



Your Reliable Partner for Safety

GUJU

TECHNOLOGY





Your Reliable
Partner for Safety
GUJU TECHNOLOGY

Our mission is to enhance safety, reliability, and efficiency
for generation and distribution of electricity
by achieving operational excellence, customer satisfaction,
and industry leading product quality.



1992~2009

1992. 07.

GUJU Technology Inc. founded

1998. 04.

Became an exclusive agent for Curtiss-Wright Corp. (Nuclear Industry)

2003. 09.

Built a factory in Chungju, Korea

2003. 10.

ISO 9001:2000 Certificate / BSI

2004. 05.

Established research and development center

2009. 04.

Nation's first KRC Certificate for long rod insulators for railways

2009. 09.

Acquired specialty contractor license (Specialty painting construction)

2010 ~ 2014

2010. 01.

Registered as a subcontractor of Korea Hydro & Nuclear Power (KHNP)

2010. 07.

ISO 14001:2004 Certificate / BSI

2010. 09.

Brand registration (GEOSEAL, GEOGROUT, GEOCOAT-GTI)

2011. 01.

Registered as an opening & penetration seal contractor of KHNP

2013. 01.

Registered as an opening & penetration seal detailed design and inspection service provider of KHNP

2014. 04.

Registered engineering business (Electric, Machinery) / KENCA

2014. 09.

Received the Minister Award (Polymer Insulators for High-speed Railways) / Ministry of Trade, Industry and Energy

2015 ~ 2019

2015. 03.

OHSAS 18001:2007 Certificate / BSI

2015. 04.

Received the Nuclear Technology Award / Ministry of Science, ICT and Future Planning

2015. 06.

Contract for UAE Barakah Nuclear Plant #1, #2 penetration seal (Material and Construction)

2016. 10.

Established PT. Gunabangsa Teknik Industri (Factory near Jakarta, Indonesia)

2016. 12.

Contract for UAE Barakah Nuclear Plant #3, #4 Penetration Seal (Material and Construction)

2018. 07.

Received Best Quality Award (Elbow Connector for Switchgear) from Korea Electric Power Corp. (KEPCO)

2019. 06.

Acquired Jinkwang ENC. (Switchgear)

2020 ~ 2024

2020. 02.

Built a factory in Naju, Korea near KEPCO's HQ

2021. 03.

Contract for Saeul Nuclear Plant #3, #4 Penetration Seal / KHNP (Material and Construction)

2022. 10.

Awarded 'Excellent Subcontractor' / KHNP (two years in a row)

2023. 09.

Developed Poll mounted and Pad mounted Transformers / KEPCO registered

2024. 09.

Expanded the Naju Factory



Nuclear Power Products & Services

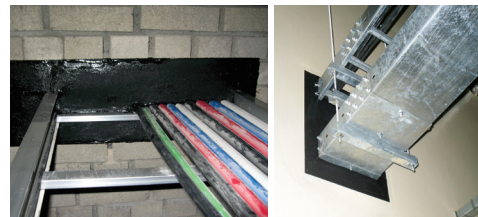
Fire stop Materials

- Silicone based fire protection seal system for opening and penetration
- High density non-shrink grout qualified for fire, ventilation, flood, compartment pressurization, and radiation seals.



Engineering for Nuclear Power Plant

- Engineering and On-Site Evaluation for the Opening & Penetration Seal
- Detailed Design and Inspection of Painting



Agency

Agent for Nuclear Power Products & Services

- Sciencetech
- Target rock
- Enertech
- Rizzo International, Inc

CURTISS-WRIGHT

RIZZO
INTERNATIONAL, INC.

Power Distribution Products

Switch Gears

- Cubicle Type Switchgear
- Load Break Switch
- Recloser / Sectionalizer



Transformer

- High-efficient Pole Transformer
- Pad Mounted Transformer
- Amorphous Transformer
- Distribution Transformer



Power Distribution Products

- Insulators for Distribution
- Insulators for Railways & High-speed train
- Lightning arresters & Cut out switches
- Cable connectors
- Metal accessories





Power Distribution Products

Bringing over thirty years of experience and expertise, Guju Technology Inc. is an industry leading company in designing and manufacturing transformers, switchgears, polymer insulators, and other various power distribution products.

Guju Technology has provided the products and solutions to domestic customers, including KEPCO and KORAIL, as well as international customers in more than 40 countries.

With vast experience of different standards and applications around the world, Guju Technology offers full capabilities in custom designing, testing and manufacturing under rigorous Quality Assurance Program.

Our team of qualified and experienced engineers and technicians stand ready to fully support our industry’s complex and evolving requirements.



SWITCHGEAR	10
- Cubicle Type Switchgear (Dry-air & SF6 Gas insulated)	
- Load Break Switch (Pad Mounted, Pole Mounted, ECO LBS)	
- Recloser (SF6 Gas type, Epoxy Molded) / Sectionalizer	



TRANSFORMER	17
- High-efficient Pole Transformer (Salinity Tolerant)	
- Amorphous Transformer	
- Pad Mounted Transformer	
- Distribution Transformer	
- Molded Transformer / Power Transformer	



POLYMER INSULATOR	24
- Suspension Insulator (Dead-end)	
- Line Post Insulator	
- Coupling Insulator	
- Insulators for Railway	



BUSHING & CONNECT PRODUCT	31
- Bushing for Pole Mounted Transformer (Polymer, Hybrid)	
- Bushing and Bushing Well for Pad Mounted Transformer	
- Polymer Bushing for Switchgear	
- Elbow Connectors (Deadbreak, Loadbreak)	
- Cable Termination Kit / Cable Joint Kit	



POWER DISTRIBUTION PRODUCT	35
- Polymer Cut out Switch (125BIL, 150BIL)	
- Polymer Surge Arrester (with/without Lead wire)	
- Polymer Arrester (Gap Type)	
- Cross-Arm	

SWITCHGEAR

I Cubicle Type Switchgear (Dry-Air & SF6 Gas insulated)



APPLICATION

Cubicle type switchgear is designed for stable power distribution in substations. With its cubicle structure and highly reliable control system, it provides best solution for service in private utility network such as substation in industrial and public buildings.

CHARACTERISTIC

- Easy maintenance and reliable operation
- Digitally controlled and protected
- Ensured safety to operating person
- Requires minimum installation space
- Expandable modular system
- Three-phase enclosure of functional compartments

SPECIFICATION

Specification	Unit	SF6 Gas Type		Dry-Air Type	
Rated voltage	kV	25.8		25.8	
Rated short time withstand current	[kA /1sec, RMS]	25		25	
Rated current	A	Busbar	2,000	Busbar	2,000
		Feeder	630	Feeder	630
Power frequency withstand voltage	kV	70		60	
Impulse withstand voltage	kV	150		150	
Rated interrupting current	kA	25		25	
Standard operation obligation		0-0.3sec-CO-15sec-CO		0-0.3sec-CO-15sec-CO	
Protection degree		IP65 / IP4X		IP65 / IP4X	
Mechanical endurance	times	10,000		10,000	
Applied Standard		IEC 62271-100, KEPCO std.		IEC 62271-100, KEPCO std.	

- Specifications shown above can be adjusted, without notice, to improve its performance.
- The product can be customized to fit customer’s requirements.

I SF6 Gas insulated Pad mounted Load Break Switch



APPLICATION

SF6 gas insulated pad mounted load break switch is designed to achieve optimum performance and reliability with low maintenance cost and long lifespan. It can be installed for underground distribution lines to perform current breaking and data gathering.

CHARACTERISTIC

- Easy maintenance and reliable operation
- Light weight and easy installation
- Safety mechanism (low pressure interlocking, pressure relief, safety locks)
- Automation applied (Remote controllable with RTU and modem)
- Voltage measuring, status monitoring

SPECIFICATION

Rated voltage	kV	15 / 24(25.8) / 35(40.5)
Rated current	A	600
Rated short time withstand current	kA, RMS	12.5
Rated short circuit making current	kA, peak	32.5
Power frequency withstand voltage	kV	50 / 60 / 95
Impulse withstand voltage	kV	125 / 125 / 195
Rated load switching performance	times	200
Mechanical endurance	times	5,000
Weight (Automatic / Manual)	kg	450 / 320
Applied Standard		IEC 62271-103, KEPCO std.

- Specifications shown above can be adjusted, without notice, to improve its performance.
- The product can be customized to fit customer’s requirements.

SF6 Gas insulated Pole mounted Load Break Switch



APPLICATION

Pole mounted SF6-Gas insulated load break switch is designed to achieve optimum performance and reliability with low maintenance cost and long lifespan.

The integrated type controller includes RTU (remote control, status monitoring), metering (current, voltage, power factor, frequency, counter) & recording (events, fault current waveforms, data logging).

CHARACTERISTIC

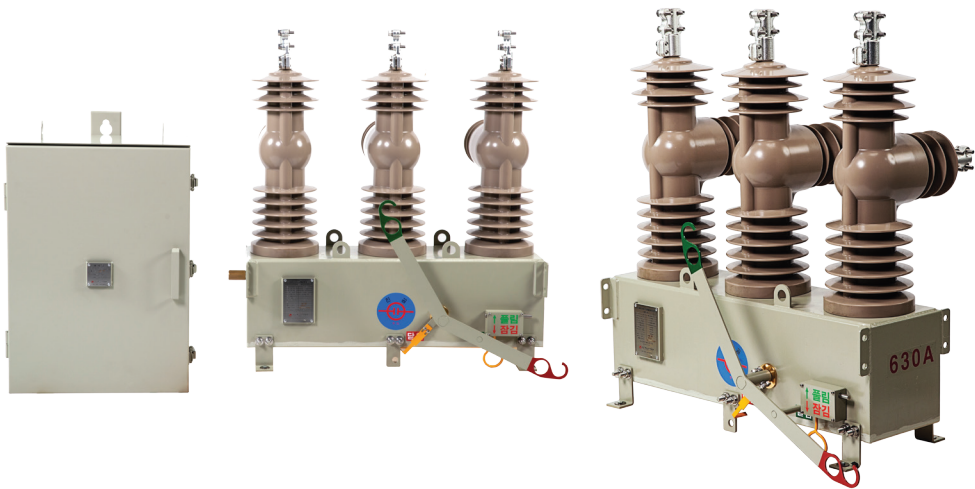
- Easy maintenance and reliable operation
- Compact design and easy installation
- Safety mechanism (low pressure interlocking, pressure relief, safety locks)
- Automation applied (Remote controllable with RTU and modem)
- Voltage measuring, status monitoring

SPECIFICATION

Rated voltage	kV	12(max.15) / 24(max.27) / 36(max. 38)
Rated current	A	400 / 630 / 800
Rated short time withstand current	kA, RMS	12.5 / 16 / 20
Rated short circuit making current	kA, peak	32.5 / 40, 5
Power frequency withstand voltage	kV	50 / 60 / 70
Impulse withstand voltage	kV	125 / 150 / 170
Manual / Automatic		Manual / Automatic
Mechanical endurance	times	5,000
Weight	kg	130, 145
Applied Standard		IEC 60265-1, IEC 62271-103, KEPCO std.

- Specifications shown above can be adjusted, without notice, to improve its performance.
- The product can be customized to fit customer’s requirements.

Eco Load Break Switch



APPLICATION

ECO Load Break Switch is a eco-friendly product which is designed to use epoxy molded bushings.

The integrated type controller includes RTU (remote control, status monitoring), metering (current, voltage, power factor, frequency, counter) & recording (events, fault current waveforms, data logging).

CHARACTERISTIC

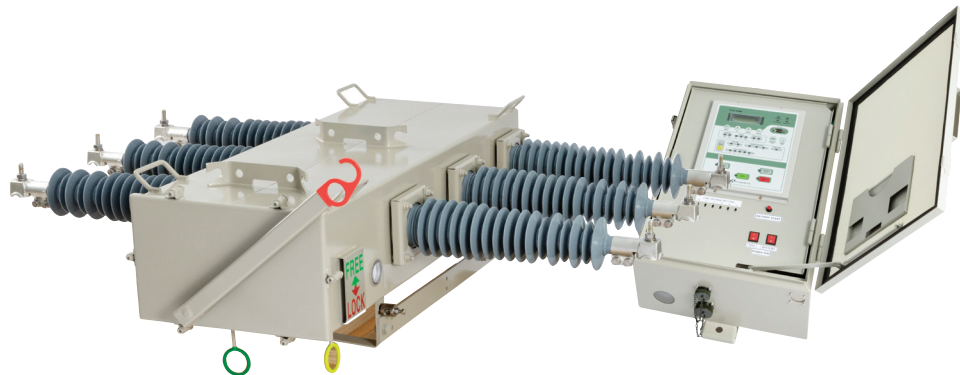
- Easy maintenance and reliable operation
- Compact design and easy installation
- Automation applied (Remote controllable with RTU and modem)
- Voltage measuring, status monitoring

SPECIFICATION

Rated voltage	kV	12(max. 15)/24(max. 27)
Rated active load interrupting current	A	400 / 630
Rated short-time current	kA, RMS	12.5
Rated short circuit making current	kA, peak	32.5
Rated power frequency withstand voltage	kV	50 / 60
Impulse withstand voltage	kV	125 / 150
Manual / Automatic		Manual / Automatic
Mechanical endurance	times	5,000
Weight	kg	110
Applied Standard		IEC 62271-103, KEPCO std.

- Specifications shown above can be adjusted, without notice, to improve its performance.
- The product can be customized to fit customer’s requirements.

SF6 Gas Insulated Sectionalizer



APPLICATION

SF6 gas insulated sectionalizer is designed for a self-contained circuit-opening device used in junction with source-side protective devices such as reclosers and circuit breakers.

It automatically isolate faulted sections of electrical distribution systems.

The sectionalizer has distinct application advantages

- It can be applied between two protective devices having operating curves, which are close together. This is a vital feature in a location where an additional step in coordination is not practical or possible.
- It can be used on close-in taps where fault current is highly frequent, coordinating with fuses.
- It has fault close and latch capability for any fault-closing operations.

CHARACTERISTIC

- Easy maintenance and reliable operation
- Compact design and easy installation
- Safety devices (low pressure interlocking, pressure relief, safety locks)

SPECIFICATION

Rated voltage	kV	12(max.15) / 24(max. 27) / 36(max.38)	
Rated current	A	400 / 630	
Power frequency withstand voltage	kV	50 / 60 / 70	
Impulse withstand voltage	kV	125 / 150 / 170	
Rated short time withstand current	kA, RMS	10 / 12.5 / 16	
Rated short circuit making current	kA, peak	26 / 32.5 / 40	
Minimum running current	A	Phase	50, 70, 100, 140, 200, 300, 400A (Block)
		Ground	25, 35, 50, 70, 100, 150, 200A (By Pass)
Rated short circuit breaking current	A	900	
Applied Standard		IEEE Std 37.63 / IEC60265-1, KEPCO std.	

- Specifications shown above can be adjusted, without notice, to improve its performance.
- The product can be customized to fit customer’s requirements.

SF6 Gas Insulated Vacuum Recloser



APPLICATION

SF6 gas insulated vacuum recloser is designed to use on overhead distribution lines as well as distribution substation applications.

The magnetic actuator provides highly efficient and reliable performance while consuming very little energy.

It has a microprocessor based controller that provides the protection, data logging and communication functions.

CHARACTERISTIC

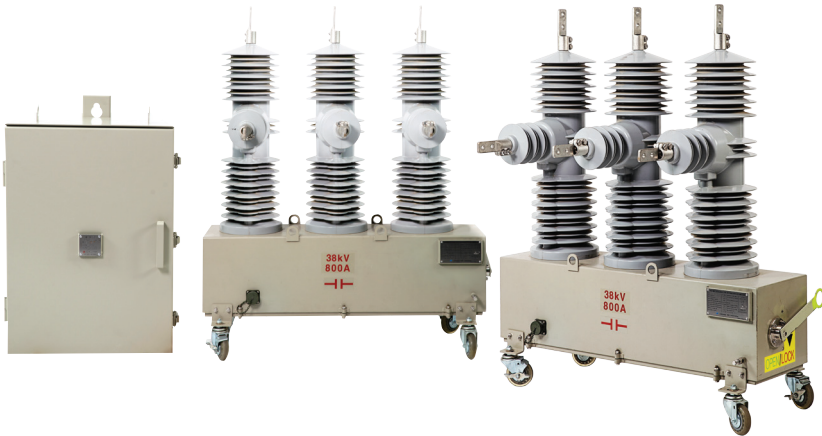
- Fault detection & protection.
- Self-diagnosis control & status monitoring
- Adjusting T-C curve
- Sequence operational test (trip, reclosing, resetting)
- Recording (events, fault current waveforms, data logging)

SPECIFICATION

Rated voltage	kV	12(max.15) / 24(max.27) / 36(max.38)	
Rated current	A	400 / 630 / 800	
Rated short circuit making current	kA, peak	32.5 / 40	
Minimum running current	A	Phase	10~1600A (step : 1A)
		Ground	2~1600A (step : 1A)
Rated short circuit breaking current	kA	12.5 / 16	
Power frequency withstand voltage	kV	50 / 60 / 70	
Impulse withstand voltage	kV	125 / 150 / 170 (200)	
Manual / Automatic		Magnetic Actuator	
Mechanical endurance	times	5,000 / 10,000	
Weight	kg	160 / 160 / 300	
Applied Standard		ANSI C37.60, IEC62271-111, KEPCOstd.	

- Specifications shown above can be adjusted, without notice, to improve its performance.
- The product can be customized to fit customer’s requirements.

I Pole Mounted Epoxy-Molded Vacuum Recloser



APPLICATION

Mold recloser combines the high reliability of vacuum interruption and high dielectric strength of encapsulated with cycloaliphatic epoxy resin.

The magnetic actuator provides consistent performance for automated distribution applications.

It has a microprocessor based controller that provides the protection, data gathering and communication function.

CHARACTERISTIC

- Solid insulation (eco-friendly)
- Self-diagnosis control & status monitoring
- Permanently sealed enclosure with stainless steel
- Built-in integrated sensors
- Fast auto-reclosing capability
- Recording (events, fault current waveforms, data logging)

SPECIFICATION

Rated voltage	kV	12(max. 15) / 24(max. 27) / 36(max. 38)
Rated current	A	400 / 630 / 800
Power frequency withstand voltage	kV	50 / 60 / 70
Impulse withstand voltage	kV	125 / 150 / 70
Rated short circuit breaking current	kA	12.5 / 16
Rated short circuit making current	kA, peak	32.5 / 40
Minimum running current	A	Phase 10~1600A (step : 1A) Ground 2~1600A (step : 1A)
Manual / Automatic		Magnetic Actuator
Mechanical endurance	time	5,000 / 10,000
Weight	kg	190 / 190 / 280
Applied Standard		ANSI C37.60, IEC 62271-111

- Specifications shown above can be adjusted, without notice, to improve its performance.
- The product can be customized to fit customer’s requirements.

TRANSFORMER

I High Efficiency Pole Transformer (Normal & Salinity-Tolerant)



APPLICATION

High efficiency pole transformer is applied on 22.9kV 3-phase 4 wires multi-point grounding system with single-phase silicone steel plate metal pin.

CHARACTERISTIC

- Minimized power loss
- High temperature rise limitation (radiator not required)
- Eco-friendly material (plant oil, fire retardant)

RATING

Type	Enclosing Box	Capacity (kVA)	Efficiency (100%)	Voltage regulation (%)	No-load current (%)	No-load loss (W)	Load loss (W-100% load)	Dimension W / D / H (mm)	Weight
Normal	Steel	30	Min 98.71	Max 1.5	Max 1.0	Max 62	Max 327	480(W)/610(D)/1,160(H)	235
		50	Min 98.83	Max 1.4	Max 0.8	Max 89	Max 501	595(W)/660(D)/1,210(H)	310
		75	Min 98.92	Max 1.4	Max 0.8	Max 132	Max 681	635(W)/720(D)/1,240(H)	380
		100	Min 98.99	Max 1.3	Max 0.7	Max 165	Max 851	645(W)/730(D)/1,260(H)	450
Salinity-tolerant	Stainless	30	Min 98.71	Max 1.5	Max 1.0	Max 62	Max 327	480(W)/610(D)/1,170(H)	230
		50	Min 98.83	Max 1.4	Max 0.8	Max 89	Max 501	595(W)/660(D)/1,220(H)	305
		75	Min 98.92	Max 1.4	Max 0.8	Max 132	Max 681	635(W)/720(D)/1,250(H)	370
		100	Min 98.99	Max 1.3	Max 0.7	Max 165	Max 851	645(W)/730(D)/1,270(H)	435

- Specifications shown above can be adjusted, without notice, to improve its performance.
- The product can be customized to fit customer’s requirements.

I High Efficiency Amorphous Transformer (Normal & Salinity-Tolerant)



APPLICATION

High efficiency amorphous transformer is applied on 22.9kV 3-phase 4 wires multi-point grounding system with amorphous metal pin. (Less no-load loss)

CHARACTERISTIC

- Minimized power loss
- High temperature rise limitation (radiator not required)
- Eco-friendly material (plant oil, fire retardant)

SPECIFICATION

Type	Enclosing Box	Capacity (kvA)	Efficiency (100%)	Voltage regulation (%)	No-load current (%)	No-load loss (W)	Load loss (W-100% load)	Dimension W / D / H (mm)	Weight
Normal	Steel	10	Min 98.51	Max 2.0	Max 1.2	10	141	420(W)/550(D)/1,050(H)	142
		20	Min 98.78	Max 1.7	Max 1.2	15	230	470(W)/600(D)/1,120(H)	204
		33	Min 98.88	Max 1.5	Max 1.0	23	350	490(W)/620(D)/1,200(H)	265
		50	Min 98.96	Max 1.4	Max 0.8	27	498	595(W)/660(D)/1,220(H)	330
		75	Min 99.05	Max 1.4	Max 0.8	38	678	635(W)/720(D)/1,250(H)	430
		100	Min 99.20	Max 1.3	Max 0.7	52	754	645(W)/730(D)/1,360(H)	505
		167	Min 98.70	Max 1.3	Max 0.7	59	2,140	820(W)/760(D)/1,280(H)	520
		10	Min 98.51	Max 2.0	Max 1.2	10	141	420(W)/550(D)/1,050(H)	138
Salinity-tolerant	Stainless	20	Min 98.78	Max 1.7	Max 1.2	15	230	470(W)/600(D)/1,120(H)	198
		33	Min 98.88	Max 1.5	Max 1.0	23	350	490(W)/620(D)/1,200(H)	258
		50	Min 98.96	Max 1.4	Max 0.8	27	498	595(W)/660(D)/1,220(H)	325
		75	Min 99.05	Max 1.4	Max 0.8	38	678	635(W)/720(D)/1,250(H)	424
		100	Min 99.20	Max 1.3	Max 0.7	52	754	645(W)/730(D)/1,360(H)	500
		167	Min 98.70	Max 1.3	Max 0.7	59	2,140	820(W)/760(D)/1,280(H)	515

- Specifications shown above can be adjusted, without notice, to improve its performance.
- The product can be customized to fit customer’s requirements.

I Pad Mounted Transformer (Compact type)



APPLICATION

Pad mounted transformer is applied on underground distribution line. (Urban, industrial area)

CHARACTERISTIC

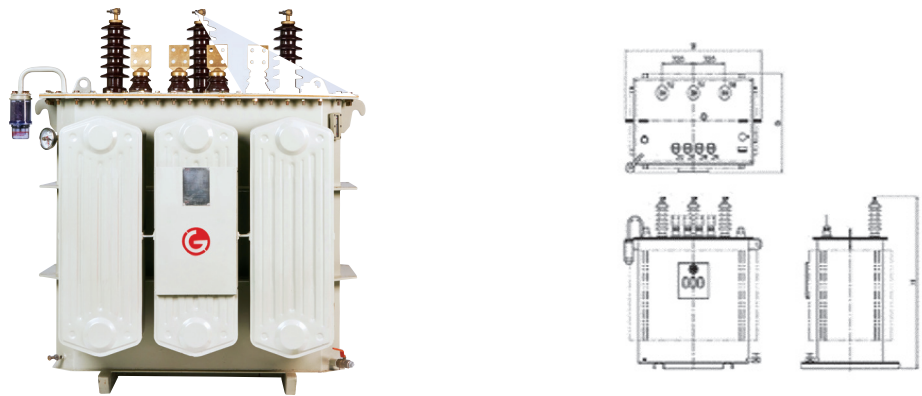
- Protected power source side
- Electrical safety device applied (protection fuse)
- Compact size and easy installation

SPECIFICATION

Phase (Φ)	Capacity (kvA)	Efficiency (100%)	Voltage regulation (%)	No-load current (%)	No-load loss (W)	Load loss (W-100% load)	Dimension W / D / H (mm)	Weight
Single 1Φ	50	Min 98.60	Max 1.4	Max 0.8	Max 105	Max 590	1,000(W)/1,000(D)/950(H)	620
	100	Min 98.90	Max 1.4	Max 0.7	Max175	Max 920	1,000(W)/1,000(D)/950(H)	800
	200	Min 98.90	Max 1.3	Max 0.6	Max300	Max 1920	1,000(W)/1,400(D)/1,050(H)	1300
Triple 3Φ	75	Min 98.50	Max 1.8	Max 1.7	Max210	Max 930	1,500(W)/1,000(D)/1,150(H)	1310
	150	Min 98.60	Max 1.5	Max 1.6	Max300	Max 1820	1,500(W)/1,000(D)/1,150(H)	1480
	300	Min 98.70	Max 1.4	Max 1.0	Max510	Max 3400	1,500(W)/1,100(D)/1,150(H)	1780
	500	Min 98.80	Max 1.3	Max 0.8	Max750	Max 5320	1,500(W)/1,250(D)/1,150(H)	2300

- Specifications shown above can be adjusted, without notice, to improve its performance.
- The product can be customized to fit customer’s requirements.

I Distribution Transformer



APPLICATION

Distribution transformer is insulating oil cooling type and able to be installed both indoor and outdoor.

CHARACTERISTIC

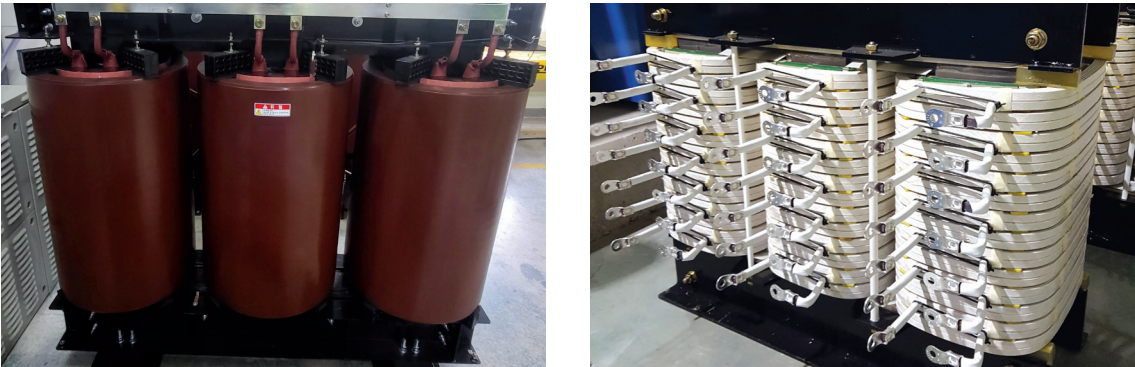
- Phase : 3Ø
- Frequency : 60Hz,50Hz
- Primary voltage : 22.9Kv
- Secondary voltage : 220, 380, 440, 208y/127, 380y/220, 400y/230, 440y/254
- TAP voltage : 23.9 – R22.9 – 21.9 – 20.9 – 19.9Kv
- Vector : Ddo, Dyn11. etc.

SPECIFICATION

CAPACITY (kvA)	Exciting Current I ₀ (%)	Voltage Regulation	Efficiency		Dimension(mm)		
			100%	50%	W	D	H
200	2.0	1.5	98.80	99.10	1270	820	1390
300	2.0	1.5	98.90	99.20	1320	870	1500
500	1.8	1.4	98.90	99.25	1370	950	1500
750	1.7	1.3	99.05	99.30	1420	1120	1550
1000	1.7	1.3	99.10	99.35	1570	1150	1730
2000	1.5	1.1	99.20	99.45	2030	1450	2200
2500	1.4	1.0	99.30	99.50	2520	1500	2460
3000	1.3	1.0	99.30	99.50	2550	1500	2500

- Specifications shown above can be adjusted, without notice, to improve its performance.
- The product can be customized to fit customer’s requirements.

I Molded Transformer / Dry Type Transformer



APPLICATION

Molded transformer is high-efficient and low noise design product.
It used steel plate metal pin which applied grain refining treatment so that improve the energy loss.

CHARACTERISTIC

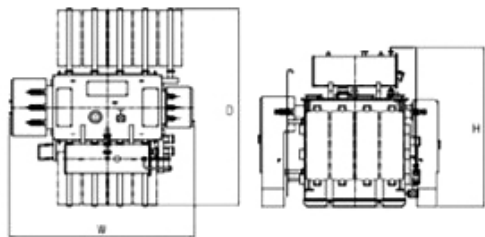
- Phase : 3Ø
- Frequency : 60Hz,50Hz
- Primary voltage : 22.9Kv
- Secondary voltage : 220, 380, 440, 208y/127, 380y/220, 400y/230, 440y/254
- TAP voltage : 23.9 – R22.9 – 21.9 – 20.9 – 19.9Kv
- Vector : Ddo, Dyn11. etc.

SPECIFICATION

CAPACITY (kvA)	Exciting Current I ₀ (%)	Voltage Regulation	Efficiency		Dimension(mm)		
			100%		W	D	H
200	5.5	2.0	99.0		1235	790	1440
300	4.5	1.7	99.10		1330	795	1435
500	3.0	1.5	99.30		1375	840	1500
750	2.5	1.4	99.30		1445	840	1640
1000	2.5	1.3	99.40		1660	1020	1800
2000	2.0	1.1	99.50		2070	1150	2250
2500	2.0	1.1	99.50		2200	1250	2250
3000	2.0	1.0	99.50		2370	1250	2325

- Specifications shown above can be adjusted, without notice, to improve its performance.
- The product can be customized to fit customer’s requirements.

| Power Transformer



APPLICATION

Power transformer adjusts high voltage from power plant to distribution line. It is widely applied to high-power accepting system.

CHARACTERISTIC

- Phase : 3Ø
- Frequency : 60Hz,50Hz
- Primary voltage : 22.9Kv
- Secondary voltage : 6.6/3.3kV
- TAP voltage : 23.9 – R22.9 – 21.9 – 20.9 – 19.9Kv
- Vector : Ddo, Dyn11. etc.

SPECIFICATION

CAPACITY (kVA)	Exciting Current I ₀ (%)	Voltage Regulation	Efficiency	Dimension(mm)		
			100%	W	D	H
1000	4.5	1.3	98.4	2200	1950	1700
1500	4.5	1.25	98.5	2600	2100	2600
2000	4.5	1.2	98.5	2900	2200	2800
2500	4.0	1.2	98.7	3100	2500	2900
3000	4.0	1.2	98.7	3100	2600	3050
5000	4.0	1.21	98.9	3200	3000	3100
7500	3.5	1.0	99.1	3400	3400	3300
10000	3.5	1.0	99.2	3600	3800	4000

- Specifications shown above can be adjusted, without notice, to improve its performance.
- The product can be customized to fit customer’s requirements.

| HOW WE BUILD YOUR TRANSFORMERS



POLYMER INSULATOR

I Composite Dead-end/Suspension Insulators



APPLICATION

- Used in distribution lines and supports insulation of wires, having good electrical properties and high reliability compared to porcelain insulator.

CHARACTERISTIC

- Easy installation by light weight
- Excellent mechanical strength
- Excellent insulation in pollution environment
- High water repellency by using silicone
- Registered on KEPCO qualified supplier list

RATING

Specification		Unit	Characteristics		
			36kV(A)	25kV(B)	15kV(C)
Power frequency flashover voltage	Dry	kV	145	130	95
	Wet	kV	130	110	70
Lightning impulse flashover voltage (1.2×50μs)	Positive	kV	230	175	155
	Negative	kV	253	212	175
Specified mechanical load (SML)		kN	70	70	70
Section length		mm	525±25	430±20	330±15
Leakage distance		mm	760	580	425
Dry arcing distance		mm	320	280	210

I Composite Line post Insulators



APPLICATION

- The wire Insulator supporting by installing it in the straight section of the distribution line.

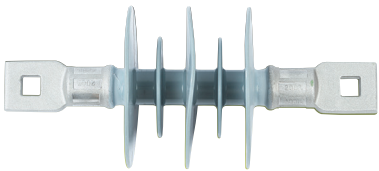
CHARACTERISTIC

- Excellent water repellency and ozone-proof
- Safety by excellent mechanical strength
- Easy to install by light weight

RATING

Specification	Units		Characteristics
Power frequency withstand voltage	Dry	kV	110
	Wet	kV	85
Lightning impulse flashover voltage (1.2×50μs)	Positive	kV	166
	Negative	kV	189
Specified cantilever load (SCL)		kN	12
Specified mechanical load (SML)		kN	12
Leakage distance		mm	712
Dry arcing distance		mm	264

Composite Coupling Insulator



APPLICATION

- Coupling insulator is used to reinforce the insulation performance of COS or lightning arrester.

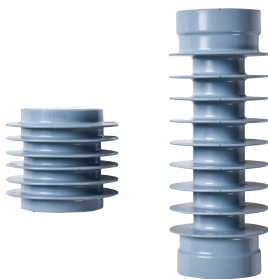
CHARACTERISTIC

- Light weight
- Excellent mechanical strength
- High water repellency

SPECIFICATION

Specification	Units	Characteristics
Pollution-withstand voltage (ESDD 3.5 g / m²)	kV	min 7
Power frequency withstand voltage (dry 1min)	kV	42
Lightning impulse withstand voltage (1.2×50μs)	kV	125
Specified mechanical load (for Bending)	kN	9.8
Specified mechanical load (SML)	kN	9.8
Leakage distance	mm	min 420

Composite Bus Support Insulator



APPLICATION

- This insulator is mainly used for low voltage power distribution cabinets, frequency converters, and other products.

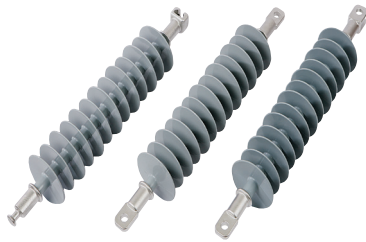
CHARACTERISTIC

- Light weight
- High water repellency

SPECIFICATION

Specification		Units	Characteristics	
Item			PIH6A4	PIG20B4
Nominal voltage / Rated voltage		kV	6.6 / 7.2	22 / 24
Power frequency flashover voltage	Wet	kV	22	50
Lightning impulse flashover voltage		kN	70	150
Leakage distance		mm	770	1320

Composite Suspension Insulator for Railways (T-s)



APPLICATION

- It is used for classifying 69kV transmission line and railway line, suspension feed line, and has excellent insulation and mechanical properties.

CHARACTERISTIC

- Excellent mechanical characteristics and insulation
- High water repellency by using silicon
- Easy installation by light weight
- Excellent insulation in contaminated environment

SPECIFICATION

Specification	Unit	Characteristics	
		No.1	No. 2 & 3
Section length	mm	750 ±5	760 ±5
Leakage distance	mm	min 1,725	
Dry arcing distance	mm	min 570	
Specified mechanical load (SML)	kN	137.2	
Rated tensile load (RTL)	kN	68.6	
Torsion load (1min)	N·m	50	
Power frequency withstand voltage (dry)	kV	230	
Power frequency withstand voltage (wet)	kV	185	
Lightning impulse flashover voltage (1.2×50μs)	Positive	380	
	Negative	380	

Composite Suspension Insulator for High-speed Railways (T-sx)



APPLICATION

- It is used to distinguish 25kV high-speed railway tram lines and to suspend feeder lines, and has excellent insulation and mechanical properties.

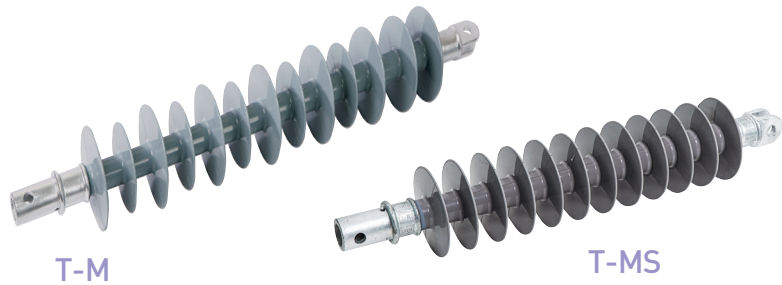
CHARACTERISTIC

- Excellent insulation and mechanical properties
- High water repellency of polymer material
- Convenient construction with light weight
- Excellent insulation performance in damaged enviroment

SPECIFICATION

Specifications	Units	Characteristics
Leakage distance	mm	min 1,300
Specified mechanical load (SML)	kN	110
Rated tensile load (RTL)	kN	55(10 second)
Power-frequency withstand voltage (wet)	kV	95
Lightning impulse withstand voltage (1.2×50μs)	kV	250
Radio interference voltage	kV	27.5
	μV at 1000kHz	10

Insulators for Railway / T-m / T-ms



APPLICATION

- Used for operating bracket of 25kV high-speed rail tracks and has excellent insulation and mechanical features.

CHARACTERISTIC

- Composite insulator using for 25kV railway tensioning position
- Excellent insulation and mechanical properties
- High water repellency
- Light weight & easy installation
- Excellent insulation performance in contaminated environment

RATING / T-M

Specifications	Unit	Characteristics
Leakage distance	mm	A-B : min 1,250 / C-D : min 230
Specified cantilever load (SCL)	N·m	min 3,430
Rated tensile load(RTL, 1min)	N	58,800
Power frequency flashover voltage (dry)	kV	A-B : min 230 / C-D : min 70
Power frequency flashover voltage (wet)	kV	A-B : min 180 / C-D : min 50
Lightning impulse flashover voltage (1.2×50μs)	kV	A-B : min 380 / C-D : min 100
Radio Interference Voltage	r.m.s kV	25
	μV at 1000kHz	10

RATING / T-MS

Specifications	Unit	Characteristics
Leakage distance	mm	min 1,250
Specified cantilever load (SCL)	N·m	min 3,430
Rated tensile load (RTL, 1min)	N	58,800
Power frequency flashover voltage (dry)	kV	min 230
Power frequency flashover voltage (wet)	kV	min 180
Lightning impulse flashover voltage (1.2×50μs)	kV	min 380
Radio interference voltage	r.m.s kV	25
	μV at 1000kHz	10

Composite Long Rod Insulator for High-speed Railways (T-mx)



APPLICATION

- Composite insulator applied to 25kV High-speed railway (T-mx).

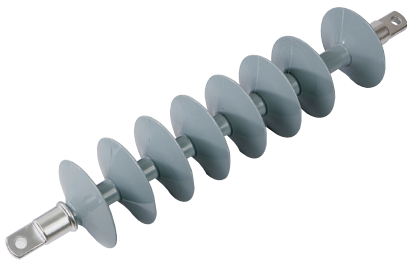
CHARACTERISTIC

- Excellent insulating and mechanical properties
- High water repellency
- Light weight and easy installation
- Excellent insulation performance in contaminated environment

SPECIFICATION

Specification	Units	Characteristics
Leakage distance	mm	min1,300
Specified cantilever load (SCL)	N·m	min4,000
Specified mechanical load (SML)	kN	90
Rated tensile load(RTL)	kN	45 (for ten seconds)
Power-frequency withstand voltage (wet)	kV	95
Lightning impulse withstand voltage (1.2×50μs)	kV	250
Radio Interference Voltage	kV	27.5
	μV at 1000kHz	10

Composite Tension Insulator for Railways (N-a)



APPLICATION

- It is used for Dead-and line and division point of 25kV tram lines, and has excellent insulation and mechanical properties.

CHARACTERISTIC

- Composite insulator using for 25kV railway tensioning position
- Excellent insulation and mechanical properties
- High water repellency
- Excellent insulation performance in contaminated environment

SPECIFICATION

Specifications	Unit	Rating
Leakage distance	mm	A-B : min 1,400 / C-D : min 240
Specified cantilever load (SCL)	N	min 1,863
Rated tensile load (RTL, 1 min)	N	54,917
Power frequency flashover voltage (dry)	kV	A-B : min 250 / C-D : min 80
Power frequency flashover voltage (wet)	kV	A-B : min 200 / C-D : min 55
Lightning impulse withstand voltage (1.2×50μs)	kV	A-B : min 400 / C-D : min 110

I Insulators for Railway / NSP-40



APPLICATION

- Insulators used to support AT feeders and conductors in underground sections, tunnels, and bridges of railroad tracks (general and high-speed railways).

CHARACTERISTIC

- High water repellency
- Excellentinsulatingandmechanicalproperties
- Light weight and convenient construction by applying aluminum fitting
- Excellent insulation performance in contaminated environment

RATING

Specifications	Units	Characteristics
Leakage distance	mm	min 1,100
Specified cantilever load (SCL)	N	min 6,963
Rated tensile load (RTL)	N	39,227
Power-frequency flashover voltage (dry)	kV	200
Power-frequency flashover voltage (wet)	kV	150
Lightning impulse withstand voltage (1.2×50μs)	kV	min 320
Radio interference voltage	r.m.s kV	25
	μV at 1000kHz	10

I Insulators for Railway / NSP-50



APPLICATION

- Insulators used to support AT feeders and conductors in underground sections, tunnels, and bridges of railroad tracks (general and high-speed railways).

CHARACTERISTIC

- High water repellency
- Excellent insulating and mechanical properties
- Light weight and convenient construction by applying aluminum fitting
- Excellent insulation performance in contaminated environment

RATING

Specifications	Units	Characteristics
Leakage distance	mm	min 1,100
Specified cantilever load (SCL)	N	min 6,963
Rated tensile load (RTL)	N	39,227
Power-frequency flashover voltage (dry)	kV	200
Power-frequency flashover voltage (wet)	kV	150
Lightning impulse flashover voltage (1.2×50μs)	kV	min 320
Radio interference voltage	r.m.s kV	25
	μV at 1000kHz	10

POWER DISTRIBUTION PRODUCT
I Hybrid / Polymer Bushing for Pole Transformer



APPLICATION

- Protects high voltage and low voltage side terminal of pole transformer.

CHARACTERISTIC

- Excellent impact resistance
- Prevent oil leakage
- High water repellency
- Light weight & Easy installation

SPECIFICATION

Specifications	Units	Characteristics	
		High	Low
Rated current	A	40	500
Material	-	Porcelain /silicone	Porcelain-FRP/silicone
Power frequency withstand voltage	dry kV	42	15
	wet kV	36	15
Lightning impulse withstand voltage (1.2 x 50μs)	kV	125	-
Leakage distance	mm	770 ±40	-

I Bushing, Bushingwell for PAD Transformers



APPLICATION

- Connects underground power cables and transformers.

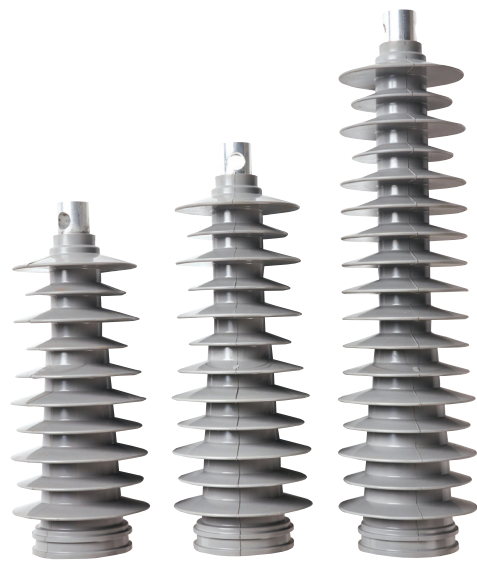
CHARACTERISTIC

- Excellent tightening
- Excellent endurance and insulation

SPECIFICATION

Specifications	Units	Characteristics	
		Bushing	Bushing well
Rated voltage	V	400	25,800
Voltage(Max)	Phase-ground kV	-	15.2
	Phase-phase kV	-	26
Lightning impulse withstand voltage	kV	30	125
Power frequency withstand volt (1 min)	kV	10	40
Direct current withstand voltage (15 min)	kV	-	78
Partial Discharge	pC	-	3

I Polymer Bushing for Switchgear



APPLICATION

- Bushings are used to provide the essential insulation when a high voltage line passes through a metal sheet or frame that is at ground potential.
- Primary Disconnect Bushings are the key components of the switchgear that serve as the connection points to energize the network downstream of the switchgear.

CHARACTERISTIC

- Switchgear and power apparatus installations
- Designed for extreme environmental conditions
- Cast in high dielectric strength grey silicone

SPECIFICATION

Specifications		Units	Characteristic Value		
Rated voltage		kV	17.5	27	36
Rated normal current		A	≤630		
Power frequency withstand voltage	Dry	kV	50	60	80
	Wet	kV	38	50	70
Lightning impulse flashover voltage		kV	125	150	180
Leackage distance		mm	770	910	1320
Arcing distance		mm	310	360	490
PD (1.5 Um /V3)		pC	≤10	≤10	≤10
Flammability grade (UL 94)			V-0		

I Elbow Connector (25kV, 600A Deadbreak)



APPLICATION

- Connects 25kV underground distribution line cables and switches

CHARACTERISTIC

- Applicable to both cable types (Cu / Al)
- Designed for electric field distribution
- Excellent shielding function

SPECIFICATION

Specifications		Units	Characteristics
Rated voltage		kV	25.8
Maximum voltage	Phase-ground	kV	15.2
	Phase-phase	kV	26.3
Lightning impulse withstand voltage (1.2 x 50μs)		kV	125
Power frequency withstand voltage (1min)		kV	40
Direct current withstand voltage (15 min)		kV	78
Short time withstand current	0.17 seconds	A	25,000
	3 seconds		10,000
Partial discharge		pC	Max . 3

I Elbow Connector (25kV, 200A Loadbreak)



APPLICATION

- Connects 25kV underground distribution line cables and transformers

CHARACTERISTIC

- Applicable to both cable types (Cu / Al)
- Designed for electric field distribution
- Excellent shielding function

SPECIFICATION

Specifications		Units	Characteristics
Rated voltage		kV	25.8
Maximum voltage	Phase-Ground	kV	15.2
	Phase-Phase	kV	26
Lightning impulse withstand voltage (1.2 x 50μs)		kV	125
Power frequency withstand voltage (1min)		kV	40
Direct current withstand voltage (15 min)		kV	78
Short time withstand current	0.17 seconds	A	10,000
	3 seconds		3,500
Partial discharge		pC	Max. 3

I 23kV Class Cable Termination



APPLICATION

- Used for terminal connection processing of power cable end of 23kV underground distribution line

CHARACTERISTIC

- Designed for electric field distribution
- Excellent shielding function
- Cast in high dielectric strength grey silicone

SPECIFICATION

Specification	Units	Characteristics
Rated voltage	kV	23
Lightning impulse withstand voltage (1.2x50μs)	kV	150
Power frequency withstand voltage (1min)	kV	65
Direct current withstand voltage(15min)	kV	100
Partial discharge	pC	Max. 3

I 23kV Class Cable Joint



APPLICATION

- Used for terminal connection processing of power cable end of 23kV underground distribution line.

CHARACTERISTIC

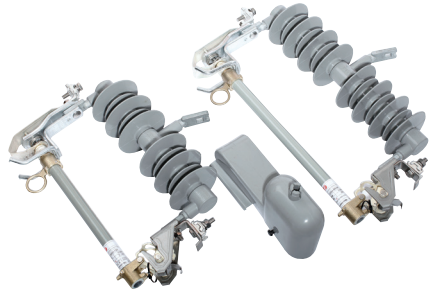
- Designed for electric field distribution
- Excellent shielding function
- Cast in high dielectric strength grey silicone

SPECIFICATION

Specification	Units	Characteristics
Rated voltage	kV	23
Lightning impulse withstand voltage (1.2x50μs)	kV	150
Power frequency withstand voltage (1min)	kV	52
Direct current withstand voltage (15min)	kV	100
Partial discharge	pC	Max. 3

PROTECTION PRODUCT

I Polymer Cut out Switch (125BIL, 150BIL)



APPLICATION

- Protects equipment from overcurrent due to short circuit or ground accidents or overload.

CHARACTERISTIC

- Excellent insulation and mechanical properties
- Excellent water repellency
- Light weight and easy installation
- 125BIL, 150 BIL 2-Types

SPECIFICATION

Specifications	Units	Characteristic Value	
Rated voltage	kV	25.8	25.8
Maximum design voltage	kV	27	27
Rated current	A	100	100
Rated breaking current	kA	Sym 7.1 Asym 10	Sym 8 Asym 12
Power frequency withstand voltage	Dry kV	42	70
	Wet kV	36	60
Lightning impulse withstand voltage (1.2x50μs)	kV	125	150
Leackage distance	mm	400	645

I Polymer Surge Arrester



APPLICATION

- Protects the rear end facilities in case of lightning and abnormal voltage intrusion into the processing power line. It also limits overvoltage by switching circuits and is used to block the flow.

CHARACTERISTIC

- Moisture-proof by direct molded unit
- Optimal structure and high durability
- Applied zinc oxide block to ensure safety

SPECIFICATION

Specification	Unit	Characteristics
Rated voltage	kV	18
Max. continuous operating voltage (MCOV)	kV	15.3
Nominal discharge current	A	2,500 / 5,000
Reference voltage	kV	min 22.9
Residual voltage	kV	Steep voltage 66
		Lightning impulse voltage 60
Partial discharge	pC	Max. 10
Leakage distance	mm	min 645

I Polymer Surge Arrester with Lead wire



APPLICATION

- Protects the rear end facilities in case of lightning and abnormal voltage intrusion into the processing power line. Also limits overvoltage by switching circuits and is used to block the flow. This product has a lead wire connected to a polymer lightning arrester.

CHARACTERISTIC

- Moisture-proof by direct molded unit
- Optimal structure and high durability
- Applicated zinc oxide block to ensure safety

SPECIFICATION

Specification	Unit	Characteristics
Rated voltage	kV	18
Max. continuous operating voltage MCOV	kV	15.3
Nominal discharge current	A	2,500 / 5,000
Reference voltage	kV	min 22.9
Residual voltage	kV	66
Steep voltage		60
Lightning impulse voltage		
Partial discharge	pC	Max. 10
Leakage distance	mm	min 645

I Polymer Arrester (Gap Type)



APPLICATION

- Gap type arrester protects LP insulators and other applications from lightning and surge.

CHARACTERISTIC

- Moisture-proof by direct molded unit
- Optimal structure and high durability
- Light weight and miniaturized design

SPECIFICATION

Specifications		Units	Characteristics
Rated voltage		kV	18
Nominal discharge current		kA	2.5
Residual voltage		kV	max.55
Power frequency withstand voltage	Dry	kV	42 (1 min)
	Wet	kV	36 (10 seconds)
Lightning impulse flashover voltage	Pos	kV	95-150
	Neg		105-160
Partial discharge		pC	Max. 10

PRODUCTS FOR CROSS-ARM

Roduct	Type	Characteristics
Bands for crossarm	One Side 2 types / Two Side 2 types	Used to install a cross arm in electric pole
U-bolts	Crossarm 2 types / Anchor block 4 types	Used to install a cross arm in electric pole
Racks for low voltage distribution	One Line / Two LinesThree Lines / Four Lines	A product for supporting electric wires used in vertical wiring in low pressure machined electric power lines.
Hanger band	small size S1 / S2 / S3	Used to install and fix transformers on poles in processing power line
Rod for guy-wire	-	Used to connect the ground line of pole with the branch line that is installed underground.
Grip for ground wire	12 / 22 / 30 / 38 / 45 / 55 / 70 / 90	Used for connection of the ground wire to a processing power line, it effectively secures the ground wire..
Eye shackles	-	Attach to the pole and connect with the suspension
Hexagon head bolts and nuts	130 / 400 / 460 / 490 (mm)	Used for each type of pole fittings in a processing power line
Line post insulator pin	No.3	Used to combine linepost insulator in finished iron that used in processing power lines
D-type racks	Straight Pole / Strain Pole	Compatible with linear and internal applications
Step bolts	M16 x 160	It is installed on a pole and used for footrest support so that workers can safely move on and off during work
Wedge type dead-end clamp	WDC 2 types / WDA 3 types	Used to hold wires in combination with a suspension insulator on a special high pressure wiring track
COS Braket	-	Product for fixing a special high pressure of COS on the pole
Low voltage shackle type linsulator	-	Used as a low-pressure processing power line or in an service wire
Ground clamp for crossarms	-	Used to secure the ground wire by installing it in the finished iron of the distribution pole.
Indicator for underground wire location	UM-1 / UM-2 / UM-3 / UM-4 / UM-5	Install the pavement of asphalt, concrete, and sidewalk blocks on the surface to determine the connection points of the underground distribution line or cable.
Cable connecting strap	t2 x 30 x 240	When using AL wire as special high pressure neutral in machined wiring furnace, it is applied to insulator of low pressure

CERTIFICATION



ISO 9001



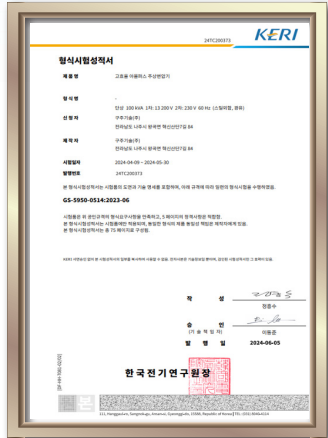
ISO 14001



ISO 45001



Pole Transformer



Amorphous Transformer



Pad Transformer



Distribution Transformer



Brand Registration



Brand Registration

OFFICES & FACTORY



NAJU FACTORY

HEAD OFFICE
29, Baekhyeon-ro 101beon-gil,
Bundang-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea
Tel. 031 704 0091
Fax. 031 704 0095

NAJU FACTORY
84, Hyeoksinsandan 7-gil,
Wanggok-myeon, Naju-si,
Jeollanam-do, Republic of Korea
Tel. 061 331 0730
Fax. 061 333 1095

CHUNGJU FACTORY
147, Chungjusandan 2-ro,
Chungju-si,
Chungcheongbuk-do,
Republic of Korea
Tel. 043 852 8500
Fax. 043 856 0095



CHUNGJU FACTORY

ULSAN BRANCH
7, Bukbusunhwan-doro,
Nam-gu, Ulsan,
Republic of Korea
Tel. 052 224 0511



PT. GTI FACTORY

INDONESIA FACTORY
Jl Akasia 2 A7 No. 3A Delta Silicon 1 Industrial Park
Lippo Cikarang, Bekasi 17530 Jawa Barat,
Indonesia
Tel. +62 21 897 3550



HEADQUARTER

📍 Fifth floor, 29, Baekhyeon-ro 101 beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea

☎ **Tel** +82 31 704 0091 **Fax** +82 31 704 0095 🌐 **www.gujutec.co.kr** ✉ **ee@gujutec.co.kr**