CHINT

High Current Transformer
High Voltage Transformer
Capacitor Voltage Transformer

Brief Introduction

About CHINT Electric

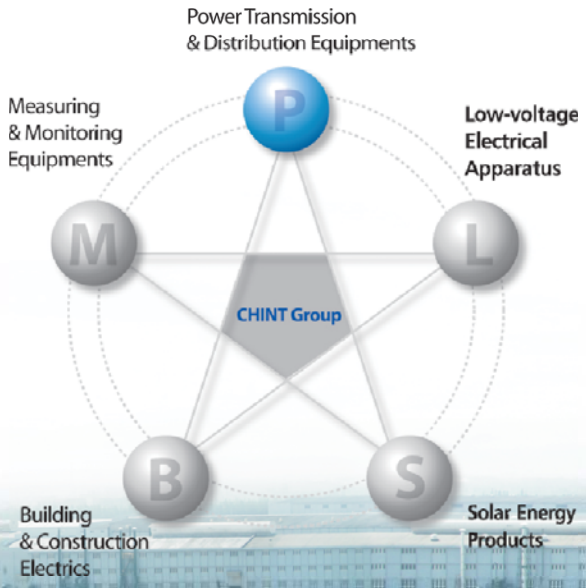
CHINT Electric is a subsidiary of CHINT Group Corporation. With an investment of 450 million USD, CHINT Electric possesses 3800 employees and 5 manufacturing business units with manufactory area of 900,000m^2 located in Shanghai, which is one of the world's largest power transmission & distribution equipments manufactory centers.

New Orders

Around 800 million USD in the year of 2014

Employee

3,800 employees



Product Range

- Power Transformer up to 750kV
- Distribution Transformer up to 35kV
- Dry-type Transformer up to 35kV
- Reactor up to 220kV
- GIS up to 252kV
- HV Circuit Breaker & Disconnector up to 252kV
- VCB 12~40.5kV
- MV & LV Switchgear Panel, Prifabricated Substation up to 40.5kV
- LV Terminal Box, Bus Bar Duct
- Surge Arrester & Insulator up to 550kV, CT & PT up to 220kV
- Power Distribution Automation System
- Cable up to 36kV
- Capacitor
- Turn-key Solution

About CHINT Group

- CHINT is the leading player in the Power Transmission & Distribution industry and Low-voltage electrics industry in China. Founded in 1984 by a few local entrepreneurs and currently hiring 29,000 employees worldwide.
  National Employment Advanced Corporate (China State Council, 2012)
- Ranked in The 2011 BCG 100 New Global Challengers
  (The Boston Consulting Group, 2011)
- CHINT Low-voltage Electrics launched IPO at the Shanghai Stock Exchange of China (2010)
- No.2 in China Electricity Industry's Top 10 Most Competitive Enterprises
  (China Machinery Industry Information Institute, 2009)
- No.3 in China Electricity Industry(China Machinery Industry Information Institute, 2009)
- No.240 in Top 500 Chinese-Companies (China Enterprise Federation, 2009).
- No.1 in Power T&D and the controlling devices (China Machinery Summit, 2009)
- Ranked in Top 100 Best Employers in China (China Entrepreneurs Summit, 2008)
- No.15 in Top 100 Private & Public Companies in China (Forbes, 2006)
- National Quality Management Award(2004) (One of top honours for manufacturing companies in China)
- Worldwide business operation with 2,000 sales offices, agents, distributors, and local partners in domestic Chinese market and distributors & local partners in over 105 countries. International branches or regional offices set up in USA, UAE, Germany, Russia, Brazil, Ukraine, Hong Kong of China, UK and Nigeria.
- CHINT stretches its business to a new frontier of solar energy by setting up a branch company specialized in the solar energy products development.
- The R&D center of CHINT is recognized as the National Level R&D Center run by the companies, which means the R&D level of CHINT Group has reached the leading position in the industry of China.

Sales References

With a worldwide presence in over 130 countries such as, Italy, Germany, Estonia, USA, Russia, Japan, Australia, Saudi Arabia, Poland, Ukraine, Mongolia, Kazakhstan, Pakistan, Indonesia, Thailand, Egypt, Algeria, Morocco, Congo, Tanzania, Mali, Zambia, Kenya, South Africa, Ghana, Nigeria, Colombia, etc, CHINT Electric provides reliable and high-qualified products and solutions to clients engaged in different businesses.






Utility User

Application: *cooperation with National Electricity Companies in over 84 countries for power generation, transmission and distribution.*

Europe

- *EAC-Cyprus*
  Products: Cable.
- *Eesti Energia-Estonia*
  Products: Power transformer.
- *EMS-Serbia*
  Products: Power transformer.
- *ENEL-Italy*
  Products: Distribution transformer, cable.
- *Fingrid-Finland*
  Products: Distribution transformer.
- *HS ORKA HF-Iceland*
  Products: Power transformer.
- *PPC-Greece*
  Products: Power transformer, cable.
- *NEC-Bulgaria*
  Products: VCB.

Latin America

- *BPC-Bhutan*
  Products: Surge arrester.
- *CELEC S.P.-Ecuador*
  Products: Power transformer.
- *CNEL-Ecuador*
  Products: Power transformer.
- *ELCOSA-Honduras*
  Products: Power transformer.
- *Enersis-Chile*
  Products: Power transformer, surge arrester, insulator, SF_6 circuit breaker.
- *ENDESA-Chile*
  Products: Power transformer, surge arrester, insulator, SF_6 circuit breaker.
- *ICE-Costa Rica*
  Products: Power transformer.
- *PREPA-Puerto Rico*
  Products: Surge Arrester.

North America

- *Val Jalbert Mini Hydro Central- Canada*
  Products: Reactor
- *PREPA-Puerto Rico*
  Products : Power transformer; CT&PT
- *APR Energy-America*
  Products: Voltage transformer

Asia-pacific

- *EVN-Vietnam*
  Products: Switch disconnector, power transformer, etc.
- *Kamoki-Pakistan*
  Products: Substation turn-key project.
- *NEA-Nepal*
  Products: Substation turn-key project.
- *NTDC-Pakistan*
  Products: Substation turn-key project.
- *QESCO-Pakistan*
  Products: Surge arrester.
- *TEPCO-Japan*
  Products: Power transformer, circuit breaker, disconnector and CT&PT.
- *NGCP-Philippines*
  Products: Capacitor

More >>>

Africa

- *EEPCO-Ethiopia*
  Products: HV Circuit breaker, disconnector, earthing switch, surge arrester, insulator, CT.
- *KPLC-Kenya*
  Products: Cut-out fuse, surge arrester, insulator.
- *ENE-Angola*
  Products: GIS.
- *JIRAMA-Madagascar*
  Products: Reactor.
- *PHCN-Nigeria*
  Products: Transformer protection & control panel.
- *RECO-Rwanda*
  Products: Distribution transformer, etc.
- *REGIDESO-Burundi*
  Products: Power transformer, distribution transformer.
- *SBEE-Benin*
  Products: Power transformer.
- *SNEL-D.R. Congo*
  Products: Power transformer.
- *SONABEL-Burkina Faso*
  Products: Power transformer, reactor.
- *TANESCO-Tanzania*
  Products: Substation turn-key project.
- *VRA-Ghana*
  Products: MV switchgear, DC panel, disconnector.
- *ZESCO-Zambia*
  Products: CT-VT metering unit.

Middle-east

- *NEPCO-Jordan*
  Products: Power transformer, earthing transformer.
- *ONEC-Oman*
  Products: Power transformer.
- *TEIAS-Turkey*
  Products: Surge arrester, insulator.
- *WARD-Lebanon*
  Products: SF_6 circuit breaker, disconnector, surge arrester, insulator.

CIS

- *ENA-Armenia*
  Products: HV circuit breaker, disconnector, CT, etc.
- *Kiev Boryspil International Airport-Ukraine*
  Products: Power transformer, GIS, etc.
- *TORGOVYIDOM STROJPODSTANZII-Russia*
  Products: Current transformer

More >>>

Global Operation in Over 130 Countries

Industrial End User

Application: *widely applicable for mining, iron-steel, cement, metallurgy, chemical, railway, petroleum, paper, power generation industries, etc.*

Mining Industry

- *BHP Billiton-Australia*
  Products: CT& PT, distribution transformer, etc.
- *Rio Tinto-Australia*
  Products: Distribution transformer, CT.
- *FMG-Australia*
  Products: Power transformer.

Iron-steel Industry

- *JFE Steel-Japan*
  Products: Disconnector.
- *Bao Steel-China*
  Products: Power transformer, MV switchgear panel.

Cement Industry

- *Serebryabskiy Cement Plant-Russia*
  Products: HV capacity compensation device, HV capacitor.
- *Viet Quang Cement Plant-Vietnam*
  Products: Power transformer, HV circuit breaker, disconnector, MV&LV switchgear panel.

Petroleum & Gas Industry

- *Chevron-USA*
  Products: Switchgear panel, distribution transformer.
- *PDVSA-Venezuela*
  Products: Power transformer, distribution transformer.
- *CNPC-China*
  Products: Power transformer, GIS, MV switchgear panel.

Power Rental Industry

- *Aggreko-UK*
  Products: Power transformer.
- *APR Energy-USA*
  Products: Power transformer, HV circuit breaker, disconnector, CT, PT.

Paper Industry

- *VISY-Australia*
  Products: Switchgear panel
- *UPM-Finland*
  Products: MV switchgear panel.

Chemical Industry

- *Saint Gobain-France*
  Products: Power transformer, MV switchgear panel, cable, busduct.
- *INVISTA-USA*
  Products: Distribution transformer, switchgear panel, DC panel.

Power Generation

- *TATA Power-India*
  Products: Power transformer.
- *SIBAYAK Geothermal Power Plant-Indonesia*
  Products: MV&LV switchgear panel, surge arrester, insulator, CT, VCB.

Commercial & Civil Construction

- *Shangri-la Hotel-Philippine*
  Products: Distribution transformer.
- *Kiev Boryspil International Airport-Ukraine*
  Products: GIS.

Shipbuilding Industry

- *Fincantieri-Italy*
  Products: Power transformer.

More >>>

Engineering & Contracting

- *EIFFAGE-France*
  Products: Power transformer, reactor.
- *FLUOR-USA*
  Products: Power transformer.
- *SMS Siemag-Germany*
  Products: Distribution transformer, switchgear panel
- *Bouygues Group-France*
  Products: Disconnector, current transformer
- *Isolux Corsan-Spain*
  Products: Reactor, capacitor, surge arrester

More >>>

Turn-key Project

- *Kamoki-Pakistan*
  Projects: 230kV substation EPC.
- *Saint Gobain-France*
  Projects: 35kV substation EPC.
- *NEA-Nepal*
  Projects: 132kV and 33kV substation EPC.
- *SMCO-D.R. Congo*
  Projects: 220kV substation EPC.
- *TANESCO-Tanzania*
  Projects: 35kV and 66kV substation EPC.
- *NTDC-Pakistan*
  Projects: 220kV substation EPC.
- *Rohri-Pakistan*
  Projects: 220kV substation EPC
- *Mabuki-Tanzania*
  Projects: 220kV,132kV and 33kV substation EPC
- *KPLC-Kenya*
  Projects: 132kV and 33kV substation EPC
- *Dodoma-Tanzania*
  Projects: 220kV substation EPC
- *Mbeya-Tanzania*
  Projects: 220kV substation EPC
- *Shikapur-Pakistan*
  Projects: 220kV substation EPC

More >>>

Sales References

CT & PT

CHINT Electric Current Transformer and Voltage Transformer are widely adopted by Utility Users from Bulgaria, Japan, Ethiopia, Zambia, Lebanon, Tanzania, Nigeria, Senegal, etc.; Industrial End Users from Australia, Bolivia, Ghana, etc.



Utility User

- Natsionalna Elektricheska Kompania EAD (NEC)-Bulgaria
- Tokyo Electric Power Company (TEPCO)-Japan
- Ethiopian Electric Power Corporation (EEPCO)-Ethiopia
- Zambia Electricity Supply Corporation Limited (ZESCO)-Zambia
- Water Resources Utilization Department (WARD)-Lebanon
- Tanzania Electric Supply Company (TANESCO)-Tanzania
- Power Holding Company of Nigeria (PHCN)-Nigeria
- Société Nationale d'Electricité du Sénégal-Senegal
- Ministry of Electric Power No.(1)-Myanmar
- Myanmar Electric Power Enterprise (MEPE)-Myanmar

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Industrial End User

- BHP Billiton-Australia
- Rio Tinto-Australia
- General Electric International Inc-Bolivia
- FORCLUM-Ghana
- Mcs-Mongolia

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※ Note: Contact us for more information.


Contents

CT PT CVT

LB7-66~110(TA,TH)(GY)(W1,W2,W3)
LB9-132~330(TA,TH)(GY)(W1,W2,W3)
Series Current Transformer

1 Applicable Standard

- IEC 61869-1-2007 Instrument transformers - Part 1: General requirements
- IEC 61869-2-2012 Instrument transformers - Part 2: Additional requirements for current transformers

2 Operation Conditions

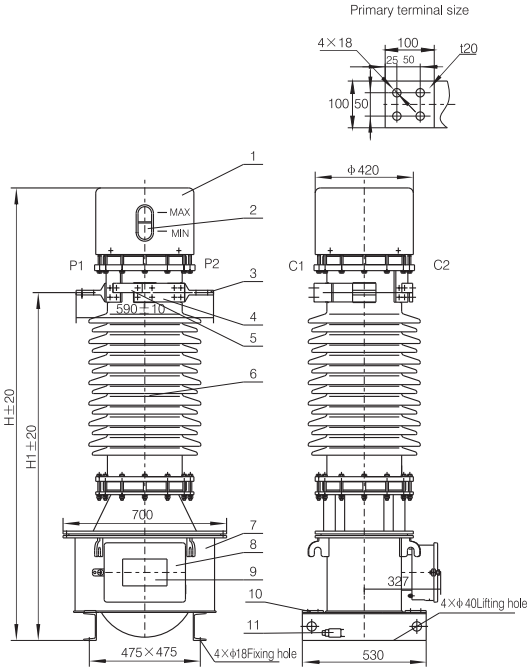
- Ambient temperature: -40~+40℃;
- Altitude: ≤2500m
- Pollution Level: Ⅱ、Ⅲ、Ⅳ。

3 Technical Parameters

No	Item	Data						
1	Rated frequent (Hz)	50；60						
2	Rated voltage (kV)	66	110	132	150	220	275	330
3	Max voltage (kV)	72.5	126	145	170	252	300	362
4	Rated power frequency withstand voltage (kV)	160	230	275	325	460	460	510
5	Rated lightening impulse withstand voltage (kV)	350	550	650	750	1050	1050	1175
6	Rated switching impulse withstand voltage (kV)						850	950
7	Arcing distance (mm)	700	1050	1300	1400	2000	2200	2650
8	Creepage distance (mm)	1820 2250	3150 3910	3630 4500	4250 5270	6300 7820	7500 9300	9050 11230
9	echanical load (N)	2000	2000	3000	3000	3000	3000	3000
10	Rated primary current (A)	50~ 1600	50~ 1600	50~ 1600	150~ 2000	150~ 2000	150~ 2000	150~ 2000
11	Rated secondary current (A)	1；5						
12	Accuracy class	0.1；0.2；0.5；0.2S；0.5S；5P；10P；TPS；PX…						
13	Rated output (VA)	1A：10~15 VA；5A：30~50VA						
14	Safety factor (FS)	5；10						
15	Accurate limit coefficient (ALF)	10，15，20，25，30						
16	Short-time thermal current(Max) (kA)	50kA/3s						
17	Dynamic current(Max) (kA)	125						

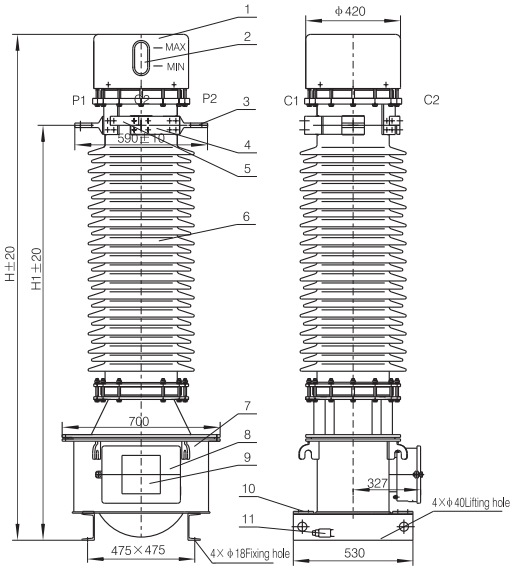
4 Outline and Mounting Dimensions

1. Expander
2. Oil level sight hole
3. Primary outlet terminal
4. Connecting Plate
5. Equipotential connection piece
6. Porcelain bushing
7. Oil tank
8. Secondary wiring Box
9. Nameplates
10. Earth plate
11. Oil drain valve



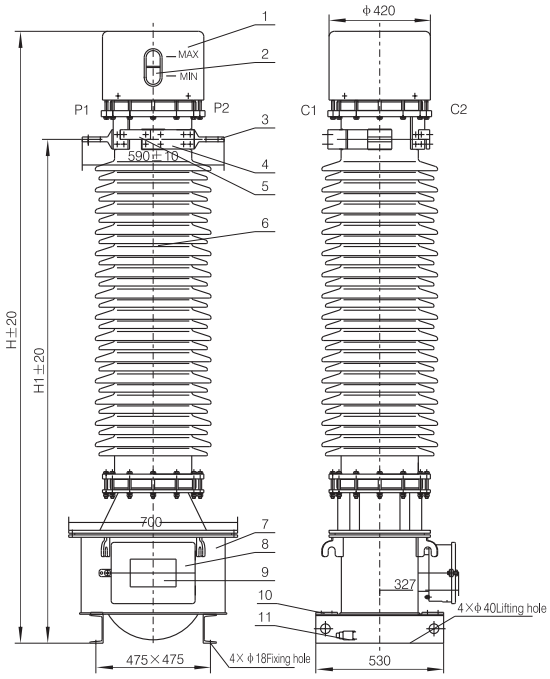
LB7-66

Rated primary current(A)	H	H1	Load(kg)	Gross weight(kg)
≤2×800	1935	1490	70	450



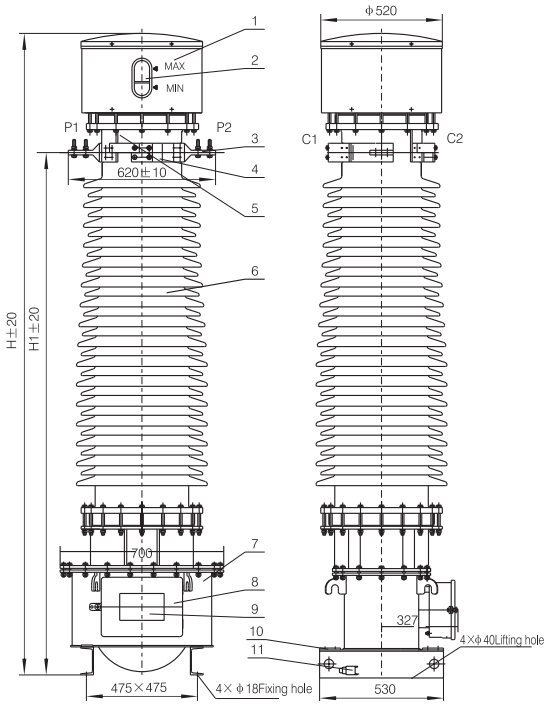
LB7-110

Rated primary current(A)	H	H1	Load(kg)	Gross weight(kg)
≤2×800	2285	1840	80	480



LB9-132

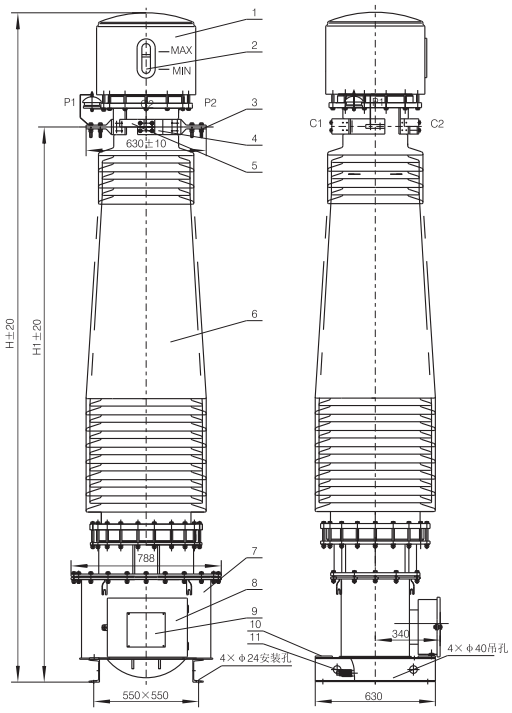
Rated primary current(A)	H	H1	Load(kg)	Gross weight(kg)
≤2×800	2535	2090	90	520



LB9-150

Rated primary current(A)	H	H1	Load(kg)	Gross weight(kg)
≤2×800	2820	2310	140	680

High Current Transformer



LB9-220

Rated primary current(A)	H	H1	Load(kg)	Gross weight(kg)
≤2×800	3520	2920	210	930

JDCF-66~220(TA,TH)(GY)(W1,W2,W3) Series Voltage Transformer

1 Applicable Standard

- IEC 61869-1-2007 Instrument transformers - Part 1: General requirements
- IEC 61869-3-2011 Instrument transformers - Part 3: Additional requirements for inductive

2 Operation Conditions

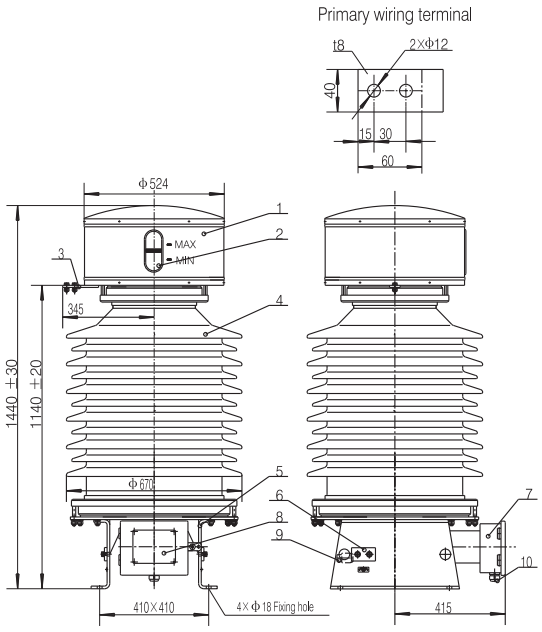
- Ambient temperature: -40~+40℃;
- Altitude: ≤2500m
- Pollution Level: Ⅱ、Ⅲ、Ⅳ。

3 Technical Parameters

No	Item	Data				
1	Rated frequent (Hz)	50; 60				
2	Rated voltage (kV)	66	110	132	150	220
3	Max voltage (kV)	72.5	126	145	170	252
4	Rated power frequency withstand voltage (kV)	160	230	275	325	460
5	Rated lightening impulse withstand voltage(kV)	350	550	650	750	1050
6	Arcing distance (mm)	700	1000	1320	1450	2250
7	Creepage distance(mm)	1820	3150	3630	4250	6300
		2250	3910	4500	5270	7820
8	Mechanical load (N)	1250	1250	1250	1250	2500
9	Rated primary voltage (kV)	$66/\sqrt{3}$	$110/\sqrt{3}$	$132/\sqrt{3}$	$150/\sqrt{3}$	$220/\sqrt{3}$
10	Secondary terminal sign	1a-1n		2a-2n		da-dn
11	Rated secondary voltage (kV)	$0.1/\sqrt{3}$		$0.1/\sqrt{3}$		0.1/3(66kV)
						0.1 (110~220kV)
12	Accuracy class	0.2		0.5		3P
13	Rated output (VA)	100		250		300
		150		150		300
		150		-		300
14	Thermal limiting output	2000				
15	Rated voltage factor	1.2/Continuous; 1.9/8h (66kV)				
		1.2/Continuous; 1.5/30s(110~220kV)				
16	Dielectric dissipation factortg δ, Under the 10kV	Whole tg δ ≤0.02; Holder tg δ ≤0.05				

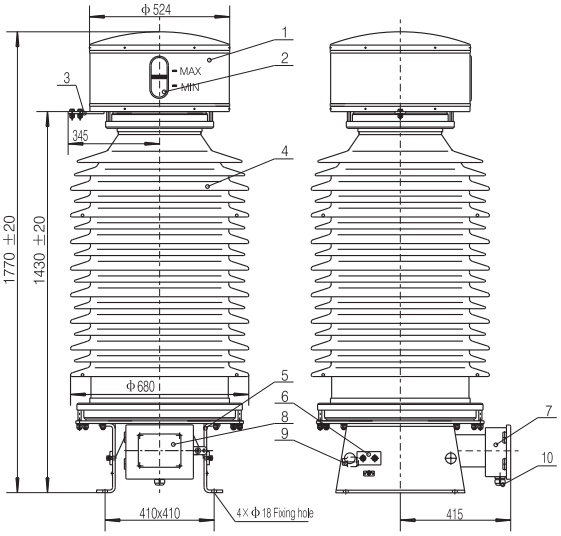
4 Outline and Mounting Dimensions

1. Expander
2. Oil level sight hole
3. Primary outlet terminal
4. Porcelain bushing
5. Base
6. Earth plate
7. Secondary outlet box
8. Nameplates
9. Oil drain valve



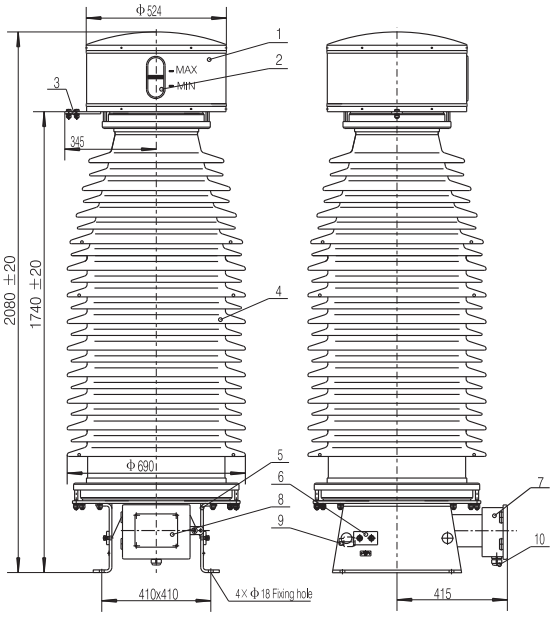
JDCF-66

Load：90kg Gross weight：530kg



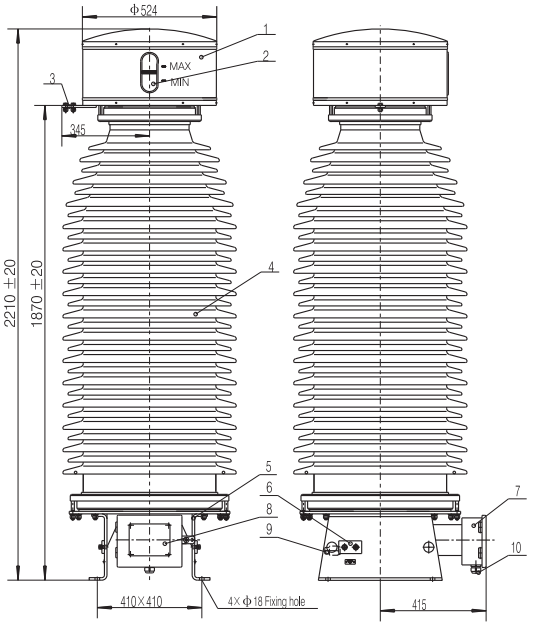
JDCF-110

Load：140kg Gross weight：640kg



JDCF-132、145

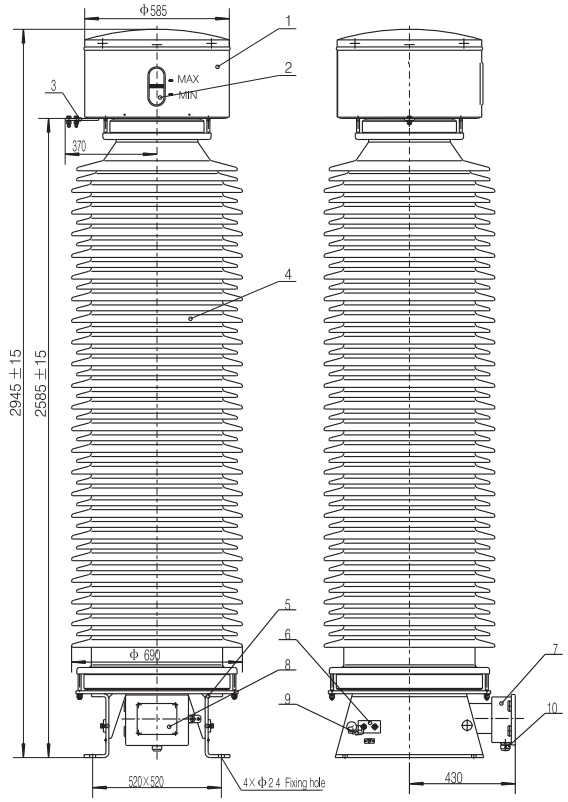
Load:165kg Gross weight:720kg



JDCF-150、170

Load:180kg Gross weight:735kg

High Voltage Transformer



JDCF-220

Load:295kg Gross weight:1250kg

LVQB7-35～220 (TA,TH)(GY)(W1,W2,W3) SF_6 Current Transformer

1 Applicable Standard

- IEC 61869-1-2007 Instrument transformers - Part1: General requirements
- IEC 61869-2-2012 Instrument transformers - Part2: Additional requirements for current transformers

2 Operation Conditions

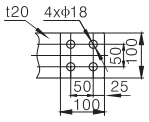
- Ambient temperature: -30～+40℃;
- Altitude: ≤2000m
- Pollution Level: Ⅱ、Ⅲ、Ⅳ。

3 Technical Parameters

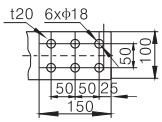
No	Item	Data			
1	Rated frequent (Hz)	50；60			
2	Rated voltage (kV)	35	110	132	220
3	Max voltage (kV)	40.5	126	145	252
4	Rated power frequency withstand voltage (kV)	95	230	275	460
5	Rated lightening impulse withstand voltage (kV)	200	550	650	1050
6	Arcing distance (mm)	450	1050	1300	2000
7	Creepage distance (mm)	1013；1256	3150；3910	3630；4500	6300；7820
8	Mechanical load (N)	2000	2000	3000	3000
9	Rated primary current (A)	200～3000	200～3000	200～3000	200～3000
10	Rated secondary current (A)	1；5			
11	Accuracy class	0.1；0.2；0.5；0.2S；0.5S；5P；10P； TPS；PX…			
12	Rated output (VA)	1A：10～15 VA；5A：30～50VA			
13	Safety factor (FS)	5；10			
14	Accurate limit coefficient (ALF)	10，15，20，25，30			
15	Short-time thermal current (kA)	50kA/3s			
16	Dynamic current (kA)	125			
17	SF_6 rated gas pressure (20℃)	0.4 MPa			
18	Superfeed pressure (20℃)	0.35 MPa			

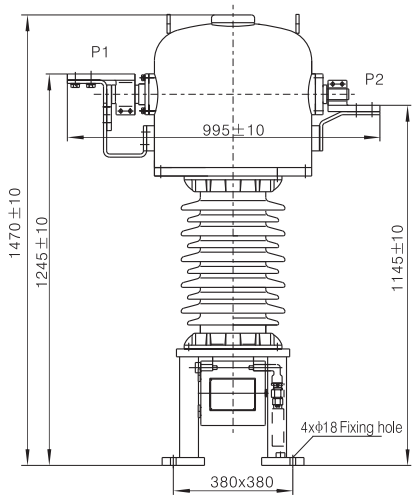
4 Outline and Mounting Dimensions

Primary wiring plate (35-132kV)

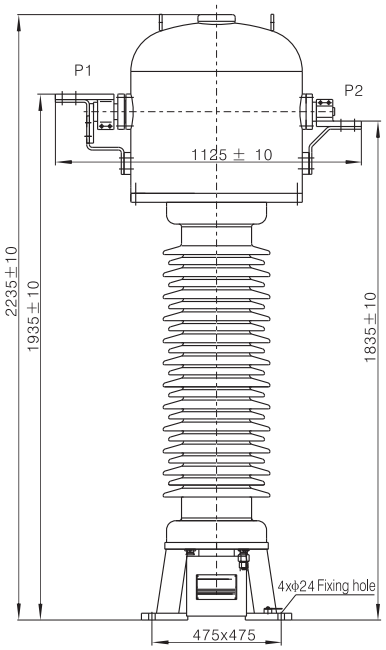


Primary wiring plate (220kV)

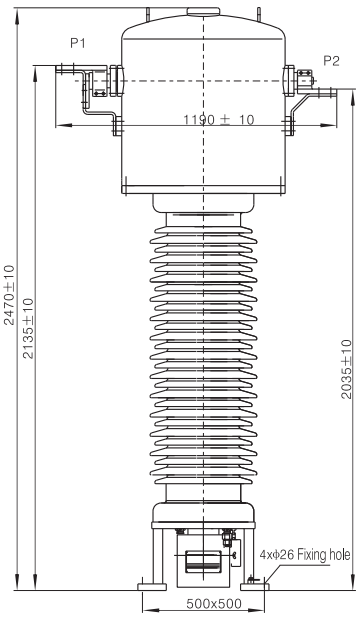




LVQB7-35



LVQB7-110



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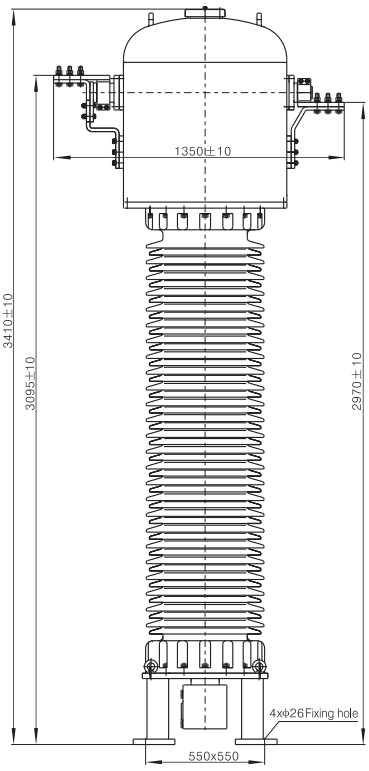


LVQB7-220

JDQXF-35～220(GY)(W1,W2,W3) Series Voltage Transformer

1 Applicable Standard

- IEC 61869-1-2007 Instrument transformers - Part 1: General requirements
- IEC 61869-3-2011 Instrument transformers - Part 3: Additional requirements for inductive

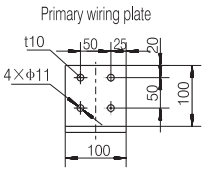
2 Operation Conditions

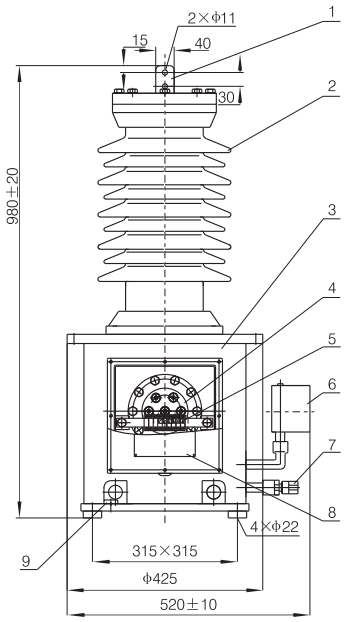
- Ambient temperature: -30～+40℃;
- Altitude: ≤2000m
- Pollution Level: II、III、IV。

3 Technical Parameters

No	Item	Data		
1	Rated frequent (Hz)	50；60		
2	Rated voltage (kV)	35	110	220
3	Max voltage (kV)	40.5	126	252
4	Rated power frequency withstand voltage (kV)	95	230	460
5	Rated lightening impulse withstand voltage (kV)	200	550	1050
6	Arcing distance (mm)	450	1180	2030
7	Creepage distance (mm)	1013；1256	3150；3910	6300；7820
8	Mechanical load (N)	2000	2000	2000
9	Rated primary voltage (kV)	35/ √3	110/ √3	220/ √3
10	Secondary terminal sign	1a-1n	2a-2n	da-dn
11	Rated secondary voltage (kV)	0.1/ √3	0.1/ √3	0.1/3；0.1
12	Accuracy class	0.2	0.5	3P
13	Rated output (VA)	50	50	100
		100	150	300
		150	150	300
		150	-	300
14	Thermal limiting output (VA)	2000		
15	Rated voltage factor	1.2/Continuous；1.9/8h (35kV)		
		1.2/Continuous；1.5/30s(110～220kV)		
16	SF_6 rated gas pressure (20℃) (Mpa)	0.45		
17	SF_6 superfeed pressure (20℃) (Mpa)	0.4		
18	SF_6 leak rate	≤0.5%		

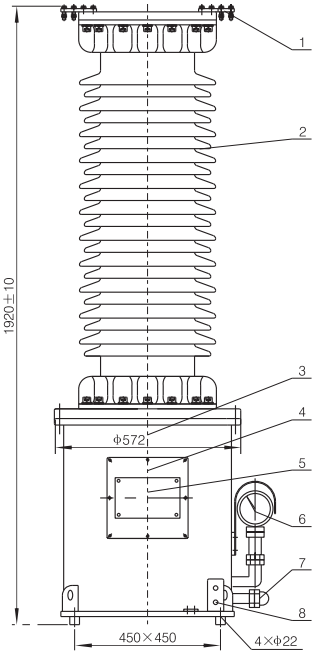
4 Outline and Mounting Dimensions





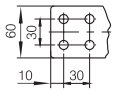
1. Primary terminal
2. Porcelain bushing
3. Tank
4. Secondary terminal plate
5. Secondary wiring terminal
6. Density relays
7. Bleed valve filling
8. Nameplates
9. Earthing bolt

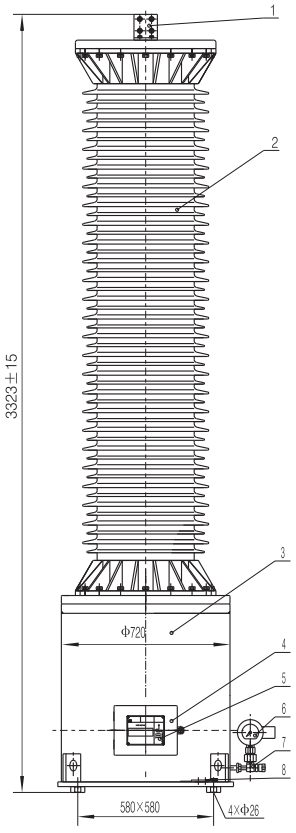
JDQXF-35 SF_6



JDQXF-110 SF_6

1. Terminal board
2. Silicone rubber tube
3. Shell
4. Secondary outlet box
5. Nameplates
6. SF_6 Pressure gauge
7. Charge valve
8. Earth plate





JDQXF-220 SF_6

LVB(T)1-35 ~ 275(GY)(W1,W2,W3) Series Current Transformer

1 Applicable Standard

- IEC 61869-1-2007 Instrument transformers - Part1： General requirements
- IEC 61869-2-2012 Instrument transformers - Part1： Additional requirements for current transformers
- IEC 60044-6:1992, Instrument transformers - Part 6: Requirements for protective current transformers for transient performance

2 Operation Conditions

- Ambient temperature: -40~+40℃；
- Altitude: ≤2500m
- Pollution Level： II、III、IV。

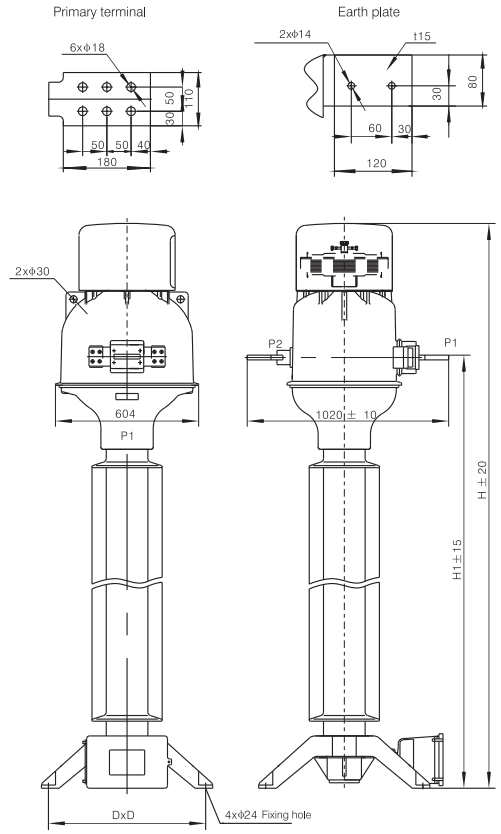
3 Technical Parameters

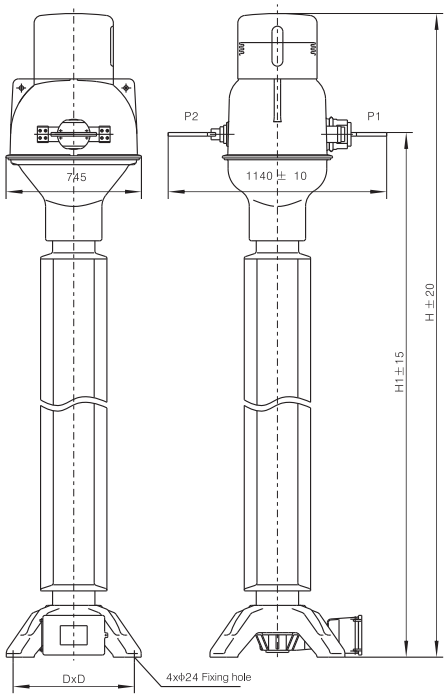
No	Item	Data						
1	Rated frequent (Hz)	50；60						
2	Rated voltage (kV)	35	66	110	132	150	220	275
3	Max voltage (kV)	40.5	72.5	126	145	170	252	300
4	Rated power frequency withstand voltage (kV)	95	160	230	275	325	460	460
5	Rated lightening impulse withstand voltage (kV)	185	350	550	650	750	1050	1050
6	Rated switching impulse withstand voltage (kV)							850
7	Arcing distance (mm)	500	700	1200	1300	1400	2000	2200
8	Creepage distance (mm)	1020	1820	3150	3630	4250	6300	7500
		1260	2250	3910	4500	5270	7820	9300
9	Mechanical load (N)	3000	3000	3000	3000	3000	4000	4000
10	Rated primary current (A)	50~5000				100~5000		
11	Rated secondary current (A)	1；5						
12	Accuracy class	0.1；0.2；0.5；0.2S；0.5S；0.5S；5P；10P；TPY；TPS；PX…						
13	Rated output (VA)	1A：10~15 VA				5A：30~50VA		
14	Safety factor (FS)	5；10						
15	Accurate limit coefficient (ALF)	10，15，20，25，30						
16	Short-time thermal current(Max) (kA)	63kA/3s						
17	Dynamic current(Max) (kA)	160						

Technical Parameters of winding transient protection

No	Item	Data
1	Accuracy class	TPY
2	Rated current rate (A)	1000~8000/1
3	Rated resistive load (Rb) Ω	7.5；10；15；20
4	Rated symmetrical short-circuit current Kssc	10；15；20
5	Rated primary time constant Tp (ms)	40；60；80；100
6	Working cycle	C-0.1s-O
		C-0.1(0.04)s-O
		C-0.1(0.04)s-O-0.5s-C-0.1(0.04)s-O

4 Outline and Mounting Dimensions





A Type

Type spec	H	H1	Load(kg)	Gross weight(kg)	DxD
LVB1- 35	1750	1125	60	360	475x475
LVB1- 66	1950	1325	60	380	
LVB1- 110	2450	1825	90	420	
LVB1- 132					
LVB1- 150	2900	2270	90	450	600x600
LVB1- 220	3600	2970	100	540	

B Type

Type spec	H	H1	Load(kg)	Gross weight(kg)	DxD
LVB1- 35	1970	1295	100	420	475x475
LVB1- 66	2170	1495	100	450	
LVB1- 110	2670	1995	130	500	
LVB1- 132					
LVB1- 150	3045	2380	160	650	600x600
LVB1- 220	3745	3080	180	750	

TYD35~220/√3 Capacitor Voltage Transformer

1 Applicable Standard

- IEC 61869-1-2007 Instrument transformers - Part1: General requirements
- IEC 61869-5-2011 Instrument transformers - Part5: Additional requirements for capacitor voltage transformers

2 Operation Conditions

- Ambient temperature: -40~+40℃;
- Altitude: ≤2000m
- Pollution Level: Ⅱ、Ⅲ、Ⅳ。

3 Technical Parameters

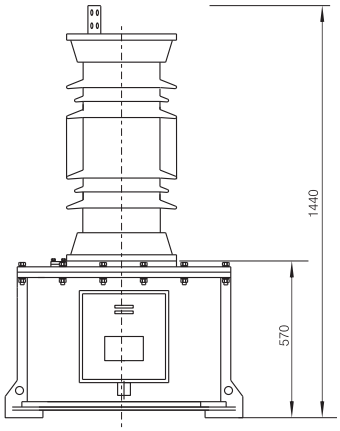
3.1 Main Technical Parameters of System Overview

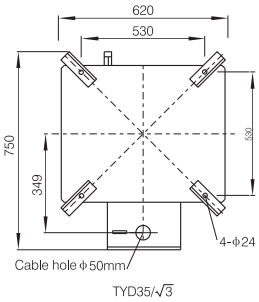
No	Item	Data	
1	Rated frequent (Hz)	50; 60	
2	Rated primary voltage (kV)	35/√3~66/√3	110/√3~220/√3
3	Rated secondary Voltage (kV)	0.1/√3	0.1/√3
4	Residual voltage winding (kV)	0.1/3	0.1
5	Neutral point grounded(Yes/No)	No	Yes

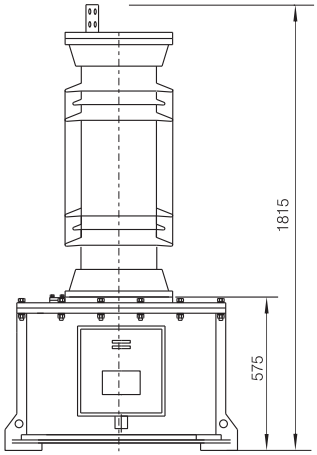
3.2 Main Technical Parameters of Capacitor Voltage Transformer

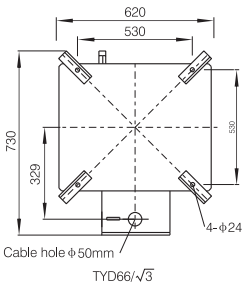
No	Type	Highest voltage of a system (kV)	Rated insulation level(kV)		Rated load(VA)			Gross weight (kg)
			High-voltage test with working frequency	lighting impulse	Measurement	Surveying & protection	Surplus	
					0.2	0.5(3P)	3P	
1	TYD35/√3-0.01H	40.5	80(95)	185(200)	/	100	100	500
2	TYD35/√3-0.02H				50	50	100	510
3	TYD66/√3-0.01H	72.5	140(160)	325(350)	/	150	100	610
4	TYD66/√3-0.02H				150	150	100	650
5	TYD110/√3-0.01H	126	200(230)	480(550)	/	150	100	610
6	TYD110/√3-0.02H				100	100	100	650
7	TYD220/√3-0.005H	252	395(460)	950(1050)	/	150	100	840
8	TYD220/√3-0.01H				100	100	100	940

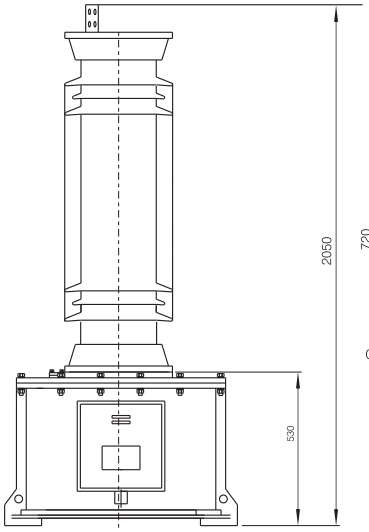
4 Outline and Mounting Dimensions

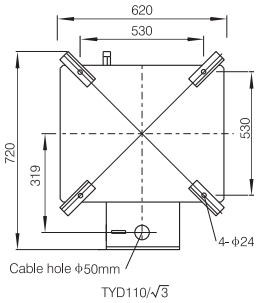


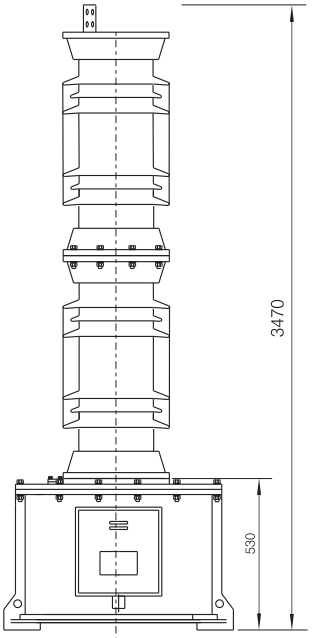


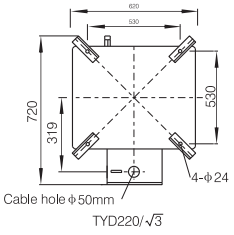


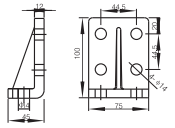


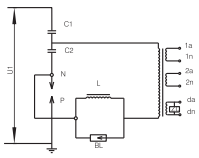












T Middle transformer 1a,1n Secondary winding 1#
L Compensating reactor 2a,2n Secondary winding 2#
ZD Damper
BL Surge arrester Da,dn Residual voltage winding
N Capacitive voltage divider low pressure side
P Capacitor low side for protection

Primary schematic diagram

LGB-35~220(GY)(W1,W2,W3) Series Current Transformer

1 Applicable Standard

- IEC 61869-1-2007 Instrument transformers - Part1: General requirements
- IEC 61869-2-2012 Instrument transformers - Part2: Additional requirements for current transformers

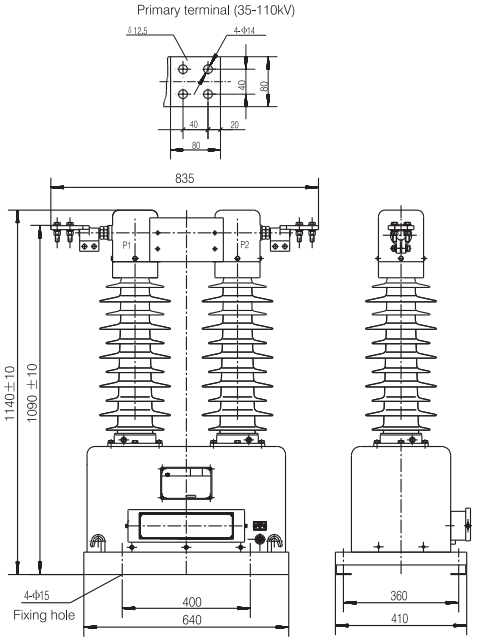
2 Operation Conditions

- Ambient temperature: -40~+40℃;
- Altitude: ≤2500m
- Pollution Level: II、III、IV。

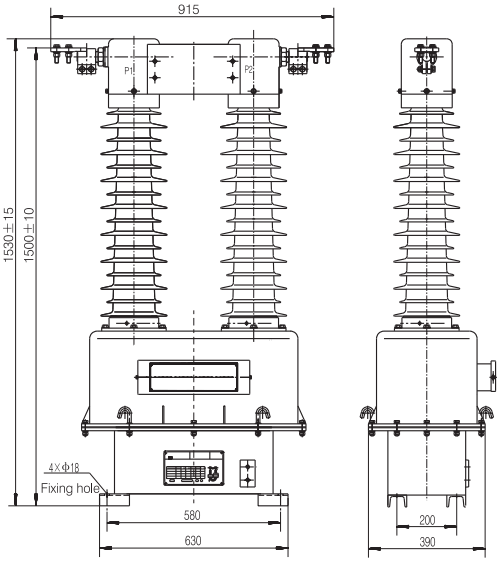
3 Technical Parameters

No	Item	Data			
1	Rated frequent (Hz)	50；60			
2	Rated voltage (kV)	35	66	110	220
3	Max voltage (kV)	40.5	72.5	126	245
4	Rated power frequency withstand voltage (kV)	95	160	230	460
5	Rated lightening impulse withstand voltage (kV)	185	350	550	1050
6	Arcing distance (mm)	460	700	1050	2100
7	Creepage distance (mm)	1020	1820	3150	6300
		1260	2250	3910	7820
8	Mechanical load (N)	2000			
9	Rated primary current (A)	5~2500			
10	Rated secondary current (A)	1；5			
11	Accuracy class	0.1；0.2；0.5；0.2S；0.5S；0.5S；5P；10P；PX…			
12	Rated output (VA)	1A：10~15 VA 5A：30~50VA			
13	Safety factor (FS)	5；10			
14	Accurate limit coefficient (ALF)	10，15，20，25，30			
15	Short-time thermal current(Max) (kA)	63kA/3s			
16	Dynamic current(Max) (kA)	160			

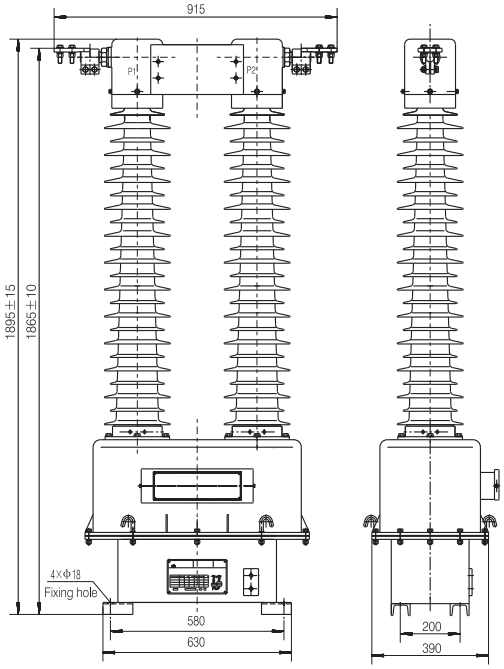
4 Outline and Mounting Dimensions



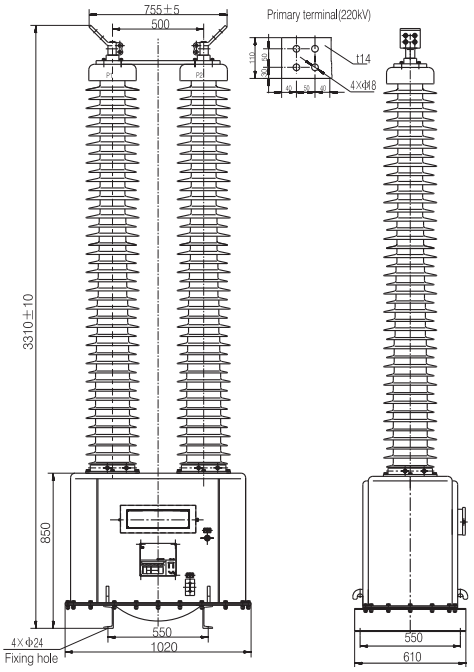
LGB-35



LGB-66



LGB-110



LGB-220

LB6-35(TA,TH)(GY)(W1,W2,W3) Series Current Transformer

1 Applicable Standard

- IEC 61869-1-2007 Instrument transformers - Part1: General requirements
- IEC 61869-2-2012 Instrument transformers - Part2: Additional requirements for current transformers

2 Operation Conditions

- Ambient temperature: -40～+40℃;
- Altitude: ≤2500m
- Pollution Level: Ⅱ、Ⅲ、Ⅳ。

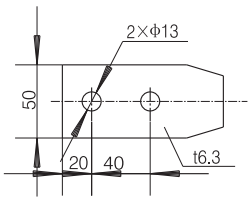
3 Technical Parameters

No	Item	Data
1	Rated voltage (kV)	35
2	Max voltage (kV)	40.5
3	Rated frequent (Hz)	50 or 60
4	Rated current rate	5～2000 /5 or 1
5	Numbers of secondary winding	1～4
6	Measurement of winding level	0.2，0.2S，0.5，0.5S
7	Protect the winding level	5P or 10P
8	Rated secondary outlet	20～50
9	Accurate limit coefficient (ALF)	15，20，25，30
10	Safety factor (FS)	≤5 or 10
11	Partial discharge level 1.2Um/$\sqrt{3}$kV (pC)	≤5
12	Dielectric dissipation factor tg δ，10kV～Um/$\sqrt{3}$kV	≤0.02
13	External insulation creepage distance (mm)	W1/810
		W2/1020
		W3/1260
14	Rated power frequency withstand voltage (kV)	95(Root mean square value)
15	Rated lightening impulse withstand voltage (kV)	185(Peak)
16	Primary winding rated power frequency withstand voltage (kV)	3 (Root mean square value)
17	Secondary winding rated power frequency withstand voltage (kV)	3 (Root mean square value)
18	Secondary winding interturn withstand voltage (kV)	4.5 (Peak)
19	Mechanical strength (N)	1250

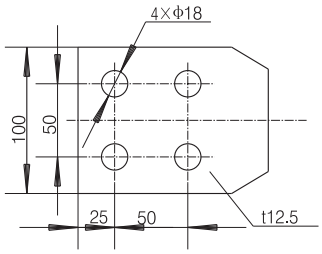
Rated primary current (A)	Rated short-time thermal current (kA)	Rated dynamic current (kA)
5	0.5	1.28
10	1.0	2.56
15	1.5	3.83
20	2.0	5.1
30	3.0	7.65
40	4.0	10.2
50	5.0	12.75
75	7.5	19.13
100	10	25.5
150	15	38.3
200	20	51
300	30	76.5
400	40	102
500	40	102
600	40	102
750	40	102
800	40	102
1000	40	102
1500	40	102
2000	40	102

4 Outline and Mounting Dimensions

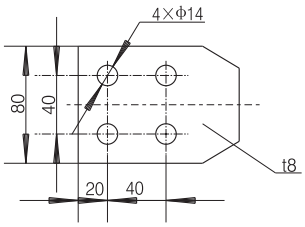
Primary terminal



Primary current：5-600A

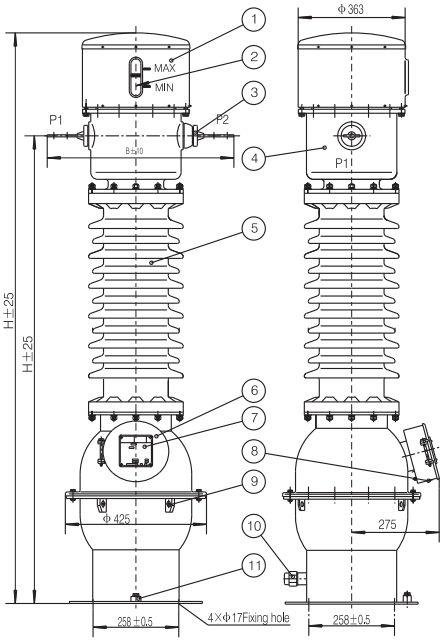


Primary current：1500-2000A



Primary current：750-1200A

1. Expander
2. Oil level sight hole
3. Primary terminal
4. Oil conservator
5. Porcelain bushing
6. Secondary wiring Box
7. Nameplates
8. Secondary outlet hole
9. Lifting hole
10. Oil drain valve
11. Earthing bolt



Rated primary current	5-500	600-1000	1200-1600	2000
H	W1 1610;W2(W3)/GYW 1710			W1 1635;W2(W3)/GYW 1735
h	W1 1305;W2(W3)/GYW 1405			W1 1330;W2(W3)/GYW 1430
B	508	548	588	658
Oil load (kg)	32	36		45
Gross weight (kg)	164	195		212

JDX6-33~35 (TA,TH)(W1,W2,W3) Series Voltage Transformer

1 Applicable Standard

- IEC 61869-1-2007 Instrument transformers - Part1: General requirements
- IEC 61869-3-2011 Instrument transformers - Part3: Additional requirements for inductive

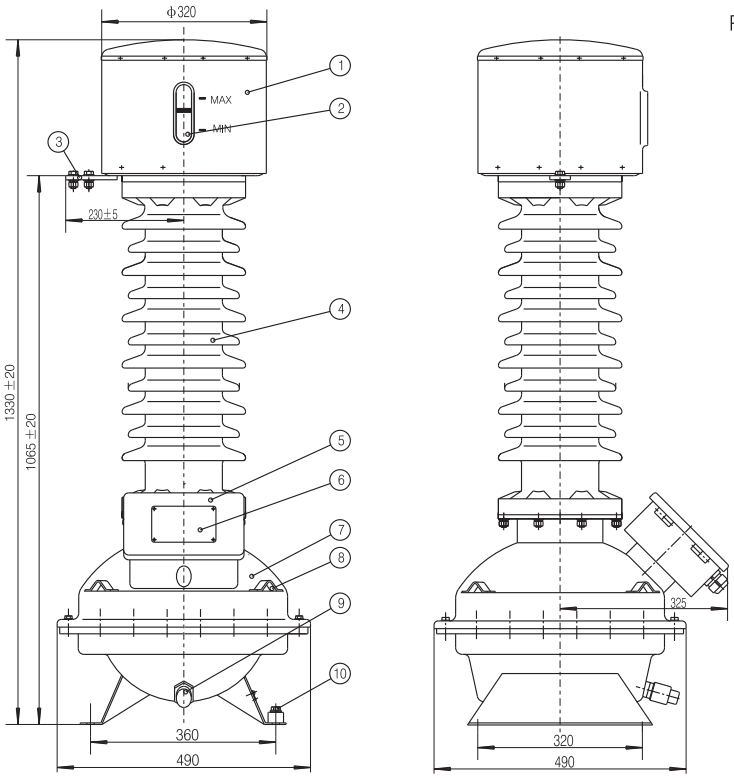
2 Operation Conditions

- Ambient temperature: -40~+40℃;
- Altitude: ≤2500m
- Pollution Level: Ⅱ、Ⅲ、Ⅳ。

3 Technical Parameters

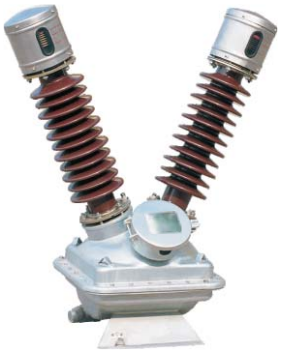
No	Item	Data			
1	Rated primary voltage (kV)	$33/\sqrt{3}$； $35/\sqrt{3}$			
2	Max voltage (kV)	36；40.5			
3	Rated frequent (Hz)	50 or 60			
4	Rated voltage rate (kV)	$\frac{33}{\sqrt{3}}/\frac{0.11}{\sqrt{3}}/\frac{0.11}{\sqrt{3}}/\frac{0.11}{3}$； $\frac{35}{\sqrt{3}}/\frac{0.1}{\sqrt{3}}/\frac{0.1}{\sqrt{3}}/\frac{0.1}{3}$			
5	Accuracy class & Rated output	Secondary terminal	1a-1n	2a-2n	da-dn
		Accuracy class	0.2	3P or 0.5	3P
		Rated output VA	50	50	100
6	Thermal limiting output (VA)	1000			
7	Rated voltage factor	1.2 Time；1.9 Time 8h			
8	Partial discharge level，$1.2Um/\sqrt{3}$kV	≤5pC			
9	Dielectric dissipation factor tg δ，10kV	tg δ ≤0.02			
10	External insulation creepage distance (mm)	W1/875			
		W2/1020			
		W3/1260			
11	Rated power frequency withstand voltage (kV)	70	95		
12	Rated lightening impulse withstand voltage (kV)	170	200		
13	Primary winding and ground power frequency withstand voltage (kV)	5 （Root mean square value）			
14	Secondary winding and ground power frequency withstand voltage (kV)	3 （Root mean square value）			
15	Mechanical strength (N)	1250			

4 Outline and Mounting Dimensions



1. Expander
2. Oil level sight hole
3. Primary terminal
4. Porcelain bushing
5. Outlet box
6. Nameplate
7. Oil tank
8. Lifting piece
9. Oil drain valve
10. M12 Earthing bolt

JD6-33～35(TA,TH)(GY)(W1,W2,W3) Series Voltage Transformer



1 Applicable Standard

- IEC 61869-1-2007 Instrument transformers - Part1：General requirements
- IEC 61869-3-2011 Instrument transformers - Part3：Additional requirements for inductive

2 Operation Conditions

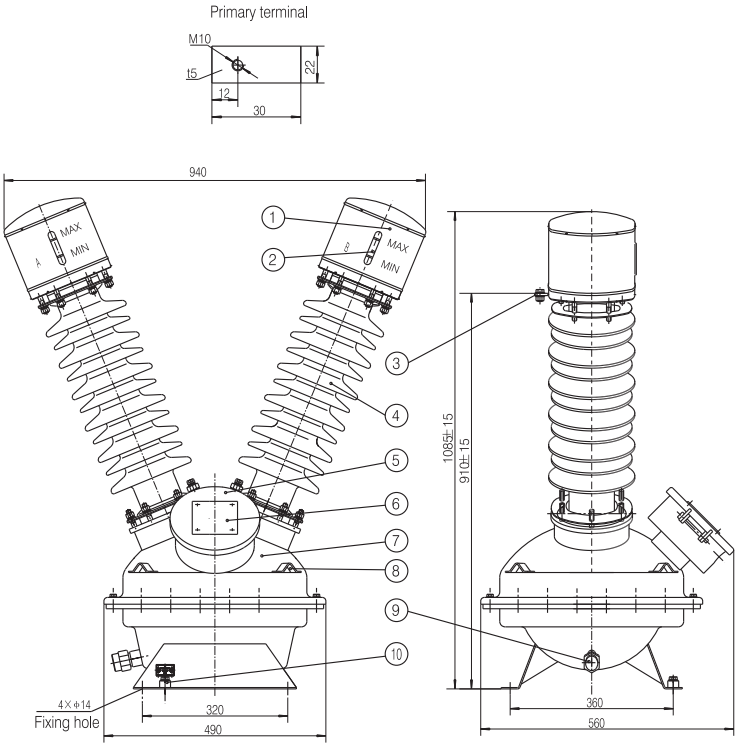
- Ambient temperature: -40～+40℃；
- Altitude: ≤2500m
- Pollution Level：Ⅱ、Ⅲ、Ⅳ。

3 Technical Parameters

No	Item	Data			
1	Rated primary voltage (kV)	33；35			
2	Max voltage (kV)	36；40.5			
3	Rated frequent (Hz)	50 or 60			
4	Rated voltage rate (kV)	33 /0.11/0.11；35/0.1/0.1；33 /0.11；35/0.1			
5	Accuracy class & Rated output (A measurement winding group)	Secondary terminal		a-b	
		Accuracy class	0.2	0.5	1
		Rated output (VA)	80	150	250
6	Accuracy class & Rated output (Two measurement winding groups)	Secondary terminal	1a-1b		2a-2b
		Accuracy class	0.2		0.5
		Rated output (VA)	40		40
7	Thermal limiting output	1000VA			
8	Rated voltage factor	1.2 Time			
9	Partial discharge level 1.2Um/$\sqrt{3}$kV				
10	Dielectric dissipation factor tg δ，10kV	tg δ ≤0.02			
11	External insulation creepage distance (mm)	W1/875			
		W2/1020			
		W3/1260			
12	Rated power frequency withstand voltage (kV)	70	95		
13	Rated lightening impulse withstand voltage (kV)	170	200		
14	Secondary winding and ground power frequency withstand voltage (kV)	3 kV（Root mean square value）			
15	Mechanical strength (N)	1250			

4 Outline and Mounting Dimensions

1. Expander
2. Oil level sight hole
3. Primary terminal
4. Porcelain bushing
5. Outlet box
6. Nameplate
7. Oil tank
8. Lifting piece
9. Oil drain valve
10. M12 Earthing bolt



Note

Note

Available Product Range from CHINT Electric:

≥500kV


500kV Power Transformer


500kV Rod Composite Insulator


468kV Porcelain Metal Oxide Surge Arrester used for Substation


750kV Power Transformer

252kV


GW7-252 HV Switch Disconnector


GW22-252kV Switch Disconnector


GW23-252kV Switch Disconnector


252kV GIS


LW43-252 Circuit Breaker


220kV Power Transformer


220kV SF_6 tank metal oxide surge arrester (without gap)(GIS)


220kV Rod Composite Insulator


220kV Outdoor SF_6 HV Current Transformer


220kV Outdoor Oil-Immersed HV Current Transformer

110kV


LW36-126 Outdoor SF_6 Circuit Breaker


GW4-126 AC HV Switch Disconnector


126kV Mini GIS


126kV Mini GIS


ZF21-126kV GIS


110kV SF_6 tank metal oxide surge arrester (without gap) (GIS)


110kV Power Transformer

40.5kV


KYN61-40.5(Z) Metalclad Enclosed Withdrawable Switchgear


ZN85 Indoor Solid Sealed Polar Pole Vacuum Circuit Breaker


XGN77-40.5(Z) Cubicle Fixed AC Metal-enclosed switchgear


NYBM(P)77-40. 5-0. 69 HV/LV Prefabricated Substation


NFZR77-40. 5D HV AC Vacuum Load Switch-Fuse Combined Equipment Specialised for Wind Power


ZGS11 American Type Transformer Specialised for Wind Power


Outdoor SF_6 Circuit Breaker


ZW7-40.5 Outdoor HV AC Vacuum Circuit Breaker


GW4-40.5 Outdoor AC Switch Disconnector


YB29-40.5/12 Prefabricated Substation


Skid-type Box Transformer


TBBS (6-35kV) Substation Type Auto-switched HV Shunt Capacitor Equipment


MSVC Magnetic Control Reactor Type HV Static Reactive Compensator


35kV Oil-immersed Transformer with OLTC in SZ9 series


27. 5kV Surge Arrester & Insulator Used for Electric Railway 35kV Porcelain Metal Oxide Surge Arrester Used for Substation

12kV


KYN28A-12(Z) Metalclad Enclosed Withdrawable Switchgear


KYN28A-24(Z) Metalclad Enclosed Withdrawable Switchgear


XGN15-12 (SF_6) Fixed Type Metalclad Enclosed Loop Switchgear


HXGN15A-12 Fixed Type Metalclad Enclosed Loop Switchgear


XGN2-12 Box-type Fixed AC Metal-enclosed switchgear


XGN36-12 Box-type Fixed AC Metal-enclosed switchgear


NG7 Cubicle Gas Insulated Switchgear (C-GIS)


TBBF(6-10kV) HV Shunt Capacitor Complete Equipment


12kV Indoor Embedded Pole Vacuum Circuit Breaker


12kV Indoor HV AC Vacuum Circuit Breaker


12kV Indoor HV AC SF_6 Switch-fuse Combined Equipment


12kV Indoor HV AC Vacuum Load Switch-fuse Combined Equipment


12kV Outdoor HV AC Vacuum Circuit Breaker


12kV Outdoor Shunt Type HV AC Vacuum Load Breaker Switch (Electric Dog)


12kV Outdoor Shunt Type HV AC Vacuum Circuit Breaker (Electric Dog)


Outdoor HV Permanent Magnet Vacuum Circuit Breaker


12kV Outdoor HV AC Droping Fuse


HV Shunt Capacitor Compensation Equipment


TBBF(X) HV Shunt Capacitor Complete Equipment


S9-S11 Series Three-phase Oil-immersed Regulating Distribution Transformer without Excitation


S9-S11 Series Three-phase Oil-immersed Full-sealed Distribution Transformer without Excitation


SC(B) series Epoxy Resin Dry-type Transformer


SCBH15 Amorphous Transformer


SBH15 Amorphous Oil-immersed Transformer


YB6 series Prefabricated Substation


YBM(P)29 HV/LV Prefabricated Substation


10kV Indoor Casting Current Transformer 10kV Indoor Casting Voltage Transformer


Outdoor Oil-immersed Energy Metering Box


12kV AC Three-phase Combined Over-voltage Protector With Composite Jacket and Gap

0.38-0.6kV


NGC8 LV Withdrawable Switchgear


NGC1~3 LV Withdrawable Switchgear


NGG1 LV Fixed Switchgear


NGZ2 series Power Supply Switchgear


NGZ3 DC Power Supply Switchgear


PZ series Lighting and Control Box


NTSC(0.4-1kV) Dynamic Filtering Compensator


BAM/BFM Full-film HV Shunt Capacitor


BAMH Assembled HV Shunt Capacitor

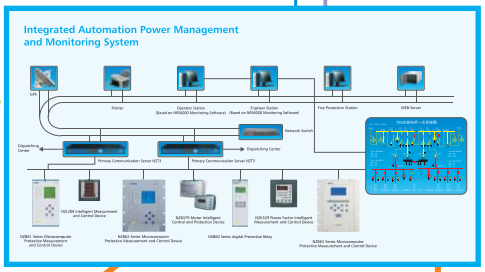

XKGKL Dry Type Air-core Current-limiting Reactor CKGKL Dry Type Air-core Reactor


BKS, BKD HV Oil-immersed Shunt Reactor


NCM1 Coarctation Insulated Control Bus-bar


XQJ series Cable Bracket


Cable



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