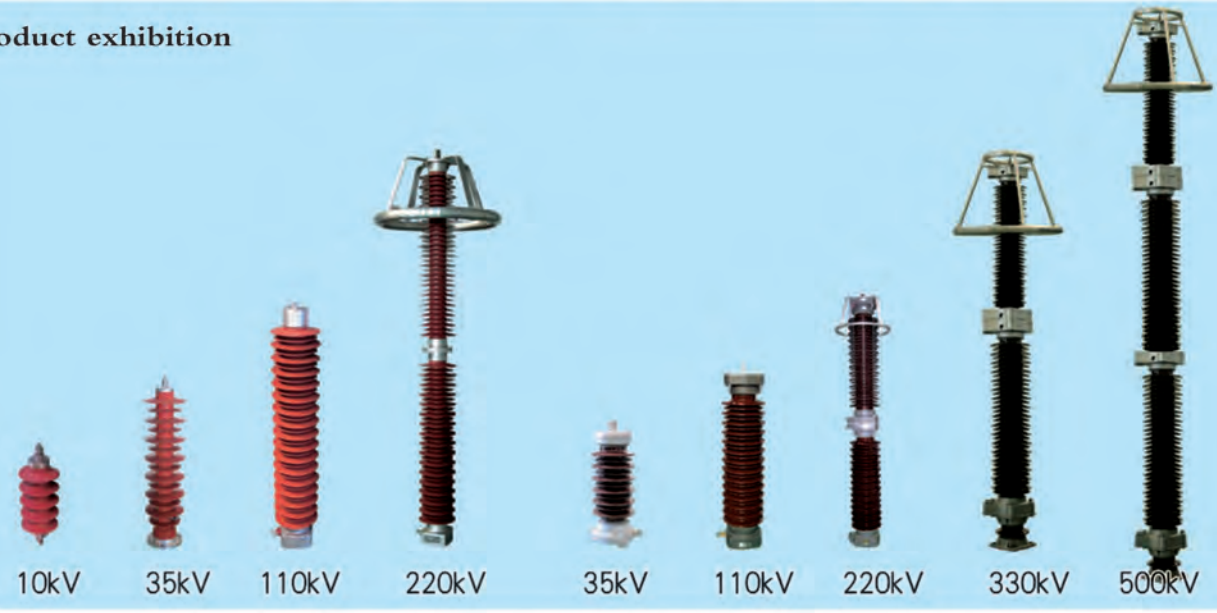

Y10WF—100/260S


Rubber injection molding machine


Rubber injection molding machine

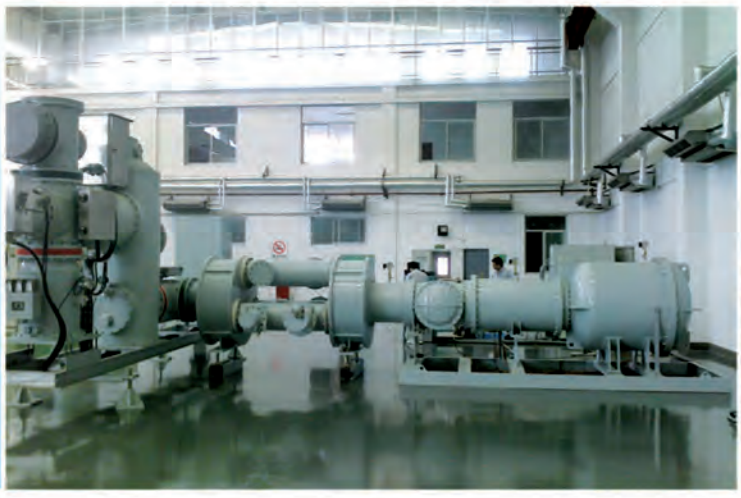

Testing area for zinc oxide blocks of surge arrester

Product exhibition



Testing equipment

Integrated testing machine (With test of withstand voltage partial discharge error and exciting integrated)



SF6 testing transformer

1200kV Standard vertical capacitor

Instrument transformer testing platform in all different working conditions

The high-volt testing equipments manufactured mainly include: AC voltage withstand apparatus, instrument transformer error testing equipment, scientific research platform for electrical equipment, standard quantity-transfer equipment, electrical teaching and practical training system and so on. Cooperating with China Electric Power Research Institute and other institutes, Shandong Taikai Instrument Transformer Co., Ltd developed 1000kV series of standard voltage transformer, inflatable resonance reactor, which filled the domestic gaps in the field and reached the internal advanced level.

Testing device for instrument transformer measuring test

Standard voltage transformer

Cast-resin type instrument transformer

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First printing in February, 2017.