

GLOBAL LEADING INNOVATOR

Cheryong Electric Power Products



CHERYONG ELECTRIC CO.,LTD.

We would like to express our sincere gratitude to all of our customers for continuous interest and support on our company



Since its foundation in 1986, Cheryong has built a strong reputation as a reliable supplier in electrical power industry by achieving high quality standard. Throughout the years, leading new trend of technology for customer satisfaction has always been a keynote and worked as an essential motivation for our employees.

Cheryong promises to develop sustainable growth. We will concentrate with sincere effort to remain as a trusted quality supplier by focusing on value creation in rapidly changing market.

Business ethics is an essential principle in our management. Cheryong has devoted itself to ethical management and will preserve transparent business practices to maintain our corporate reputation as a trustworthy enterprise.

With our commitment to excellence, we will keep our path on developing new products with advanced technology and delivering best quality products that will exceed customers’ expectations.

Thank you.

President and CEO **Jong Tae, Park**

VISION

Value Creating Quality Supplier
Leads the market by building customer loyalty as a trusted enterprise



Transformer

Leading Technology
Innovation



Gas Insulated Switchgear

Creating Values

Core Value



High Quality

Since our products are strongly related to everyday lifestyle, we put extra effort to eliminate defects or malfunctions. We strictly follow safety and quality related procedures to provide high quality products.



Business Ethics

The way we operate our organization has tremendous effect onto our customers and employees. Cheryong's management enforces transparent operation and maintains excellent financial credit rating.



Customer Satisfaction

Customers always come first; and their needs and requirements are of great priority and importance to us. We strive to create strong and transparent business relationship and constantly work to retain their customer loyalty.



Advanced Technology

We are focused on delivering cutting-edge technology to our customers. Over the years, there have been gradual increase in investment towards research & development as well as on-site facilities.



Respect for People

Cheryong's employees are of utmost importance. In order to serve them right and provide great confidence in using our products, we consistently tried to build positive corporate culture. We have open-door policies, pursue equal opportunities and also enforce anti-discrimination policies in place for our employees.

History of Cheryong

- 1986.12**
Established
- 1992.02**
Constitution of Research and Development Centre
- 1995.08**
Designated as Advanced Technology Company
- 1997.08**
Listed on Korea Stock Market (KOSDAQ)
- 1998.11**
Acquisition of ISO 9001 Certificate
- 2002.11**
Awarded Presidential Commendation
- 2004.02**
Acquisition of ISO 14001 Certificate
- 2005.06**
Daejeon Factory Expansion
- 2007.05**
Delivered the World's Largest Amorphous Oil-immersed Transformer (15MVA)
- 2008.05**
Developed Solid Insulation Distribution Transformer (SIDT)

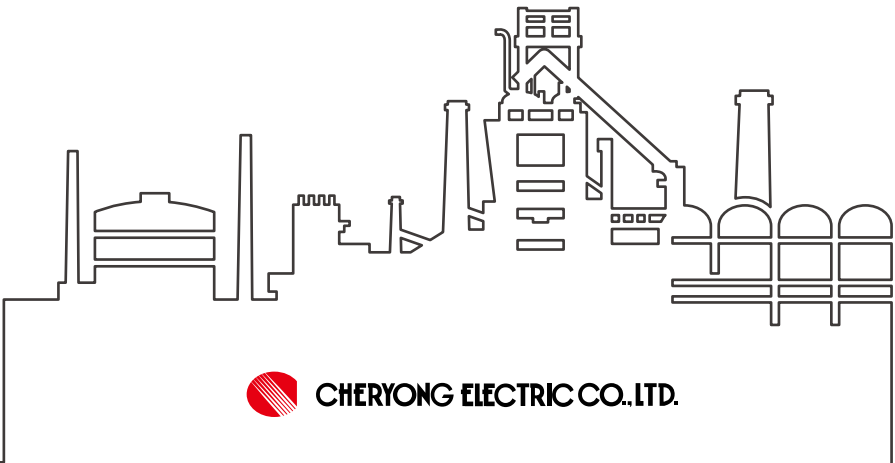
- 2010.12**
Appointed as World-Class Korean Product for SIDT
- 2011.11**
Reorganized and renamed as ‘Cheryong Electric Co., Ltd.’
- 2013.12**
Achieved export record of US \$3Million
- 2015.12**
Achieved export record of US\$ 10Million
- 2016.10**
Developed seismic withstanding GIS (170kV)
- 2017.11**
Developed Seismic Withstand Cast Resin Transformer
- 2018.08**
Developed Mold Type Shunt Reactor
- 2019.06**
Appointed as KEPCO Trusted Partner



Certificates



ISO 9001 ISO 14001 Korea Stock Market (KOSDAQ) KEPCO Trusted Partner



Business Area

Transformers

Oil-immersed Distribution Transformer

- Power Transformer
- Amorphous Transformer
- Conventional(CRGO) Transformer
- PAD Mounted Transformer
- Pole Mounted Transformer
- Autotransformer

Cast Resin Transformer

- Amorphous Transformer
- Seismic Withstand Cast Resin Transformer
- Conventional(CRGO) Transformer
- Autotransformer

Submersible Transformer

- Solid Insulation Distribution Transformer (SIDT)
- Submersible Transformer (Round & Rectangular type)

Product Information

Transformers

Amorphous Cast Resin Transformers
Amorphous Oil-immersed Transformers
Solid Insulation Distribution Transformers(SIDT)
Submersible Transformers
Seismic Withstand Cast Resin Transformer
Autotransformers
Cast Resin Transformers
Oil-immersed Transformers
PAD Mounted Transformers
Pole Mounted Transformers

Other Products

Amorphous Metal Core



Proven Quality and Technology

Together with professional and positive attitude towards new technology we continuously seek to provide better solution for our customers

What is Amorphous?

Cheryong’s Amorphous Transformers represent super low losses, highly efficient and cost effective solution for the electric network system. It enables a significant reduction in no-load losses by up to 75% when compared to conventional transformers. We provide guaranteed and easily quantifiable energy savings for you.

Key Features and Benefits

- Reduce no-load losses by up to 75%
- Environmentally friendly
 - Reduced core losses have impact on environment by reducing Carbon dioxide emission
- Extended operation life
 - Saves operation & maintenance cost
- Excellent magnetic performance in high frequency and harmonics

Loss Reduction

Cast Resin Transformer(3P 22.9kV/LV)

Ratings (kVA)	No-load loss (W)		Reduction Rate (%)
	CRGO	Amorphous	
100	670	120	82.1
300	1,080	250	76.9
500	1,370	345	74.8
1,000	1,980	585	70.5
1,500	3,150	900	71.4
2,000	4,110	1,200	70.8
2,500	5,050	1,600	68.3
3,000	6,740	2,300	65.9

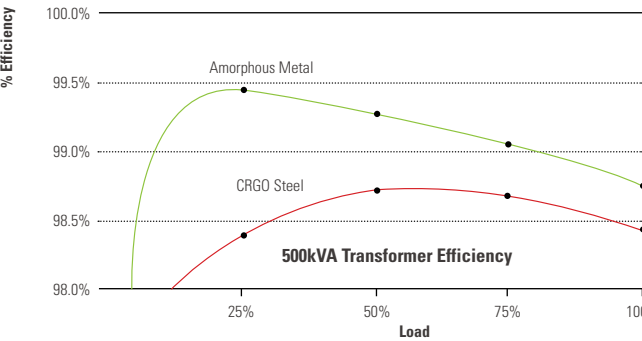
Total Owning Cost

Many utilities and users consider total owning cost (TOC) when purchasing transformers. TOC comprises both the initial cost of the transformer, the future cost of energy losses and operating over the lifetime which is as much important as its initial price.

TOC = Ct + (A x Po) + (B x Pk)

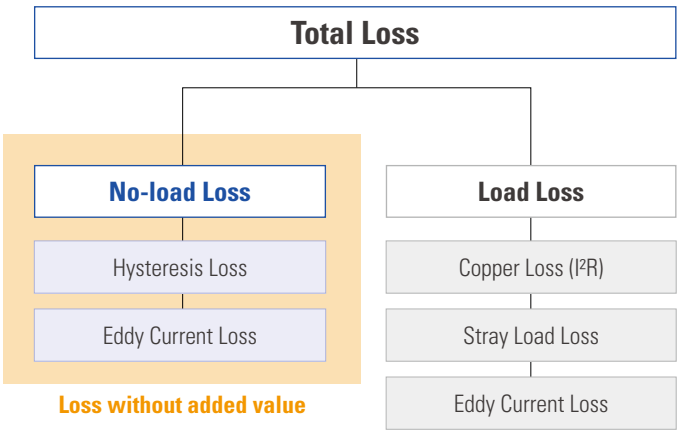
Ct = Purchase Price
A = Capitalization factor for no-load loss
B = Capitalization factor for load loss
Po = No-load loss
Pk = Load loss

Transformer Efficiency Curve



Type	Load			
	25%	50%	75%	100%
Amorphous	99.43	99.27	99.02	98.75
CRGO	98.42	98.73	98.62	98.41

Amorphous Metal



Amorphous Metal is an amorphous magnetic material created from molten metal which is mixed with Fe, B, Si and others through a rapid cooling process(10⁶ °C/sec).

- The array of atom is irregularly arranged into Amorphous state like liquid
- Amorphous metal reduces hysteresis loss more for the rotation of atoms is easier to cope with the variation of magnetic field when compared to CRGO
- Amorphous metal has high natural resistance (4 times higher than CRGO) and the thin thickness of material (about one tenth of CRGO) enables Amorphous metal to reduce eddy loss
- **Hysteresis loss** : Friction loss occurred between magnetic particles when a magnetic flux passes through steel core
- **Eddy current loss** : Resistance loss occurred from eddy current when a magnetic flux passes through steel core
- **No-load loss** : Energy loss resulting from HV side of transformer, when powered, regardless of load existence

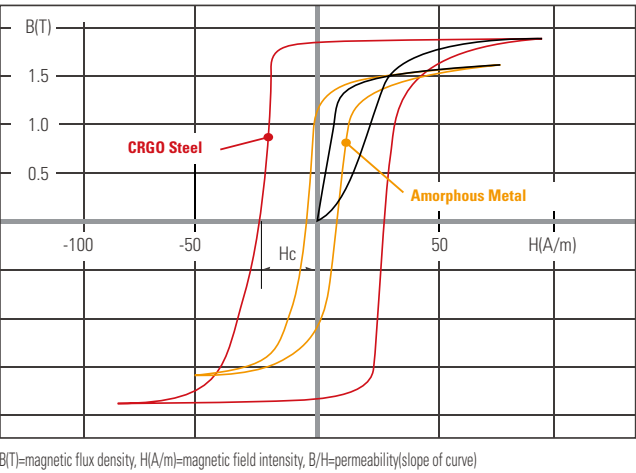
Comparison of Core

Properties	Amorphous	CRGO
Density	7.15g/cm³	7.65g/cm³
Specific Resistance	130	45
Saturation Flux Density	1.59 Tesla	2.03 Tesla
Thickness	0.025mm	0.27mm
Annealing Temp.	360 °C	810 °C
Annealing Atmosphere	Inert gas	Inert gas
Annealing Requirement	Magnetic Field Annealing	-

Hysteresis Curve

The hysteresis curve determines key characteristics of magnetic material and cross section of looped curve indicates the hysteresis loss.

As the Amorphous metal has less coercive force and more magnetic permeability than CRGO, the hysteresis loss becomes smaller.



Amorphous Metal Core

Noncrystalline Amorphous Metal

CRGO Steel Core

Crystalline Silicon Steel

Transformers

Amorphous Cast Resin Transformers



Key Features

- Highly Efficient
- Low No-load Loss
- Low noise
- Low temperature time constant of winding
- Completed C2, E2, F1 tests

Applications

- Applicable for places where there are rapid changes in load
- Indoor installation
- Public works and utilities
- Railways and buildings
- Special industries where safety is required
- Power generation

Reduction Effect of Power Loss

Ratings (kVA)	No-load loss (W)		Loss Reduction (W)	Annual Loss Reduction (kWh)	Annual Savings (US\$)
	CRGO	Amorphous			
100	670	120	550	4,818	675
300	1,080	250	830	7,271	1,018
500	1,370	345	1,025	8,979	1,257
750	1,650	450	1,200	10,512	1,472
1,000	1,980	585	1,395	12,220	1,711
1,500	3,150	900	2,250	19,710	2,759
2,000	4,110	1,200	2,910	25,492	3,569
2,500	5,050	1,600	3,450	30,222	4,231
3,000	6,740	2,300	4,440	38,894	5,445

*Remarks 1. Annual loss reduction = Loss reduction (watt) x 365 (days) x 24 (hours)
2. Annual savings = Annual reduction (kWh) x Electricity rate (US\$/kWh)
3. Electricity rate (KEPCO) = US\$0.14/kWh

Technical Specification

Description	Single Phase	Three Phase
Ratings	Up to 500kVA	Up to 5MVA
Cooling	AN(AA) or AF(FA)	
Frequency	50Hz or 60Hz	
Primary Voltage	Up to 34.5kV	
Secondary Voltage	Up to 25kV	
Winding Material	Copper or Aluminum	
Tapping Range	Rated ± 5.0% (5 taps)	
Applicable Standards	IEC, IEEE, CSA and JIS	

*Customized products are available according to customers' specification and requirements.

Amorphous Oil-immersed Transformers



Key Features

- Highly Efficient
- Low No-load Loss
- Manufactured world's largest rating (12/15MVA)
- Various selection for optional accessories

Applications

- Applicable for both indoor and outdoor
- Power generation
- Wind Farms
- Photovoltaic plants
- Public works and utilities
- Railways and buildings
- Special industries

Reduction Effect of Power Loss

Ratings (kVA)	No-load loss (W)		Loss Reduction (W)	Annual Loss Reduction (kWh)	Annual Savings (US\$)
	CRGO	Amorphous			
100	665	80	585	5,125	718
300	1,400	160	1,240	10,862	1,521
500	2,040	230	1,810	15,856	2,220
750	2,400	300	2,100	18,396	2,575
1,000	3,000	400	2,600	22,776	3,189
1,500	4,500	450	4,050	35,478	4,967
2,000	6,000	650	5,350	46,866	6,561

*Remarks 1. Annual loss reduction = Loss reduction (watt) x 365 (days) x 24 (hours)
2. Annual savings = Annual reduction (kWh) x Electricity rate (US\$/kWh)
3. Electricity rate (KEPCO) = US\$0.14/kWh

Technical Specification

Description	Single Phase	Three Phase
Ratings	Up to 167kVA	Up to 15MVA
Cooling	ONAN or ONAF	
Frequency	50Hz or 60Hz	
Primary Voltage	Up to 38kV	
Secondary Voltage	Up to 38kV	
Winding Material	Copper or Aluminum	
Tapping Range	OCTC Type: Rated ± 5.0% (5 taps) OLTC Type: Rated ± 10% (17 taps)	
Applicable Standards	IEC, IEEE, CSA and JIS	

*Customized products are available according to customers' specification and requirements.

Transformers

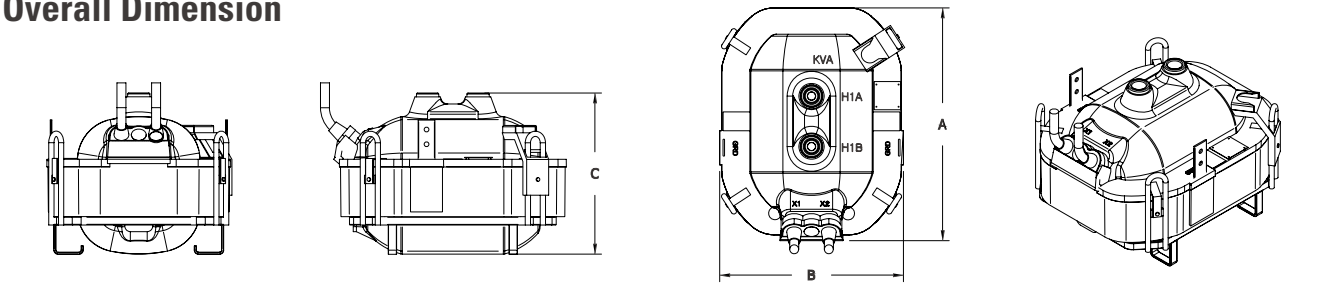
Solid Insulation Distribution Transformers(SIDT)

- **Submersible**
- **Oil-free Solid Insulation**
- **Corrosion-free, Explosion-free**
- **Compact & Efficient**
- **Maintenance-free**

Solid Insulation Distribution Transformer (SIDT), represents itself as a major advancement in submersible transformer technology. It is hermetically sealed in a polymer shell with an oil free solid insulation and is completely waterproof. With its unique features, variety of applications are available; from direct burial, mini vault installation to above-ground installations.

There is no threat of an oil leak or explosion which has been verified by renowned testing facilities world-wide. SIDT's compact size minimizes excavation work and enables easy installation in any contained areas. It is an excellent alternative for PAD mounted transformers to reduce inconvenience to pedestrians and also to increase the value and beauty of properties.

Overall Dimension



Rating	Weight		Dimensions					
			A		B		C	
kVA	kg	lbs	mm	inch	mm	inch	mm	inch
25	400	882	600	24	580	23	490	20
50	400	882	600	24	580	23	490	20
75	450	992	650	26	580	23	490	20
100	700	1,544	750	30	625	25	560	22
167	1,125	2,481	975	39	715	29	610	24

*Add 6" for LV Cable lead protection for 25-50 kVA and 8" for 75-167 kVA to the dimension "A"



Rating

- **kVA** : 25, 50, 75, 100, 167
- **Low Voltages** : 240/120, 120/240, 480/240, 277, 347, 480, 575V
- **High Voltages** : Up to 27,700GrdY or 5,000V(Delta)
- **BIL** : High Voltage 60 to 125kV, Low Voltage 30kV
- **Impedance range** : 1.0% ~ 3.5%

Safe

- Oil free : Non-flammable and non-explosive
- Fire resistant and self-extinguishing
- No damage to near-by equipment and cables in the event of failure

Reliable



Thermal Shock Test
C2 Class according to IEC 60076-11 with more severe condition (at -40°C)

Submersible and Chemical Resistance Test

Fire Behavior Test
F1 Class by "CESI" in Italy according to IEC 60076-11

Destructive Short Circuit Test
By "Powertech" in Canada

Eco-friendly

- Zero-risk of soil or groundwater contamination
- Problems regarding hazardous waste containment and clean-up are eliminated
- Easy end of life disposal
- Improve aesthetics and space utilization by eliminating obstacles on the pavement

Special Tests

Verification by KERI

- Routine and Type Test
- Thermal shock test : tested at 2 pu @ -40°C
- Immersion test : tested under polluted water

Verification by CESI and Powertech

- Fire behavior F1 class test : Non-hazardous gas emission / CESI-Italy
- Destructive short-circuit test : No flying parts / Powertech-Canada



Transformers

Key Features

- Oil free solid insulation construction with APG casting technology
- Submersible (Waterproof-IP68)
- Integrally molded HV bushings and LV cable leads
- Non-corrosive, non-explosive
- High short circuit withstand strength
- Low noise level
- Compact (50% smaller compared to conventional oil-filled transformers)

Accessories

- Bushing insert
- Insulating cap
- Elbow
- Parking bushing
- Junctions
- Vault (mini vault)
- Protection options (fused elbow, molded vacuum interrupter, etc)

Applications

- Excellent substitution for PAD mounted transformer
- Where installation space and work conditions are limited
- Where safety and contamination are of concern
- Areas prone to storm and flood such as coastal area
- Inside building, underground mine, unmanned facility
- Customers who require highly reliable services

Submersible Transformers

Our Submersible Transformer features round vertical tank for single phase and rectangular design for three phase. The coating system is in compliance with IEEE C57.12.32-2002 Submersible Equipment Enclosure Integrity Standard to prevent corrosion. Our submersible transformers are also available in Amorphous metal core.



Key Features

- Minimized overall size
- Manufactured with mineral or natural ester fluid
- Withstands high pressure
- High quality and standard

Applications

- Underground distribution lines
- Suitable for frequent or continuous submerged operation

Standard Features

Description	Single Phase	Three Phase
Ratings	Up to 333kVA	Up to 1,000kVA
Frequency	50Hz or 60Hz	
Primary Voltage	25kV or 34.5GrdY/20kV and below	
Secondary Voltage	440V and below	
HV Bushing	Radial feed or loop feed	
LV Bushing	Stud, cable or spade	
Winding Material	Copper or Aluminum	
Salt spray test	1,500hrs (max 3,000hrs)	
Tapping Range	Rated ± 5.0% (5 taps)	
Applicable Standards	IEEE and CSA	

*Customized products are available according to customers' specification and requirements.

Optional Accessories

- Load break switch
- Load break switch with interlock
- Pressure relief valve (STS 304, silicon bronze or equivalent)
- Off circuit tap voltage change
- Dual voltage switch
- Bay-O-Net fuse
- Current limiting fuse
- Bushing insert
- Drain plug

Installation Sites



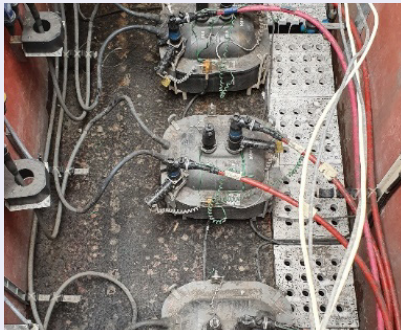
LADWP(CA) / USA Vertically lowered SIDT



NES (TN) / USA Installed in a minvault



Toronto Hydro / Canada Installed in a manhole



CFE / MEXICO 3PH installation in an underground structure



KEPCO / Korea 3PH installation in a manhole



KEPCO / Korea Installation in a manhole

Transformers

Seismic Withstand Cast Resin Transformer

Cheryong’s Seismic Withstand Cast Resin Transformer is highly efficient and has low noise. It is optimally designed to withstand earthquake magnitude of Richter scale 7.3 by adapting advanced technology with integral spacer and energy dissipation type damper.



Key Features

- Safe**
 - With the addition of energy dissipation damper, the transformer is more stable and safe to operate
 - Able to withstand the most severe rolling and vibrating conditions
- Reliable**
 - Meets the highest design response spectrum, IEEE Std 693 High (0.5g)
- Low noise**
 - Enhanced performance and lowered noise by integrally connecting frame, winding and spacer
- Compact and economical**
 - With energy dissipation structure, transformer size and cost are considerably reduced
 - Reduced environmental contamination

Applications

- Industries requiring no blackout and no calamity**
 - Power plants, transmission and distribution, railway, airport and roads (tunnels)
- Telecommunication facilities, requiring stable and reliable power**
 - Petrochemical, semiconductors, automobile factory, hospitals and army
- Public places which have restrictions to installations**
 - High-rise apartments, school and filled up lands
- Facilities requiring environmentally friendly, low noise and vibration resistant functions**
 - Wind Farms, vessels, waste water disposal and sewage

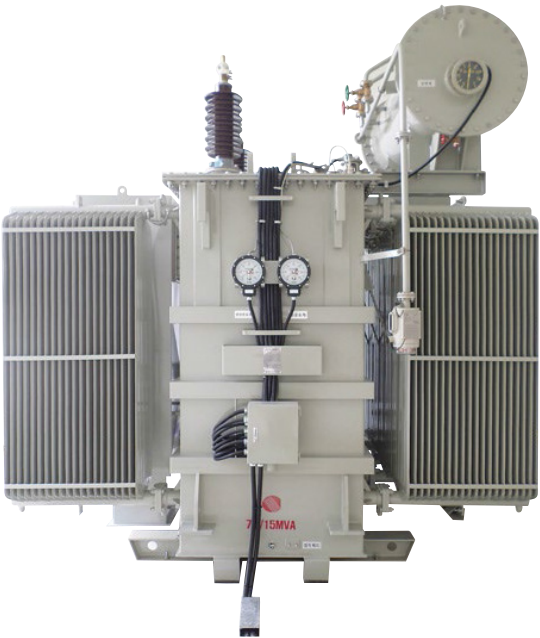
Technical Specification

Description	Single Phase	Three Phase
Ratings	Up to 500kVA	Up to 12MVA
Cooling	AA(AA) or AF(FA)	
Frequency	50Hz or 60Hz	
Insulation class	B or F	
Primary voltage	Up to 34.5kV	
Secondary voltage	Up to 25kV	
Core Material	Amorphous or CRGO	
Winding Material	Copper or Aluminum	
Tapping Range	Rated ± 5.0% (5 taps)	
Applicable Standards	IEC, IEEE, CSA, JIS and IEEE 693 for seismic requirement	

*Customized products are available according to customers’ specification and requirements.

Autotransformers

Cheryong’s Autotransformers are often used for step-up or step-down applications. It contains only one (common) winding with a portion of coil serving both primary and secondary winding. Our autotransformers are typically used for railways with smaller, lightweight size due to the sharing of single coil resulting in better voltage stability and greater overload tolerance. We offer both oil-immersed and cast resin type together with wide range of optional accessories to meet the requirements of our customers.

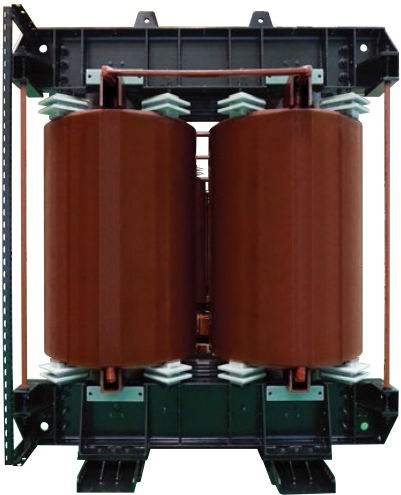


Applications

- Power stations
- Electronics testing centers
- Railways
- Places where continuously varying voltage supplies are required

Standard Accessories

- Winding temperature indicator
- Oil level indicator
- Pressure relief device
- Buchholz relay
- Sudden pressure relay



Technical Specification

Description	Single Phase
Type	Oil-immersed or Cast Resin
Ratings	Up to 30MVA
Cooling	ONAN, ONAF
Frequency	50Hz or 60Hz
Primary Voltage	Up to 55kV
Secondary Voltage	Up to 27.5kV
Winding Material	Copper or Aluminum
Applicable Standards	IEC

*Customized products are available according to customers’ specification and requirements.

Transformers

Cast Resin Transformers



Cheryong’s custom engineered Cast Resin transformers are well known domestically and internationally for their low noise and compact size. With the application of cast resin transformers, our customers can reduce costs on low voltage cabling for they are generally located and installed closer to the electrical load when compared to oil-immersed transformers. Reduction of maintenance cost and time is also another key factor.

Applications

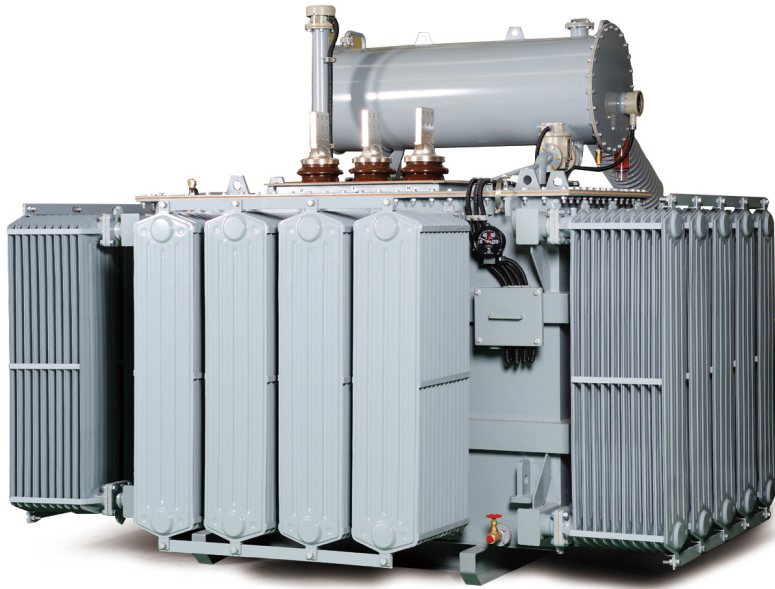
- Public works and utilities
- Railways and buildings
- Special industries
- Power generation

Technical Specification

Description	Single Phase	Three Phase
Ratings	Up to 500kVA	Up to 12MVA
Cooling	AN(AA) or AF(FA)	
Frequency	50Hz or 60Hz	
Primary Voltage	Up to 34.5kV	
Secondary Voltage	Up to 25kV	
Winding Material	Copper or Aluminum	
Tapping Range	Rated ± 5.0% (5 taps)	
Applicable Standards	IEC, IEEE, CSA and JIS	

*Customized products are available according to customers’ specification and requirements.

Oil-immersed Transformers



Cheryong’s Oil-immersed transformers are designed to provide the best performance and reliability. With our commitment to individualized solutions, we provide the highest quality of transformers meeting or exceeding special requirements of our customers. Cheryong also provides exceptional after-service by dispatching highly skilled engineers and technicians all over the world.

Applications

- Public works and utilities
- Transportation
- Special industries
- Power generation

Technical Specification

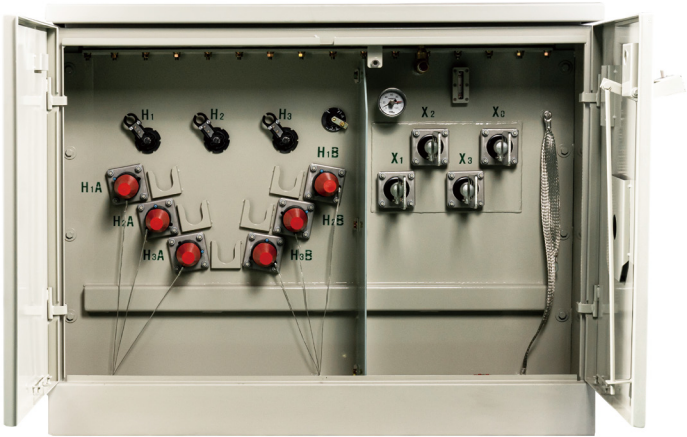
Description	Single Phase	Three Phase
Ratings	Up to 167kVA	Up to 60MVA
Cooling	ONAN or ONAF	
Frequency	50Hz or 60Hz	
Primary Voltage	Up to 69kV	
Secondary Voltage	Up to 69kV	
Winding Material	Copper or Aluminum	
Tapping Range	OCTC Type: Rated ± 5.0% (5 taps) / OLTC Type: Rated ± 10% (17 taps)	
Applicable Standards	IEC, IEEE, CSA and JIS	

*Customized products are available according to customers’ specification and requirements.

Transformers

PAD Mounted Transformers

Cheryong’s PAD Mounted transformers are applicable for installations at busy city streets by connecting them with underground cables. The transformers are also protected from internal and external problems by applying internal fuse. With various configurations and accessories available, Cheryong’s PAD Mounted transformer will meet wide range of application on demand.



Key Features

- High reliability
- Compact
- Insulated with either Mineral oil or Natural Ester fluid
- Various optional accessories are available upon request
- Dead front / loop feed type available
- Available in Amorphous Core

Applications

- Public works and utilities
- Transportation
- Special industries
- Power generation

Technical Specification

Description	Single Phase	Three Phase
Ratings	Up to 500kVA	Up to 3,000kVA
Cooling	ONAN, ONAF	
Frequency	50Hz or 60Hz	
Primary Voltage	Up to 38kV	
Secondary Voltage	Up to 38kV	
Core Material	Amorphous or CRGO	
Winding Material	Copper or Aluminum	
Tapping Range	OCTC Type: Rated $\pm 5.0\%$ (5 taps)	
Applicable Standards	IEC, IEEE, CSA and JIS	

*Customized products are available according to customers' specification and requirements.

Pole Mounted Transformers

Our Pole Mounted transformers are highly reliable and are manufactured as per the requirements of customers. Wide range of standards and optional accessories are available for selections.



Key Features

- Advanced manufacturing and testing facilities
- Various selection for optional accessories
- Durable and long lasting surface protection
- Robust construction
- Available in Amorphous Core

Applications

- Public works and utilities
- Households
- Special industries

Technical Specification

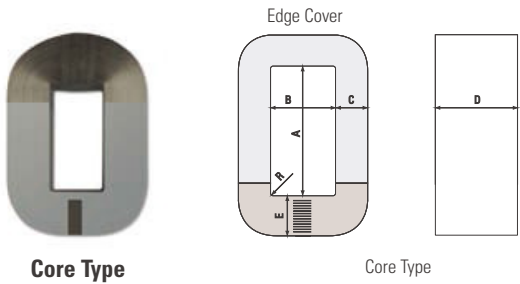
Description	Single Phase	Three Phase
Ratings	Up to 500kVA	Up to 500kVA
Cooling	ONAN	
Frequency	50Hz or 60Hz	
Primary Voltage	Up to 38kV	
Secondary Voltage	Up to 600V	
Core Material	Amorphous or CRGO	
Winding Material	Copper or Aluminum	
Tapping Range	OCTC Type: Rated $\pm 5.0\%$ (5 taps)	
Applicable Standards	IEC, IEEE, CSA and JIS	

*Customized products are available according to customers' specification and requirements.

Other Products

Amorphous Metal Core

Single Phase Core

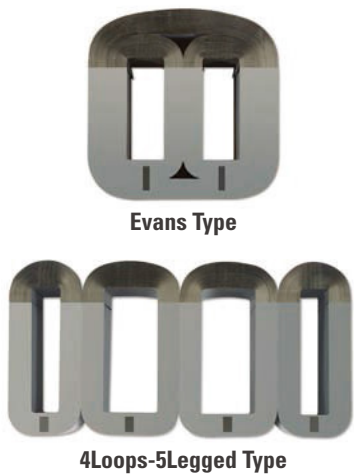


Technical Specification

- Voltage : 22.9kV or customer's requirement
- Frequency : 50, 60Hz
- Rating : 10~1,000kVA
- Type : Wound(Core type and Shell type)
- Recommended magnetic flux density : 1.25~1.35T

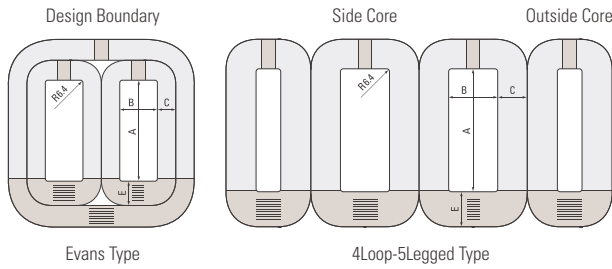
Index	Design Scope	Tolerance
A=Window Height	130mm≤A≤1,500(in 5mm increments)	+3mm
B=Window Width	60mm≤A≤1,000(in 5mm increments)	+3mm
C=Build	25mm≤C≤250mm	Max.
D=Ribbon width plus edge cover	Ribbon Nominal width+4mm	Max.
E=Joint Build	E=C×1.25(Normal)	
R=Corner Radius	R≥6.4 or customer's requirement	±1.5mm
Weight Limitation	Minimum:13kg, Maximum:2,000kg	
Lamination Factor	86%	

Three Phase Core

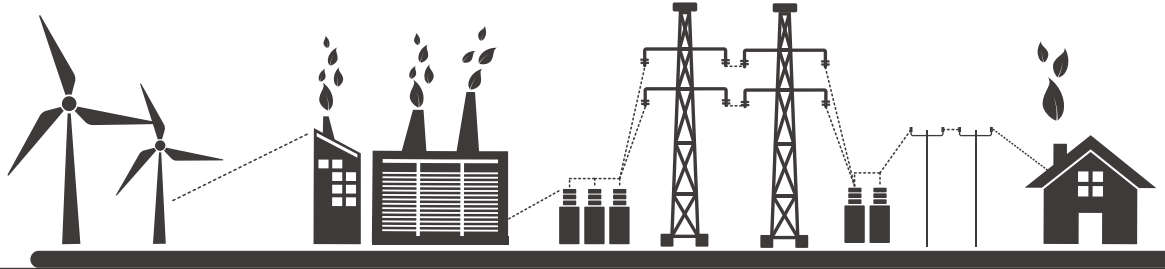


Technical Specification

- Voltage : 22.9kV or customer's requirement
- Frequency : 50, 60Hz
- Rating : 3P Oil-immersed up to 15,000kVA
3P Cast Resin up to 5,000kVA
- Type : Wound(Evans & 4Loop 5Legged)
- Recommended magnetic flux density
- 3P Oil-immersed type : 1.25~1.35T - 3P Cast Resin type : 1.2~1.3T



Index	Design Scope	Tolerance
A=Window Height	130mm≤A≤1,800(in 5mm increments)	+3mm
B=Window Width	60mm≤A≤1,500(in 5mm increments)	+3mm
C=Build	25mm≤C≤250mm	Max.
D=Ribbon width plus edge cover	Ribbon Nominal width+4mm	Max.
E=Joint Build	E=C×1.25(Normal)	
R=Corner Radius	R≥6.4 or customer's requirement	±1.5mm
Weight Limitation	Evans Min:13kg, Max:7,500kg 4L5L Min:13kg, Max:7,500kg	
Lamination Factor	86%	



Cheryong Electric's
Eco-friendly Products

Transformers



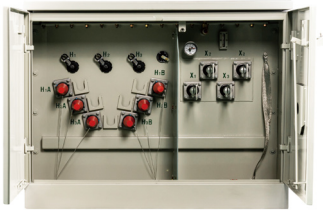
Cast Resin Transformer (Amorphous / CRGO)



Oil-immersed Transformer (Amorphous / CRGO)



Pole Mounted Transformer (Amorphous / CRGO)



PAD Mounted Transformer (Amorphous / CRGO)



Solid Insulation Distribution Transformer



Submersible Transformer (Amorphous / CRGO)

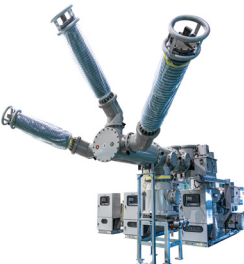
Switchgears



25.8(29)kV GIS



72.5kV GIS



170kV GIS



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