

The enterprise has passed
ISO9001: 2015 quality management, 3C certification
ISO14001: 2015 environmental management
ISO45001: 2018 occupational health and safety management system certification
IEC60076: IEC62271 certification
IEEE C57.12.01 IEC 60076-11/16
IEEE C57.12.91 IEC 50588-1
UL 5085-1



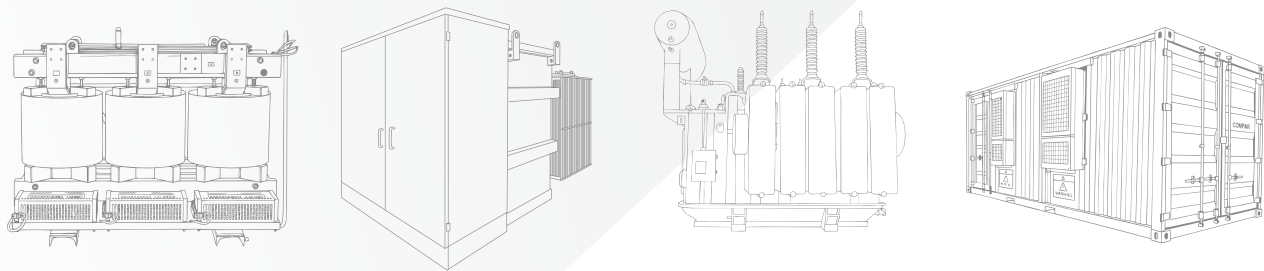
DINGXIN ELECTRIC

Empowering the Future
with Excellence and Innovation.

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JIANGSU DINGXIN
ELECTRIC CO., LTD.

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An expert in electrical
equipment manufacturing

COMPANY PROFILE

50,000+

Land area

370,000,000

Total assets

260+

Equipment

100+

Product types

JIANGSU DINGXIN ELECTRIC CO., LTD.

Jiangsu Dingxin Electric Co., Ltd. is located at Haian Development Zone of Jiangsu Province, which is a Jiangsu High-tech Enterprise specialized in electrical equipment with annual production capacity 5,000,000 KVA. Main products are 220KV, 110KV Large-scale ultra-high-voltage transformers; voltage class below 35KV; Three-phase oil-immersed power transformers with capacity below 31,500KVA; Single-phase pole mounted transformer; Three-phase pad mounted transformer belongs to IEEE; European pad mounted transformer and YBM prefabricated substation belongs to IEC; Oil-immersed power transformer; Fully sealed oil-immersed distribution transformer and dry type transformer belongs to IEC or IEEE.; High and low voltage switchgear assembly; Wind substation; Photovoltaic substation and so on.

The company covers an area of 50,000 square meters with total assets 370 million. It has more than 260 full sets of CNC transverse shear line, the slitting line, the vacuum drying, the foil winding machine, the vacuum impregnating tank, the testing equipment and so on. Products form 22 series, more than 100 varieties, more than 600 specifications with strong supporting ability.



Quality



Cooperation



Innovation



Service

Driving Development with Technology and Quality

The company attaches great importance to the market development and the technical update. The products enjoy a good reputation among users and are highly favored. The company will take the technological innovation as the breakthrough to strengthen product serialization and product quality internationalization. It takes the road of the combination of production, study and research school-enterprise relationship with colleges and universities to develop various products with high and new technology with added value.

Jiangsu Dingxin Electric CO., LTD. is willing to cooperate with customers at home and abroad with the excellent technology, the advanced equipment, the satisfactory quality, the excellent service. The flexible operation and the good reputation to seek the common development and create brilliant power equipment industry.



Empowering the
Future with Excellence
and Innovation.

COOPERATIVE CLIENT

Our company has all kinds of professional technical personnel for the advanced product and designing software, who account for **18%** of the total staff.

The company has passed ISO9001:2015 Quality Management System Certification, ISO14001:2015 Environmental Management System Certification, 3C Certification and ISO45001:2018 Occupational Health and Safety Management System Certification.

And they are sold in the national market and exported to countries covering Europe,America,Australia,Indonesia,Russia,Africa and Vietnam.



The transformers produced by our company has the characteristics of the low loss, the low noise, the energy saving and the environmental protection. The set of high and low voltage switchgear has the characteristics of the reasonable structure and beautiful shape and its technical performance and other indicators have reached the domestic advanced level, widely used in urban and rural power grids, petrochemical, metallurgy, light textile enterprises, ores, ports, residential areas and so on. The company's sales and service network are throughout the country nearly 30 provinces, cities, autonomous regions and **20** countries.

Main partner



The company has a long-term cooperation with State Grid Corporation of China, China Southern Power Grid,Meng-Xi Power Grid, China Gezhouba Corporation, China Railway Group, China Three Gorges, China Datang Group,China Xidian Group,Taikai Group,Tbea Eletronic CO., Ltd .and other domestic well-known enterprises. At the same time, it is also a number of electrical industry listed qualified suppliers.

ENTERPRISE QUALIFICATION

Professional and dedicated created
Dingxin People to striving for perfection



CORPORATE CULTURE

Enterprise Spirit

Make the concerted efforts to surpass the self,
Create value and serve the society.



Quality Policy

Quality is the life of our enterprise and perfect quality is our eternal pursuit.



Management Idea

Customers are gods and are more relatives. For customers' service and customers' satisfaction are our only constant purpose.



Talent Concept

The staff are the pillar of the enterprise development. We pursue love, although we come from all over the world. We have a common home - Dingxin, we help each other in times of difficulty, equality for trust and the mutual love.



Research Strategy

Our pursuit the win-win corporate value of and always create the value for customers is the premise of our enterprise's survival and development. The pursuit of value maximization,we pursue the perfect unity of value, customer value and social value.



PRODUCTS

THREE-PHASE PAD MOUNTED TRANSFORMER

Combined transformers also named as American Box-type Transformer is a new product specially designed for power distribution network by absorbing foreign advanced technology and design concept with combining the national conditions closely of Jiangsu Dingxin Electric Co., Ltd. Voltage class 10KV and below. It is suitable for the commercial centers, the residential areas, the industrial and mining enterprises, the hospitals, the schools, the airports, the stations, the ports, the subways and other places.



Production Features

Fully sealed, fully insulated structure, reliable protection of personal safety; Small size, compact structure (its size is only 1/3 of the European type transformer with the same capacity), flexible and convenient installation. It can be used in the ring network and also be used in the terminal with the convenient conversion to improve the reliability of power supply. The cable connector can operate with 200A load current. In the emergency load switch with the characteristics of disconnecting switch. Low loss, low noise, strong resistance to short circuit and overload. Double fuse full range protection, high - voltage protection. The latest generation of products with phase - proof function; load switch optional electric structure to meet the automation requirements of distribution network. The box adopts three prevention treatment and be suitable for all kinds of harsh environment.

Product Scope

- Max. Voltage: Up to 35 kV
- Tap changer type : Off load and Load tap changers
- Available Fluids: Mineral Oil and FR3(Vegetable Oil)
- Standard: IEEE, DOE, NEMA, IEC, CSA and customer's requirement etc.

Application

High efficiency design Special Ambient Design Low Sound Level Design 50 Hz and 60 Hz Design K-factor Rating

HV Bushing Config:

1. Dead front or live front
2. Loop feed or radial feed

Fluid Options:

1. Type II Mineral Oil
2. Envirotemp™ FR3™

Standard Gauge/Accessory Package:

1. Pressure relief valve
2. Pressure vacuum gauge
3. Liquid temp & level gauges
4. Drain & sample valve
5. Adjustment taps

Switch Options:

1. 2 Position LBOR Switch
2. 4 Position LBOR Switch (V-blade or T-blade)
3. 2 Position LBOR Switches

Fusing Options:

Bayonets w/ isolation links or CLFs

Construction:

1. 3-legged core or 5-legged core
2. Rectangular wound copper or aluminum windings
3. Carbon reinforced or stainless steel tank
4. Steel divider between HV and LV cabinets
5. Penta-head captive bolt

Optional Design Features & Accessories:

1. Gauges w/ Contacts
2. External drain and sample valve
3. Electrostatic Shielding
4. K-Factor Design
5. Step-up Design
6. Surge-Arresters

THREE-PHASE PAD MOUNTED TRANSFORMER Standares Characteristics

Base KVA Rating	45, 75, 112.5, 150, 225, 300, 500, 750, 1000, 1250, 1500, 1750, 2000, 2250, 2500, 2750, 3000, 3750, 5000
Frequency	60 Hz or 50 Hz
Standares	IEEE, NEMA, CSA, IEC etc.
Cooling Class	ONAN or KNAN
Temp Rise	55°C, 65°C, 55/65°C
Winding Material	Copper/Aluminum
Core Material	Silicon Steel
Oil Type	1.Type II Mineral Oil 2.FR3 Oil
Voltages	Available in Δ or Y configuration

Operating Voltages for 300kVA through 1500kVA Rating

High Voltages (HV)	· 4160Grd Y / 2400V through 34500Grd Y / 19920V · 2400V through 34500V Delta · Various Dual high voltages
High Voltage Taps	· All voltages are available with 5 or 7 step taps · Dual voltage taps provided only on the higher voltage
Low Voltages (LV)	· 208Y/120V, 480Y/277V, 480V, 240V, and 240V with 120V mid-tap in one phase · 4160Y/2400V, 4160V, 2400V
Primary Insulation Classes	35kV, 200kV BIL and below

Operating Voltages for 2000kVA through 7500kVA Rating

High Voltages (HV)	· 12470Grd Y / 7200V through 34500Grd Y / 19920V · 4160V through 34500V Delta · Various dual high voltages
High Voltage Taps	· All voltages are available with 5 or 7 step taps · Dual voltage taps provided only on the higher voltage
Low Voltages (LV)	· 480Y/277V, 480V, 240V · 4160Y/2400V, 4160V, 2400V
Impedance Guidelines	· 300kVA-500kVA: 2.8-5.0% nominal · 750kVA-2500kVA: 5.75% nominal · 3000kVA-7500kVA: consult KEYUAN ELECTRIC



PRODUCTS

SINGLE-PHASE POLE MOUNTED TRANSFORMER



Dingxin manufactures a complete line of single-phase pole transformers product line. Single-phase transformers are available as conventional (5-167kVA), completely self-protected (CSP 5-75kVA), or interrupter-protected (5-167kVA) in a variety of ratings to meet or exceed the requirements of applicable ANSI® and NEMA® standards. Units designed per Rural Utilities Service (RUS) standards are also available. CSP transformers have direct connected primary arresters, secondary circuit breakers, and internal primary voltage fuses. This eliminates the need for separately mounted protective devices and provides reduced installation costs.

General explanation

Three-phase pad-mounted transformer is designed to protect environmental hazards. All transformers are developed and produced especially to satisfy exacting customer's exact specification. The latest applicable standards (ANSI, NEMA, DOE, IEEE) have been applied to all of the transformers.

Three-phase pad-mounted transformers are available in live-front or dead-front designs. Both radial and loop feed configurations are built based on ANSI standards. The dead-front bushing configurations are in accordance with ANSI 57.12.26, live front per ANSI C57.12.22. This establishes an underground supply of electric power system burying processing distribution line in land as suitable transformer at beauty of city environment. The quality of corrugated style radiator is superior to panel style radiator which is mainly used in existing.

1. Dingxin manufacturer to have excellent cooling effect by finned radiator or corrugate cooling way and external appearance is beautiful.
2. Dingxin proven design offers excellent mechanical strength that has been proven through years of service and special testing.
3. We are constantly trying our best to introduce innovative products to the transformer industry, bringing you the high quality transformer with competitive cost.

Standard features

- | | |
|--|--|
| <ul style="list-style-type: none">• Meet or exceeds ANSI® and NEMA® standards | <ul style="list-style-type: none">• Heavy-duty lifting lugs and hanger brackets per ANSIR requirements |
| <ul style="list-style-type: none">• Meets DOE Energy Efficiency Standard 10 CFR Part 431 for distribution transformers | <ul style="list-style-type: none">• Visible cover ground on units with cover-mounted bushings |
| <ul style="list-style-type: none">• EPRI recommended interlaced core-type design (5-75 kVA)• Tank coating exceeds IEEE Std C57.12.31™-2010 standard | <ul style="list-style-type: none">• Recessed tank bottom that offers protection when sliding over rough surfaces |
| <ul style="list-style-type: none">• Cover with a minimum dielectric strength of 8 kV | <ul style="list-style-type: none">• Automatic pressure relief device |
| <ul style="list-style-type: none">• Tin-plated high and low-voltage bushing terminals to accommodate aluminum or copper conductors | <ul style="list-style-type: none">• Polymer low-voltage bushings (5-75 kVA) |
| <ul style="list-style-type: none">• Laser-engraved nameplate | <ul style="list-style-type: none">• Arrester mounting and grounding provisions |
| <ul style="list-style-type: none">• Wet process porcelain high-voltage bushings resistant to high-voltage corona | <ul style="list-style-type: none">• Internal mark indicating the proper oil level |
| <ul style="list-style-type: none">• Tank grounding provisions | <ul style="list-style-type: none">• Permanently stamped secondary leads to ensure proper identification |
| <ul style="list-style-type: none">• Envirotemp™ FR3™ fluid or electrical grade mineral oil | <ul style="list-style-type: none">• Corrosion-resistant cover band |
| | <ul style="list-style-type: none">• Quality System ISO 9001 certified |

PRODUCTS

SINGLE-PHASE PAD MOUNTED TRANSFORMER

Dingxin manufactures a single-phase pad mounted transformer is a ground-level electrical distribution transformer housed within a robust, lockable, tamper-resistant, and weatherproof metal enclosure. Designed for outdoor installation on a concrete slab or "pad," it serves as a crucial component in the electrical grid, typically stepping down higher distribution voltages (like 15kV, 25kV, or 35kV) to the standard single-phase utilization voltage (120/240V or 120/208V) used to power residential homes, small businesses, and light commercial loads.

As an independent complete set of power transformation and distribution device with rated capacity of 63-1600kVA in AC 50Hz, 6-10kV network, it combined transformer can be used both outdoors and indoors. It is widely used in industrial parks, urban residential areas, commercial areas, high-rise buildings, temporary construction sites and other places.

Compact and easy to install

1

Low loss and high durability

2

Sealed and reliable

3

Flexible wiring options

4

Simple and cost-effective

5

● Application field

It is applicable to small unattended substations with voltage of 35KV and below and main transformer capacity of 5000KVA and below, and is widely used in urban industrial substations, 10KV ring network systems, 35KV rural power grid substations and other occasions.

● Normal environmental conditions

- Upper limit of ambient air temperature:+40°C, lower limit: - 25°C.
- Altitude: not more than 1000m.
- Relative ambient temperature: air humidity is not more than 90%.
- Outdoor wind speed shall not exceed 35m/s.
- The ground inclination is not more than 5°, and there is no severe vibration and impact.
- There is no conductive dust, no explosion hazard, and no corrosive metal and electrical components.

● Special working conditions

When the product is used under normal environmental conditions beyond the specified limit, the user shall negotiate with our company.



● SINGLE-PHASE PAD MOUNTED TRANSFORMER

Rated Power (KVA)	High Voltage (V)	Low Voltage (V)	Loss(W)		Dimension			Weight	
			No-load Loss (W)	On-load Loss (W)	W	D	H	Oil Weight (KG)	Total Weight (KG)
15	34500/19920 13800/7957 132007620 12470/7200 or others	120-240 240-480 347 600	50	195	610	740	840	45	294
25			80	290	610	740	840	68	362
37.5			105	360	610	760	840	75	476
50			135	500	610	810	840	93	553
75			190	650	610	860	840	132	672
100			210	850	740	940	910	141	742
167			350	1410	760	1190	910	207	952

PRODUCTS

EUROPEAN BOX SUBSTATION

✦ High Voltage/Low Voltage
Prefabricated Substation

YBM 29 High Voltage/Low Voltage Prefabricated Substation also known as European box-type transformer substation is a high voltage electrical equipment, power transformers,low voltage electrical equipment combination in one compact with the small volume.It is easy to move, safe and reliable operation, the beautiful shape and other characteristics, which is especially suitable for the urban public power distribution, the high-rise buildings, the residential areas, the industrial and mining enterprises, the ports, the oilfields,the parks,the stations,the airports,the subways, the highways and other power supply places and is a new type of power distribution equipment.

● Service condition

- Altitude: ≤1000m
- Environmental temperature: -30°C~+40°C
- The relative humidity of the air does not exceed 90% (+25°C)

The product shall be installed in a place free from fire,explosion, serious pollution, chemical corrosive gas and violent vibration. In case of any breach of these technical conditions,the case shall be handled by the user in consultation with the manufacturer.

● Service condition

The box-type transformer is available in multiple structural forms, such as "MU" and "PIN" types. Its frame is welded from high-quality channel and angle steel, ensuring high mechanical strength. The enclosure is made of corrosion-resistant aluminum alloy with a clean, modern appearance that blends well with the environment. Lifting devices at the base provide convenient transport and installation.

The transformer is divided into three independent compartments:
high-voltage room, transformer room, and low-voltage room.

01 High-Voltage Room

Equipped with a ring main unit (RMU), it supports air or vacuum load switches per user requirements. It includes a five-prevention interlock system. When using current-limiting fuses, the load switch automatically trips upon single-phase fuse operation to prevent phase-loss faults.

02 Transformer Room

Supports natural ventilation and an optional automatic forced air-cooling system that adjusts based on internal temperature. An anti-condensation device can also be added upon request. Compatible with both dry-type and oil-immersed transformers. Oil-immersed types can be with or without an oil conservator (fully sealed).

03 Low-Voltage Room

Accommodates a complete set of low-voltage switchgear, customizable to user needs. Switch cabinets are built from high-quality sectional steel with excellent corrosion resistance. Both HV and LV cables typically use cable-type connections.

● Main reference dimensions

Capacity (KVA)		50-250	315-630	800-1600
Arrangement From	No corridor	2800×1800×2560	3400×2000×2560	3800×2400×256
	With corridor	3400×2280×2560	4000×2280×2560	4400×2580×256
Looped Network	No corridor	2800×2480×2560	3400×2480×2560	3800×2580×256
	With corridor	3400×2480×2560	1000×2480×2560	4400×2580×256

✦ Note: The data in the table is subject to change without prior notice, and the product is subject to delivery.

● YBM Combined transformer substation

High voltage main loop scheme

Kinds of box transformer substation	B	L	H
"MU" type	2000~3000	2500~4500	2000~3300
"PIN" type	1800~3000	2000~4000	2000~3300





PRODUCTS

EUROPEAN BOX SUBSTATION

✧ High Voltage/Low Voltage
Prefabricated Substation



DINGXIN ELECTRIC
An expert in electrical
equipment manufacturing

PRODUCTS

THREE-PHASE OIL-IMMERSED DOUBLE-WINDING VOLTAGE REGULATION WITHOUT EXCITATION POWER TRANSFORMER

✧ S(F)11-800~31500/35

Regular Service Condition

- Device Type : Outdoor type
- Environmental temperature: Upper Limit +40°C
- Lower Limit: -25°C
- Altitude:1000m
- Air Relative Humidity: ≤90%(+25°C)

This product is mainly used in industrial
power and power transmission and
transformation engineering.

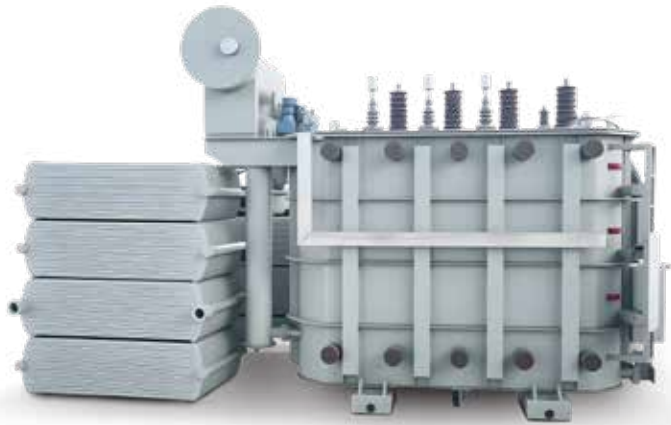
Products comply with IEC 76 standard.
It also can take off the oil tank
according to IEEE standard.

Symbols and Meanings

- S-Three Phases oil-immersed transformer
- (F)-Cooling Mode:
- "F" means air cooling and
- "Free F" means self cooling 11-Performance Level
- ▶ Rated Capacity(KVA)
- ▶ Voltage Cass (KV)

Standards

- IEC 60076-1/3/5
- IEEE C57.12.00
- IEEE C57.12.90
- ANSI C57.12.10



Technical Parameters

Product Model	Rated Capacity (KVA)	Voltage Combination		Connection Symbol	Consumption(KW)		No-load Current (%)	Short Circuit Impedance (%)
		High Voltage (KV)	Low Voltage (KV)		No-load Loss	On-Load Loss		
S11-800/35	800	35±×5%	10.5 6.3 3.15	Yd11	0.98	9.40	0.65	6.5
S11-1000/35	1000				1.15	11.5	0.65	
S11-1250/35	1250				1.40	13.9	0.55	
S11-1600/35	1600				1.69	16.6	0.45	
S11-2000/35	2000				2.17	18.3	0.45	
S11-2500/35	2500	38.5±×2.5% 35±2.5%	11 10.5 6.6 6.3 3.3 3.15	Ynd11	2.56	19.6	0.45	7.0
S11-3150/35	3150				3.04	23.0	0.45	
S11-4000/35	4000				3.61	27.3	0.45	
S11-5000/35	5000				4.32	31.3	0.45	
SF11-6300/35	6300				5.24	35.0	0.45	
SF11-8000/35	8000	38.5±2×2.5% 35±2×2.5%	11 10.5 6.6 6.3 3.3 3.15	Ynd11	7.20	38.4	0.35	8.0
SF11-10000/35	10000				8.70	45.3	0.35	
SF11-12500/35	12500				10.0	53.8	0.30	
SF11-16000/35	16000				12.1	65.8	0.30	
SF11-20000/35	20000				14.4	79.5	0.30	
SF11-25000/35	25000				17.0	94.0	0.25	
SF11-31500/35	31500				20.2	112	0.25	10.0

✧ Note: The data in the table is subject to change without prior notice, and the product is subject to delivery.

PRODUCTS

OIL-IMMERSED
POWER TRANSFORMER

* 110KV~220KV

High pressure transformer, use analysis software and calculation and validation procedures to the transformer core, winding, implement body, lead, fuel tanks, etc, Parts of the optimal design and carry on the omni - directional validation, ensure product performance. Superior process equipment elaborate material selecting and efficient manufacturing.making the transformer has small volume, light weight low loss, low partial discharge, low noise characteristics, the product quality is superior, energy conservation and environmental protection,easy installation and maintenance, reliable operation and effectively reduced products running costs.

Features

Stable performance

1

Reliable quality

2

High cost-effectiveness

3

Energy-saving and environmentally friendly

4



This product is suitable for generators, transformer substations, large mining and petrochemical enterprises.

Technical Parameters

110KV Three Phase Copper 100% Power Transformer Main Technical parameters

Rated capacity (KVA)	No-load loss (KW)	On-load loss (KW)	No-load electricity (%)	Short-circuit impedance (%)	Dimension (L×W×H) (mm)	Total Weight (kg)
6300	10	36.9	0.6	10.5	4540×4350×4580	21100
8000	12	45	0.6		4860×4400×4630	24600
10000	14.2	53.1	0.5		4900×4450×4830	27900
12500	16.8	63	0.5		5010×4500×4960	31600
16000	20	77	0.45		5620×4520×5080	35600
20000	24	91.7	0.4		5730×4550×5200	39800
25000	28.4	110.7	0.4		5820×4590×5290	45200
31500	33.5	133.2	0.35		5930×4820×5400	49600
40000	40.4	156.6	0.3		6100×4930×5500	57100
50000	47	194.4	0.25		6450×5050×5590	64700
63000	56.8	234	0.25		6970×5190×5690	71800

220KV Three Phase Copper Power Transformer Main Technical parameters

Rated capacity (KVA)	High voltage (KV)	Connection Symbol	No-load Loss (KW)	On-Load Loss (KW)	Off-load current (%)
31500	220/230	Ynd11	35	135	0.7
40000			41	157	0.7
50000			49	189	0.65
63000			58	220	0.65
75000			67	250	0.6
90000			77	288	0.55
120000			94	345	0.55
150000			112	405	0.5
160000			117	425	0.49
180000			128	459	0.46
240000			160	567	0.42

* Note: The data in the table is subject to change without prior notice, and the product is subject to delivery.

PRODUCTS

OIL-IMMERSED
DISTRIBUTION TRANSFORMER

✱ S13-M-30~3150/10

The fully sealed transformer adopts the type of fully oil-filled seal.Corrugated oil tank shell is a permanent-ly sealed oil tank with its own elasticity to adapt the expansion of oil. It has been widely used in the power distribution equipment.



Symbols and Meanings

- S-Three Phases
- Performance Level Code(Design Models)
- M-Omniseal
- Rated Capacity(KVA)
 - High Voltage Class (KV)

Standards

- IEC 60076-1/3/5
- IEEE C57.12.00
- IEEE C57.12.90
- ANSI C57.12.10

Protective Service:

30%

S11 no-load losses decreased by an average of 30% compared to IEEE C57.12.00 or IEC 60076 and IEC 50588

5%

Load losses decreased by an average of 5% compared to IEEE C57.12.00 or IEC 60076 and IEC 50588

Pressure relief valve

When the internal pressure of the transformer reaches 35 Kpa due to the fault, the pressure release valve will be activated to release the pressure or alarm. When the pressure is reduced to the normal value, the transformer will be restored to its original state, to ensure the transformer to continue to operate.

Temperature measuring device

Transformers of 800kVA and above are equipped with signal thermometers and gas relays. Suitable temperature tripping or alarm, light or heavy gas alarm.

Advanced Winding
Structure

Strong Mechanical
and Shock Resistance

Excellent Drying
and Insulation

Optimized
Tank Design

Maintenance-
Free Operation
and Long Lifespan

● Regular Service Condition

- The altitude shall not exceed 1000 m.
 - Maximum Ambient Temperature +40°C
 - Maximum Annual Mean Temperature +20°C
 - Indoors or Outdoors
 - Maximum Daily Mean Temperature+30 °C
 - Minimum Air Temperature -25 °C
- Transformers operating under the special service conditions can be provided according to customers' requirements.

● Technical Parameters

Rated capacity (KVA)	Voltage combination			Connection Symbol	S13		Short-circuit impedance (%)
	High voltage (KV)	Branching (%)	Low voltage (KV)		No- load Loss (KW)	On-Load Loss (KW)	
30	6	±5	0.4	Dyn11 Yzn11 Yyn0	0.080	0.630/0.600	4.0
50					0.100	0.910/0.870	
63					0.110	1.090/1.040	
80					0.130	1.310/1.250	
100					0.150	1.580/1.500	
125					0.170	1.890/1.800	
160					0.200	2.310/2.200	
200					0.240	2.730/2.600	
250					0.290	3.200/3.050	
315					0.340	3.830/3.650	
400	10.5	±2×2.5	0.4	Dyn11 Yyn0	0.410	4.520/4.300	4.5
500					0.480	5.410/5.150	
630					0.570	6.200	
800					0.700	7.500	
1000					0.830	10.300	
1250					0.970	12.000	
1600					1.170	14.500	
2000					1.550	18.300	
2500					1.830	21.200	

✱ Note: The data in the table is subject to change without prior notice, and the product is subject to delivery.

PRODUCTS

SEALED AMORPHOUS ALLOY POWER TRANSFORMER

✧ SH15-M-30~2500/10

The product is fully oil - filled seal type. The principle is the same as the sealed power transformer. The basic elements of amorphous alloys are iron,nickel, cobalt, silicon,boron and carbon. It is a kind of isotropic soft magnetic material with the small magnetization power, no structural defects in the common domain walls and extremely thin thickness with only 0.027mm. The filling coefficient is correspondingly smaller with only 0.75-0.8 and the resistivity is very high, which is 3-6 times of that of silicon steel sheet and the hardness is 5 times of that of silicon steel sheet. The amorphous material is particularly sensitive to the stress.



Standards

- ISO 5801
- IEC 60076-2
- IEC 60076-14

15%

The load loss of products decreased by15% from IEEE C57.12.00 or IEC 60076and IEC 50588.

70%

The standard value and the no-loaddamage decreased by 70% from IEEEC57.12.00 or IEC 60076 and IEC 50588.

● Technical Parameters

Rated capacity (KVA)	Voltage combination			Connection Symbol	No-load Loss (W)	On-Load Loss (W)	No-load Current (%)	Short-circuit impedance (%)
	High voltage (KV)	Branching (%)	Low voltage (KV)					
30	6	±5 ±2×2.5			33	600	1.70	4.0
50					43	870	1.30	
63					50	1040	1.20	
80					60	1250	1.10	
100					75	1500	1.00	
125					85	1800	0.90	
160					100	2200	0.70	
200					120	2600	0.70	
250					140	3050	0.70	
315					170	3650	0.50	
400					200	4300	0.50	
500					240	5150	0.50	
630					320	6200	0.30	4.5
800					380	7500	0.30	
1000					450	10300	0.30	
1250					530	12000	0.20	
1600					630	14500	0.20	
2000					750	17400	0.20	
2500					900	20200	0.20	5

✧ Note: The data in the table is subject to change without prior notice, and the product is subject to delivery.

PRODUCTS

F LEVEL OF RESIN CAST DRY DISTRIBUTION TRANSFORMER



✱ SC(B)10\12\13-30~4000/10

The dry-type transformer with high and low voltage winding is sealed with the thin layer epoxy resin, which has the advantages of flame retardant, self-extinguishing, moisture-proof and heat dissipation .It can go deep into the load center. For example: high - rise buildings,air-ports,docks,power plants,residential areas or complete sets of substation and other places.



● **Features**

Fire Performance 1	Economy Installation 2
Maintenance Free 3	Moisture Resistance 4
Good Insulation 5	High Temperature Resistance 6

Standards

- IEEE C57.12.01
- UL 5085-1
- IEC 50588-1
- IEEE C57.12.91
- IEC 60076-11/16

● **Regular Service Condition**

- Altitude : ≤1000m Indoor
- Maximum Ambient Temperature +40℃
- Maximum daily mean temperature+30℃
- Maximum annual mean temperature+20℃
- Minimum air temperature-25℃

● **Technical Parameters**

SC(B)13-30~4000/10

Rated Capacity (KVA)	Voltage Combination And Tap Range			Connection Symbol	SC(B)13				Short Circuit Impedance (%)
	High Voltage (KV)	Tapping Range Of High Voltage%	Low Voltage (KV)		No-load Loss (KW)	130°C (B) (100°C)	155°C (F) (120°C)	180°C (H) (145°C)	
30	6	±5	0.4	Yyn0 Or Dyn11	0.135	0.605	0.640	0.685	4.0
50					0.195	0.845	0.900	0.965	
80					0.265	1.160	1.240	1.330	
100					0.290	1.330	1.410	1.520	
125					0.340	1.560	1.660	1.780	
160					0.385	1.800	1.910	2.050	
200		±2.5			0.445	2.130	2.270	2.440	
250					0.515	2.330	2.480	2.660	
315					0.635	2.940	3.120	3.350	
400					0.705	3.370	3.590	3.850	
500					0.835	4.130	4.390	4.700	
630					0.965	4.970	5.290	5.660	
630					0.935	5.050	5.360	5.760	
800					±5	1.090	5.890	6.260	6.710
1000		1.270				6.880	7.310	7.880	
1250		1.500				8.190	8.720	9.330	
1600		1.760				9.940	10.500	11.300	
2000		2.190				12.200	13.000	14.000	
2500	2.590	14.500	15.400	16.600					
1600	1.760	11.000	11.600	12.500					
2000	2.190	13.500	14.300	15.400					
2500	2.590	15.900	17.000	18.200					

✱ Note: The data in the table is subject to change without prior notice, and the product is subject to delivery.

PRODUCTS

DRY TYPE TRANSFORMER

✳ 20KV LEVEL
35KV LEVEL SC(B)10\SC(B)11 SERIES



This series of products are used to directly reduce 35kV, 20kV power supply of power grid to 400V power distribution power supply or 10kV power transmission power supply to power users. Because of its obvious advantages, it has been adopted by more and more projects.

● Features

Small footprint

1

Low project investment

2

Low maintenance cost

3

Low line loss

4

High power supply reliability

5

Low noise

6

● Features

Our company's SCB Series 35kV level, 20kV level non-excitation voltage regulating dry transformers are the low loss product and in line with the requirements of National Standards IEEE C57.12.01,IEC 60076-11.It has the following characteristics.

- ① High performance and low loss for the replacement of the 9 series.
- ② High quality silicon steel sheet is selected, meanwhile,the magnetic flux density is greatly reduced and the magnetostriction amount of silicon steel sheet in operation is reduced. The noise is effectively reduced.
- ③ The structure of high voltage coil is optimized and the distribution of voltage and capacitance between layers is improved. The impulse capacity of products to withstand atmospheric overvoltage and operating overvoltage is greatly improved and the distribution of electric field is also improved to further reduce the local volume of products.
- ④ The temperature control system and air cooling device can be configured to automatically start the fan cooling device when the load is too large, effectively improving the equipment overload capacity.

● Technical Parameters

20KV LEVEL SC(B)10 SERIES OF DRY TYPE TRANSFORMER

Rated capacity (KVA)	Connection Symbol	Voltage Combination			No-load Current (%)	Load Losses At Different Insulation And Heat Resistance Levels(W)			On-Load Loss (W)	Short-circuit impedance (%)
		High voltage (KV)	Tapping Range Of High Voltage%	Low voltage (KV)		B(100°C)	B(100°C)	B(100°C)		
50	Yyn0 Or Dyn11	20 22 24	±5% Or ±2×2.5%	0.4	2.4	1230	1300	1390	380	6.0
100					2.2	1980	2700	2250	600	
160					1.8	2470	2500	2800	750	
200					1.8	2950	3100	3910	820	
250					1.6	3440	3500	4600	940	
315					1.6	4100	4300	5460	1080	
400					1.4	4900	5100	6500	1280	
500					1.4	5800	6100	7750	1500	
630					1.2	6880	7200	9300	1700	
800					1.2	8230	8700	11000	1950	
1000					1.0	9720	10300	13000	2300	
1250					1.0	11500	12150	75650	2650	
1600					1.0	13780	14600	18500	3100	
2000					0.8	16300	17250	21800	3600	
2500					0.8	19350	20400	20000	4300	
2000					0.8	17800	18800	30000	3600	8.0
2500					0.8	21300	22400	23900	4300	

✳ Note: The data in the table is subject to change without prior notice, and the product is subject to delivery.

35KV LEVEL SC(B)10 SERIES OF DRY TYPE TRANSFORMER

Rated capacity (KVA)	Connection Symbol	Voltage Combination			No-load Current (%)	No-Load Loss (W)	On-Load Loss (W)	Impedance Voltage(%)
		High voltage (KV)	Tapping Range Of High Voltage%	Low voltage (KV)				
SCB10-315/35	Yyn0 Or Dyn11	35 Or 38.5	±5 Or ±2×2.5	0.4 3.15 6 6.3 10 10.5 11	2	1160	4170	6 7 8 9
SCB10-400/35					2	1360	5360	
SCB10-500/35					2	1600	6590	
SCB10-630/35					1.8	1840	7680	
SCB10-800/35					1.9	2220	9350	
SCB10-1000/35					1.9	2640	10880	
SCB10-1250/35					1.7	3090	12840	
SCB10-1600/35					1.7	3650	15390	
SCB10-2000/35					1.5	4200	18110	
SCB10-2500/35					1.5	4800	21680	
SCB10-3150/35					1.3	5000	24400	
SCB10-4000/35					1.3	6950	29330	
SCB10-5000/35					1.1	8320	34770	
SCB10-6300/35					1.1	9840	40630	
SCB10-8000/35	Yd11 Or Ynd11				1	11200	45050	7
SCB10-10000/35					1	12800	51200	
SCB10-12500/35					0.9	16150	55300	
SCB10-16000/35					0.8	19560	59800	

✳ Note: The data in the table is subject to change without prior notice, and the product is subject to delivery.

PRODUCTS

H LEVEL FOR INSULATION ENERGY SAVING AND ENVIRONMENTAL PROTECTION DRY DISTRIBUTION TRANSFORMER

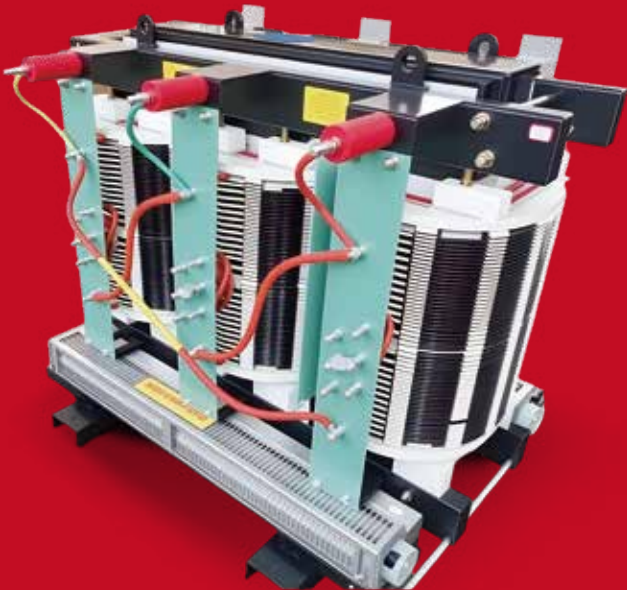
✱ SG(B)10-100-4000/10

The insulation class is H(189℃) and large insulation design allowance.

Design of SG(B)10 Series for dry type transformer is H level thermal insulation class and the main insulating material is C-class American DuPont NOMEX paper (heat accessible to 220℃). The transformer in use will not aid combustion, flame retardant, explode and release harmful gas.

The transformer core uses high-permeability and high-quality cold-rolled silicon steel sheets with a special design. The operating noise is far lower than national standards. It can be recycled after the life without no pollution.

Transformers insulated by the dense paper products of NOMEX work satisfactorily in the wettest environments. When the coil is processed as a whole, the sealing level of the wire and the mechanical degree of the coil are strengthened again by multiple vacuum pressure dipping varnishes and at the same time the transformer's resistance to mold and moisture is improved.



Features

- H-class insulation system

1
- High material safety

2
- Eco-friendly and low-noise design

3
- Strong moisture resistance

4
- Long service life

5
- Low manufacturing cost

6

Standards

- IEEE C57.12.01
- IEC 60076-11/16
- UL 5085-1
- IEEE C57.12.91
- IEC 50588-1

Regular Service Condition

- Altitude: ≤1000m Indoors
- Maximum Ambient Temperature +40℃
- Maximum daily mean temperature +30℃
- **Maximum annual mean temperature +20℃**
- Minimum air temperature -5℃

Transformers that can be operated under the special conditions according to users' requirements.

Symbols and Meanings

T-Three Phases

G-Dry Type(Immersion type)

(B)-Low pressure foil winding

- ▶ Performance Level Code (Design Models)
- ▶ Rated Capacity(KVA)
- ▶ High voltage coil voltage class (KV)

180℃

H-class insulation can withstand 180℃, offering excellent heat resistance, high strength, good cooling, strong overload and thermal shock resistance, long lifespan, and durability without cracking.

15%

Thanks to its high temperature tolerance, transformer size and weight can be reduced. Compared to Series 10, Series 9 transformers have 15% lower no-load loss, significantly lowering operating costs.

Technical Parameters

SG(B)10 H LEVEL FOR INSULATION ENERGY SAVING AND ENVIRONMENTAL PROTECTION DRY DISTRIBUTION TRANSFORMER

Rated capacity (KVA)	Voltage Combination			Connection Symbol	No-load Loss (KW)	On-Load Loss (120℃) W	On-Load Loss (75℃) W	Short Circuit Impedance (%)	No-load Current (%)	Voltage Level (dB)
	High voltage (KV)	Tapping %	Low voltage (KV)							
100	6	±5	0.4	Yyn0 Or Dyn11	400	1880	1535	4.0	2.0	40
125					480	2200	1795		1.8	42
160					540	2550	2080		1.8	42
200					620	3100	2530		1.6	42
250					720	3600	2935		1.6	43
315					880	4600	3750		1.4	45
400					970	5400	4405		1.4	45
500					1160	6600	5380		1.4	45
630					1340	7900	6440	6.0	1.3	45
630					1290	7900	6440		1.3	45
800					1520	9500	7750		1.3	46
1000					1760	11400	9295		1.1	46
1250					2080	12500	10195		1.1	47
1600					2440	13900	11335		1.1	48
2000					3320	17500	14270		1.0	48
2500					4000	20300	16555		1.0	49

✱ Note: The data in the table is subject to change without prior notice, and the product is subject to delivery.

PRODUCTS

WIND TRANSFORMER

Wind power generation combined transformer is the booster transformer body, switch equipment, fuse, tap switch and the corresponding auxiliary equipment for the combination of the transformer, high voltage switch, fuse into the tank, the overall size is small. The structure is similar to the box transformer introduced from the United States in the1990s,which was known in the industry as the wind turbine megiuar transformer. According to the product structure and component configuration can be divided into two types, one is the fully insulated sub-box type products, another is the high voltage with porcelain sleeve outlet box type products.

Model Code

- ▶ Z-Combined Type
- ▶ G- Sharing Box F-Divided Box
- ▶ Design Code
- ▶ Wiring schemes: Z-Terminal H-Ring Network
- ▶ Wind power generation
- ▶ High side voltage rating (KV)
- ▶ Low side voltage rating (KV)
- ▶ Rated capacity of Transformer (KVA)

Standards

- IEEE C57.12.00
- IEEE C57.12.10
- IEEE C57.12.34
- IEC 60076-1/2
- IEC 50588
- IEC 62271-202



Features

Convenient wiring

1

Low cost & flexible circuits

2

Excellent weather resistance

3

Good heat dissipation

4

Structural features

The side outlet of the fully insulated box-type combination transformer 12kV- 40.5kV adopts the prefabricated joint of fully insulated cable and the touchable plug type arrester. And the touchable plug type arrester, the whole product has no exposed high-voltage charged body and the protection level is very good, safe and reliable. Fully insulated box type combination transformer, the transformer and high voltage components are placed in two independent boxes. t not only solves the problem of oil pollution to the transformer, but also realizes that the high voltage component and the transformer can be repaired separately.

12 KV product adopts plug fuse and backup protection fuse to protect.40.5KV product adopts insert dry fuse protection.

No leakage. Each box after 50kPa/12 hours of sealing test to ensure that the oil tank seal without leakage.

PRODUCTS

PHOTOVOLTAIC COMBINED TRANSFORMER

Photovoltaic power generation, as an important component of energy production, has witnessed rapid and robust development both domestically and internationally. Driven by the global push for clean and sustainable energy, PV technology continues to evolve, with expanding applications in residential, commercial, and utility-scale sectors.



Model Code

- ▶ Combined transformers
- ▶ G- Sharing Box F-Divided Box
- ▶ Three phase
- ▶ Performance level code
- ▶ Performance level code
- ▶ Terminal Type
- ▶ Photovoltaic power generation
- ▶ Rated capacity(KVA)
- ▶ Transformer Voltage Class(KV)

Regular Service Condition

- Altitude: ≤ 3000m
- The ambient temperature range is -40°C~+45°C
- Outdoor wind speeds do not exceed 30m/s
- Relative humidity: daily average not more than 95% and monthly average not more than 90%.
- The waveform of the power supply voltage is approximately sine wave and the three-phase voltage is approximately symmetrical.
- Installation site:If beyond the above normal usage of the environmental conditions, the users can negotiate with us to solve.

Main technical parameters

- Rated voltage class: below 35KV and 10 KV
- Frequency: 50Hz
- Transformer insulation grade A insulation, winding temperature rise not more than 65K and oil top temperature rise not more than 60K.
- Enclosure protection class: Fuel Tank IP 68 and high and low pressure chamber IP 45.

PRODUCTS

COMPLETE SETS OF EQUIPMENT OF HIGH AND LOW VOLTAGE

Complete sets of equipment of high voltage including 6-35KV series of complete sets of equipment mainly have KYN 28 series,KYN61 series,XGN17-40.5 fixed metal closed switch cabinet, KYN10-40.5 AC metal closed switch cabinet ,GBC-40.5 metal closed car high-voltage switch cabinet,JYN-40.5 movable AC metal closed switch cabinet and other products.

Complete sets of equipment of high voltage mainly use in indoor distribution and have GGD fixed cupboard,PZ30(distribution box,low tension switch,MNS drawer,GCK drawer,GCS drawer, electric control and non-TEU.



PRODUCTS

OTHER PRODUCTS



Corrugated tank

A corrugated tank is often used as the outer casing of transformers. Its walls have a wavy, corrugated design, which increases the surface area for better heat dissipation. The corrugations also provide flexibility to accommodate the expansion and contraction of transformer oil due to temperature changes, helping to reduce internal pressure.

Enameled copper (aluminum) rectangle wire

Enameled copper (aluminum) rectangle wire consists of a copper or aluminum conductor shaped into a rectangular cross-section and coated with an insulating enamel layer. It is widely used in transformers, motors, and reactors, offering advantages such as compact coil winding, better space utilization, excellent electrical properties, and improved heat dissipation.



Triangular core

A triangular core refers to a magnetic core structure with a triangular cross-section, used in electrical devices like transformers or reactors. This design helps reduce core losses, optimize magnetic flux distribution, and can decrease the size and weight of the equipment. It's often used for compact or specialized applications.

