



PRODUCT CATALOG 2025

POWER TRANSFORMERS

Reliable Energy Solutions for Global Markets

MST

里程碑

Milestone (Xiong'an) Electrical Technology Co., Ltd.

www.milestoneelectric.com



ABOUT US

Milestone (Xiong'an) Electrical Technology Co., Ltd. is a professional power equipment integrator headquartered in the Xiong'an New Area, Hebei Province, China. We specialize in the design, supply, and project management of distribution and power transformers, compact substations, and smart energy solutions for global markets.

Backed by ISO 9001-certified manufacturing partners with over 40 years of production experience, Milestone delivers transformer solutions from 10kV distribution class up to 220kV transmission class, compliant with IEC 60076, GB/T and customer-specified standards.

Our products have been exported to more than 30 countries across Southeast Asia, the Middle East, Africa, South America, and Europe, serving power utilities, industrial parks, renewable energy projects, and infrastructure developers.

10+

Years
Experience

30+

Countries
Served

500+

Projects
Delivered

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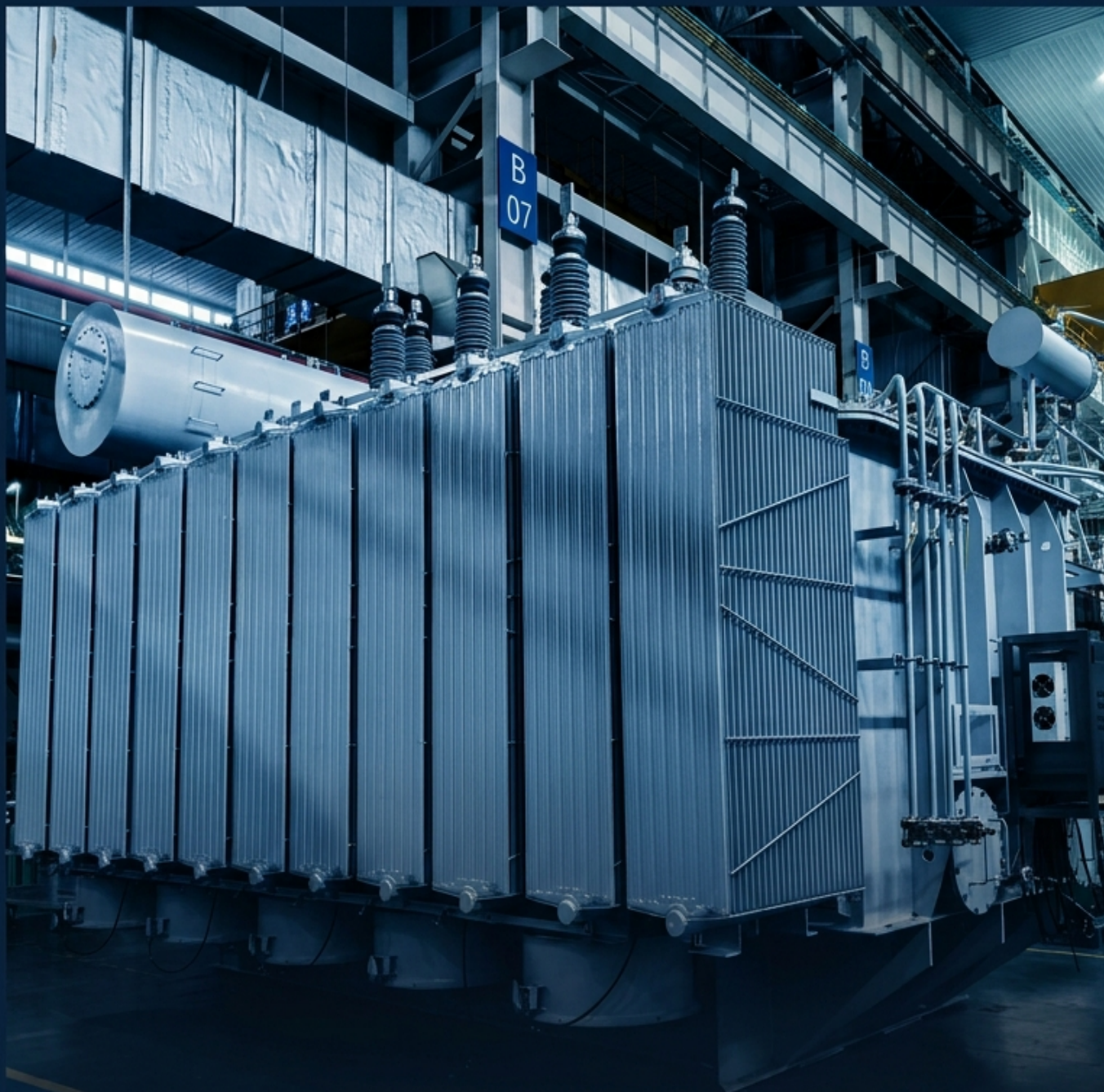


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01 OIL-IMMERSED POWER TRANSFORMERS

Engineered for reliability across distribution and transmission networks, our oil-immersed transformers serve voltage classes from 10kV to 220kV with IEC 60076 compliance.

10kV – 220kV

1,000 – 240,000 kVA

KEY FEATURES

- **High Efficiency Core**
CRGO silicon steel, no-load loss $\leq$ IEC Tier 1
- **ONAN / ONAF Cooling**
Flexible cooling modes for varied loads
- **Off-circuit Tap Changer**
 $\pm 2 \times 2.5\%$ voltage regulation standard
- **IEC 60076 Compliant**
Full international standard certification
- **Corrosion-resistant Tank**
Hot-dip galvanized or epoxy painted
- **Sealed or Conservator Type**
Hermetically sealed option available

TYPICAL APPLICATIONS

Power Utilities

Industrial Parks

Mining Operations

Renewable Energy

Custom solutions available for offshore platforms, high-altitude, and extreme climate environments.

STANDARDS & CERTIFICATIONS

- IEC 60076-1 to 60076-11
- GB/T 6451 (China National Standard)
- AS/NZS 60076 (Australia/NZ)
- ANSI/IEEE C57 (upon request)
- ISO 9001:2015 Quality Management

ISO 9001



IEC 60076

CE MARK

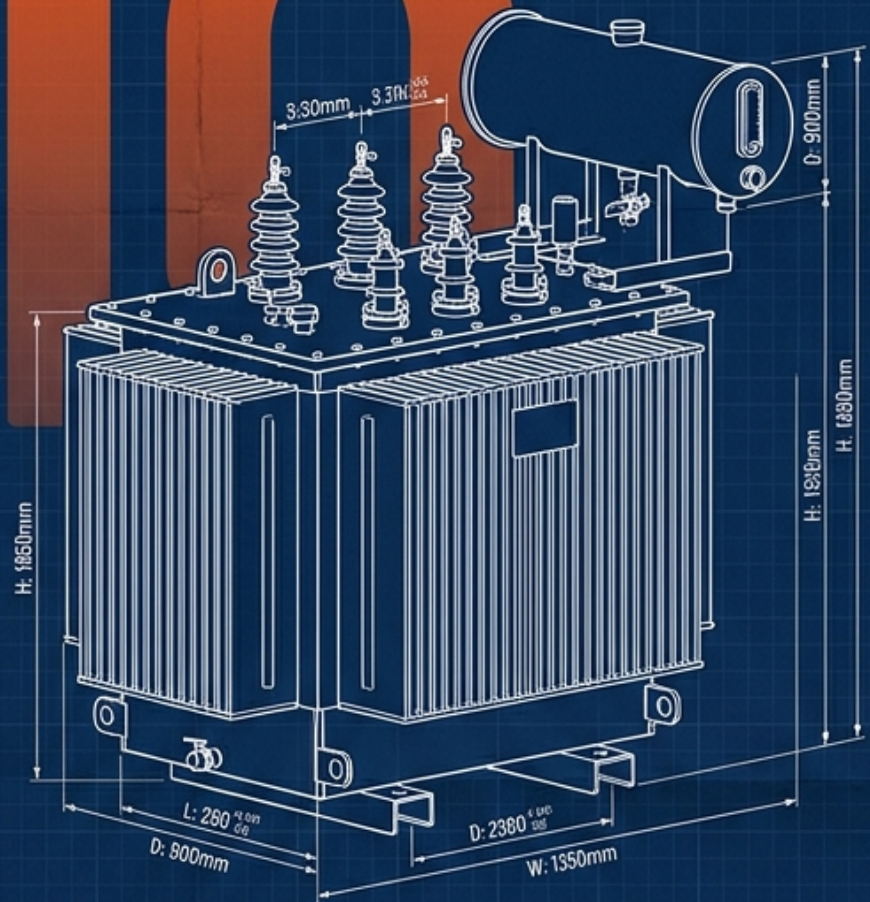
DISTRIBUTION CLASS

10

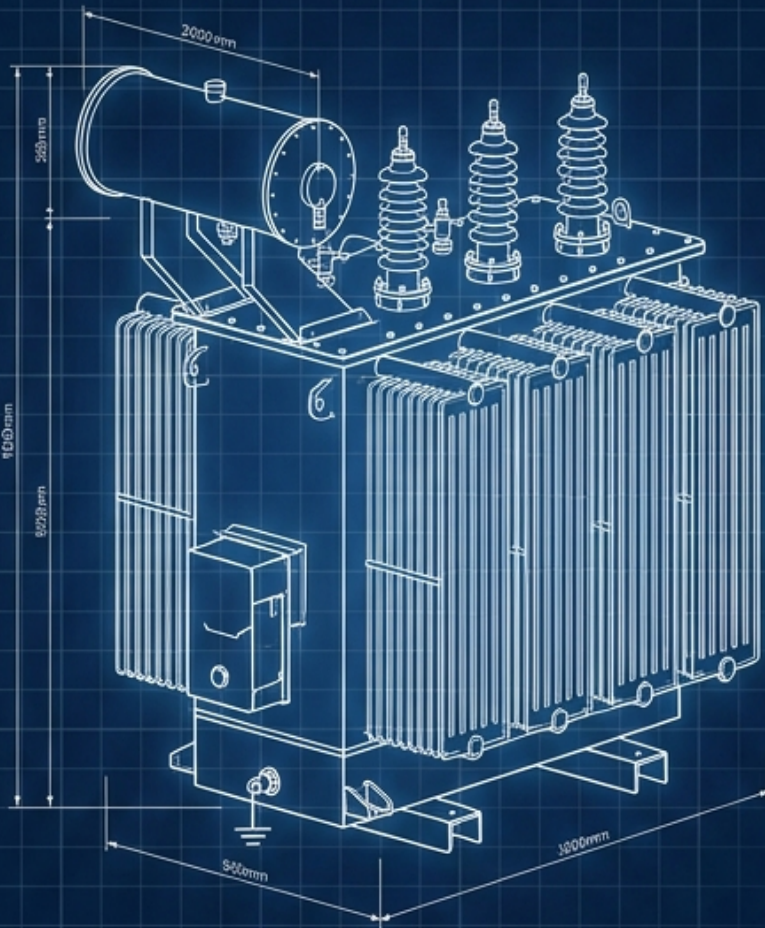
kV OIL-IMMERSED

S11 / S13 DISTRIBUTION TRANSFORMER COMPARISON

10千伏油浸式配电变压器 S11 vs S13 能效对比 50-2500 kVA



Capacity (kVA)	HV (kV)	LV (kV)	Vector	S11 P ₀ /P _k (kW)	S13 P ₀ /P _k (kW)	I ₀ (%)	U _k (%)	Weight (kg)
50	10	0.4	Dyn11	0.060 / 0.960	0.053 / 0.870	2.0	4.0	275
100	10	0.4	Dyn11	0.100 / 1.500	0.087 / 1.500	1.8	4.0	350
160	10	0.4	Dyn11	0.140 / 2.310	0.125 / 2.100	1.6	4.0	450
200	10	0.4	Dyn11	0.165 / 2.750	0.147 / 2.500	1.5	4.0	495
250	10	0.4	Dyn11	0.197 / 3.250	0.175 / 2.950	1.4	4.0	520
315	10	0.4	Dyn11	0.235 / 3.900	0.208 / 3.550	1.4	4.0	590
400	10	0.4	Dyn11	0.280 / 4.730	0.250 / 4.300	1.3	4.0	680
500	10	0.4	Dyn11	0.335 / 5.610	0.300 / 5.100	1.2	4.0	760
630	10	0.4	Dyn11	0.400 / 6.820	0.356 / 6.200	1.1	4.0	830
800	10	0.4	Dyn11	0.480 / 8.250	0.425 / 7.500	1.0	4.5	880
1000	10	0.4	Dyn11	0.560 / 9.900	0.500 / 9.000	1.0	4.5	1005
1250	10	0.4	Dyn11	0.673 / 11.55	0.600 / 10.50	0.9	4.5	1160
1600	10	0.4	Dyn11	0.800 / 14.30	0.715 / 13.00	0.8	4.5	1250
2000	10	0.4	Dyn11	0.950 / 17.60	0.850 / 16.00	0.7	6.0	1400
2500	10	0.4	Dyn11	1.120 / 20.90	1.000 / 19.00	0.6	6.0	1550



35

kV OIL-IMMERSED

**S9 / S11 DISTRIBUTION
TRANSFORMER COMPARISON
/ 35千伏配电变压器 能效对比**



Hermetically Sealed

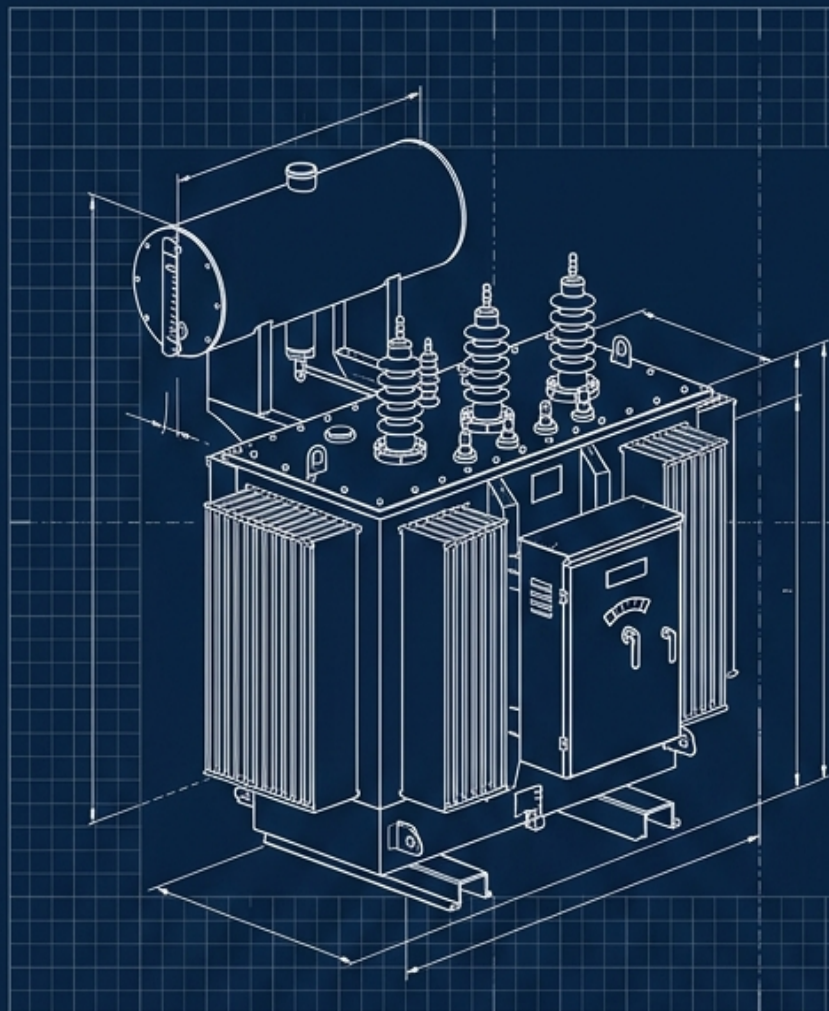


Low Loss



Long Life

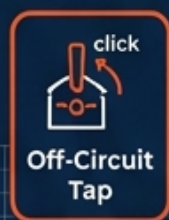
Capacity (kVA)	HV (kV)	LV (kV)	Vector	S9 P ₀ /P _k (kW)	S11 P ₀ /P _k (kW)	I ₀ (%)	U _k (%)	Weight (kg)
50	35	0.4	Yyn0	0.21 / 1.21	0.17 / 1.15	2.0	6.5	275
100	35	0.4	Yyn0	0.29 / 2.02	0.23 / 1.92	1.8	6.5	350
125	35	0.4	Yyn0	0.34 / 2.38	0.27 / 2.26	1.7	6.5	430
160	35	0.4	Yyn0	0.36 / 2.83	0.29 / 2.69	1.6	6.5	450
200	35	0.4	Dyn11	0.43 / 3.33	0.34 / 3.16	1.5	6.5	495
250	35	0.4	Dyn11	0.51 / 3.96	0.41 / 3.76	1.4	6.5	520
315	35	0.4	Dyn11	0.61 / 4.77	0.49 / 4.53	1.4	6.5	590
400	35	0.4	Dyn11	0.73 / 5.76	0.58 / 5.47	1.3	6.5	680
500	35	0.4	Dyn11	0.86 / 6.93	0.69 / 6.58	1.2	6.5	760
630	35	0.4	Dyn11	1.04 / 8.28	0.83 / 7.87	1.1	6.5	830
800	35	0.4	Dyn11	1.23 / 9.90	0.98 / 9.41	1.0	6.5	880
1000	35	0.4	Dyn11	1.44 / 12.15	1.15 / 11.54	1.0	6.5	1005
1250	35	0.4	Dyn11	1.76 / 14.67	1.41 / 13.94	0.9	6.5	1160
1600	35	0.4	Dyn11	2.12 / 17.55	1.70 / 16.67	0.8	6.5	1250



35

kV POWER CLASS

S11 SERIES MEDIUM POWER TRANSFORMER /
35千伏电力变压器 S11节能系列



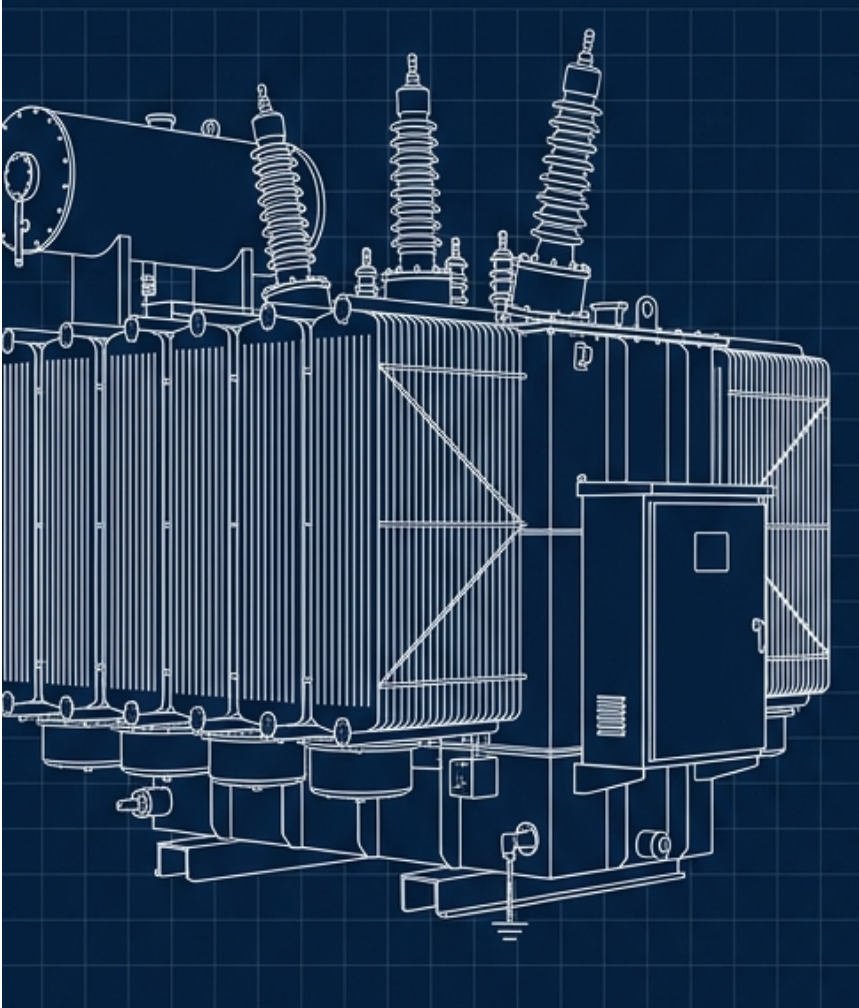
S11

YNd11

7.0~8.0%

3150~31500

Capacity (kVA)	HV (kV)	LV (kV)	Vector	P ₀ (kW)	P _k (kW)	I ₀ (%)	U _k (%)
3150	35±2×2.5%	6.3~10.5	Yd11	3.80	24.30	0.56	7.0
4000	35±2×2.5%	6.3~10.5	Yd11	4.52	28.80	0.56	7.0
5000	35±2×2.5%	6.3~10.5	Yd11	5.40	33.03	0.48	7.0
6300	35±2×2.5%	6.3~10.5	Yd11	6.56	36.90	0.48	7.0
8000	35±2×2.5%	6.3~10.5	YNd11	9.00	40.50	0.42	7.5
10000	35±2×2.5%	6.3~10.5	YNd11	10.88	47.70	0.42	7.5
12500	35±2×2.5%	6.3~10.5	YNd11	12.60	56.70	0.40	7.5
16000	35±2×2.5%	6.3~10.5	YNd11	15.20	69.30	0.40	7.5
20000	35±2×2.5%	6.3~10.5	YNd11	18.00	83.70	0.40	8.0
25000	35±2×2.5%	6.3~10.5	YNd11	21.28	99.00	0.32	8.0
31500	35±2×2.5%	6.3~10.5	YNd11	25.28	118.80	0.32	8.0



110

kV TRANSMISSION

**S11 SERIES HIGH-VOLTAGE POWER
TRANSFORMER / 110千伏电力变压器 S11节能系列**



**Conservator
Type**



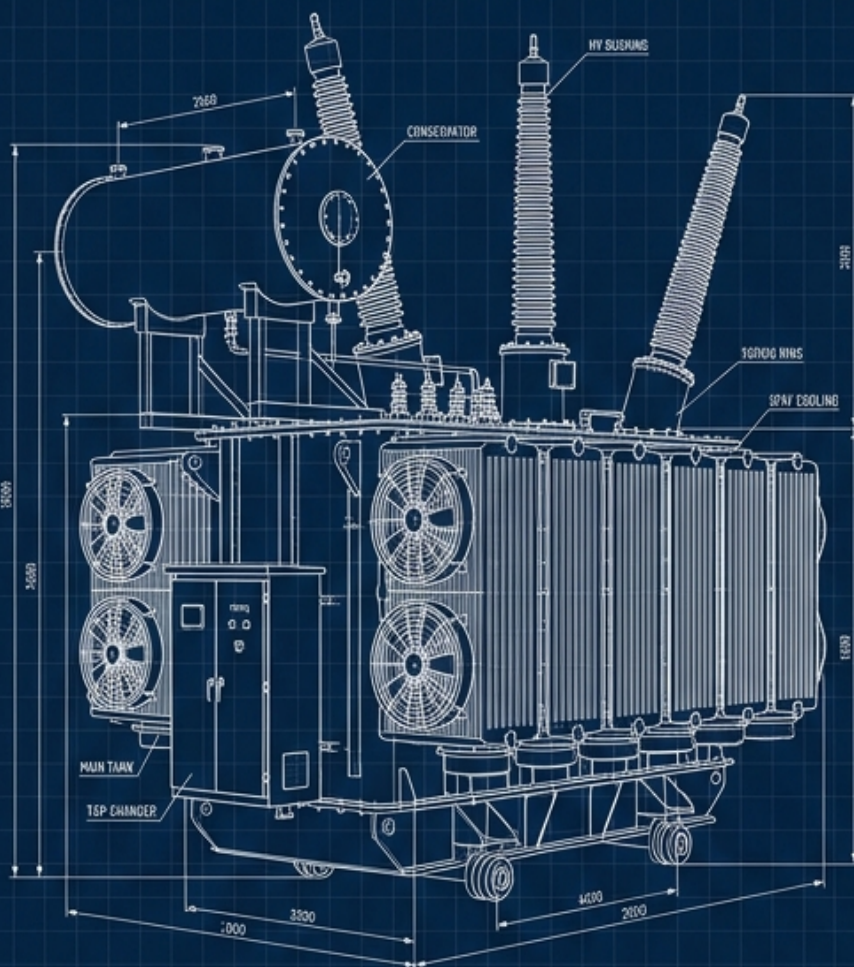
**ONAN/ONAF
Cooling**



**Substation
Grade**

ORANGE DIVIDER (1%)

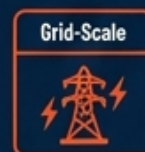
Capacity (kVA)	HV (kV)	LV (kV)	Vector	P ₀ (kW)	P _k (kW)	I ₀ (%)	U _k (%)
6300	110±2×2.5%	6.3~10.5	YNd11	9.3	36	0.60	10.5
8000	110±2×2.5%	6.3~10.5	YNd11	11.2	45	0.60	10.5
10000	110±2×2.5%	6.3~10.5	YNd11	13.2	53	0.55	10.5
12500	110±2×2.5%	6.3~10.5	YNd11	15.6	63	0.55	10.5
16000	110±2×2.5%	6.3~10.5	YNd11	18.8	77	0.50	10.5
20000	110±2×2.5%	6.3~10.5	YNd11	22.0	96	0.50	10.5
25000	110±2×2.5%	6.3~10.5	YNd11	26.0	115	0.45	10.5
31500	110±2×2.5%	6.3~10.5	YNd11	30.8	133	0.45	10.5
40000	110±2×2.5%	6.6~13.8	YNd11	36.8	156	0.40	10.5
50000	110±2×2.5%	6.6~13.8	YNd11	44.0	194	0.40	10.5
63000	110±2×2.5%	10.5~13.8	YNd11	52.0	234	0.35	10.5
75000	110±2×2.5%	10.5~13.8	YNd11	59.0	278	0.35	10.5
90000	110±2×2.5%	10.5~13.8	YNd11	68.0	320	0.30	10.5
120000	110±2×2.5%	13.8~15.75	YNd11	84.8	397	0.30	17
150000	110±2×2.5%	13.8~15.75	YNd11	100.2	472	0.30	17
180000	110±2×2.5%	15.75	YNd11	112.5	532	0.25	17



220

kV EHV CLASS

S11 SERIES EXTRA-HIGH VOLTAGE POWER TRANSFORMER / 220千伏电力变压器 S11节能系列



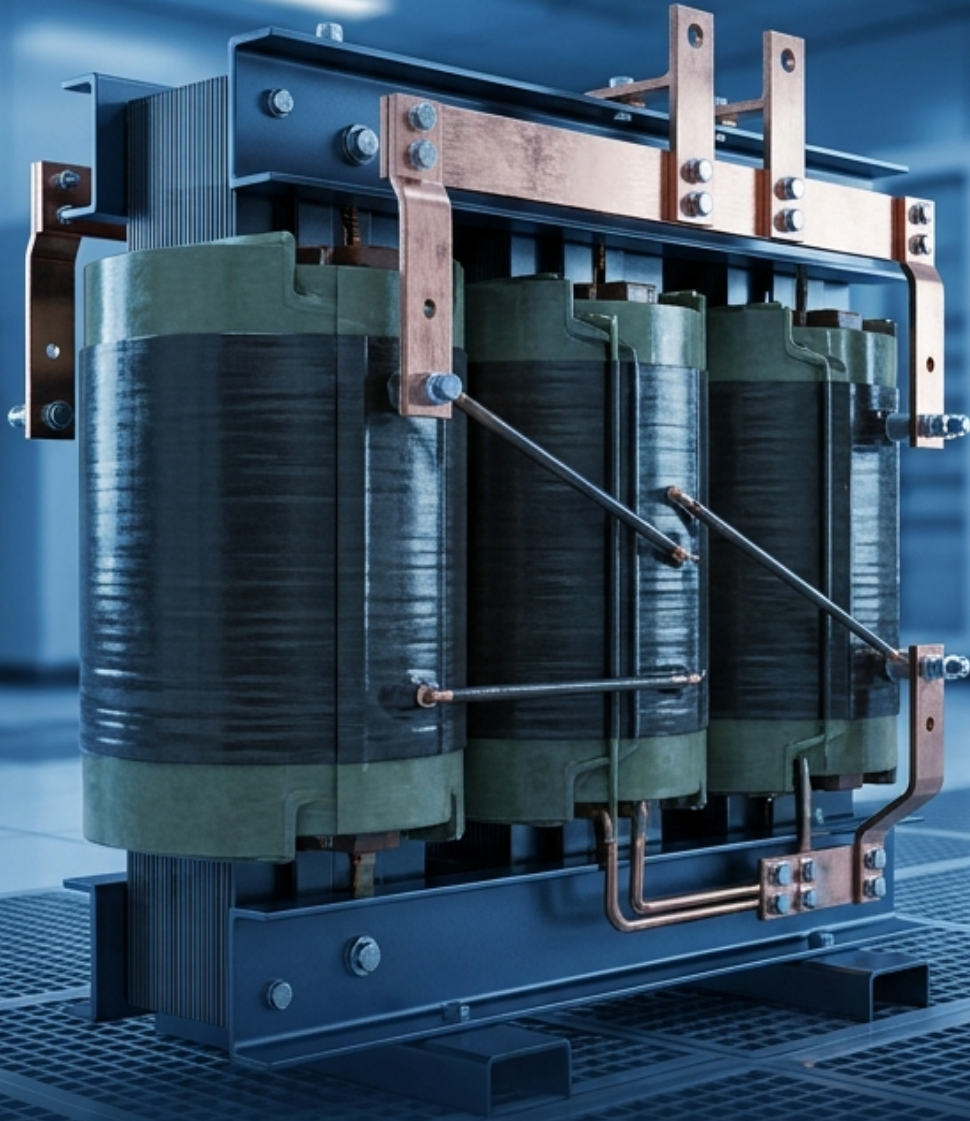
S11

YNd11

12~14%

11n to 360

Capacity (kVA)	HV (kV)	LV (kV)	Vector	P ₀ (kW)	P _k (kW)	I ₀ (%)	U _k (%)
31500	220±2×2.5%	6.3	YNd11	35	135	0.70	12~14
40000	220±2×2.5%	6.6	YNd11	41	157	0.70	12~14
50000	220±2×2.5%	10.5	YNd11	49	189	0.65	12~14
63000	220±2×2.5%	11	YNd11	58	220	0.65	12~14
75000	220±2×2.5%	10.5	YNd11	67	250	0.60	12~14
90000	220±2×2.5%	11	YNd11	77	288	0.55	12~14
120000	220±2×2.5%	13.8	YNd11	96	345	0.55	12~14
150000	220±2×2.5%	11~15.75	YNd11	112	405	0.50	12~14
180000	220±2×2.5%	15.75	YNd11	128	459	0.46	12~14
240000	220±2×2.5%	15.75~20	YNd11	160	567	0.42	12~14
300000	220±2×2.5%	15.75~18	YNd11	189	675	0.38	12~14
360000	220±2×2.5%	18~20	YNd11	217	774	0.38	12~14



02 DRY-TYPE TRANSFORMERS

Flame-retardant cast-resin transformers for critical indoor applications. IEC 60076-11 compliant, Class F/H insulation, maintenance-free operation.

10kV – 35kV

100 – 20,000 kVA

Class F/H Insulation

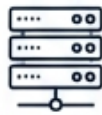
KEY FEATURES

- Flame Retardant**
 Self-extinguishing epoxy resin, F1 class per IEC 60076-11
- Low Noise Operation**
 Core vibration damping, ≤65dB at rated load
- Wide IP Range**
 IP20 standard, IP54 optional with enclosure
- Zero Maintenance**
 Sealed cast coils, no oil, no gas monitoring required
- High Overload Capacity**
 120% continuous overload for up to 2 hours
- Compact Footprint**
 30% smaller footprint vs oil-type equivalent rating

TYPICAL APPLICATIONS



HOSPITAL



DATA CENTER



HIGH-RISE BUILDING



METRO/RAIL



WIND FARM



OFFSHORE PLATFORM



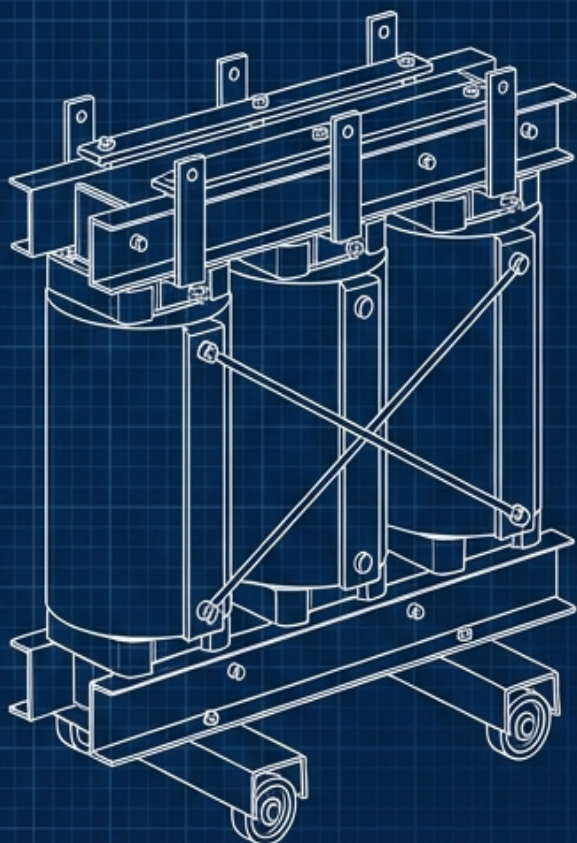
CHEMICAL PLANT



AIRPORT

INSULATION CLASS OVERVIEW

Class	Max Temp Rise	Overload	Typical Application
F	100K	120% / 2h	Standard indoor
H	125K	150% / 1h	High temp environments
C	150K	Custom	Extreme industrial



10

kV DRY-TYPE

F-CLASS CAST RESIN TRANSFORMER (SCB10 SERIES) / 10千伏F级环氧树脂浇注干式变压器



Fire Safe

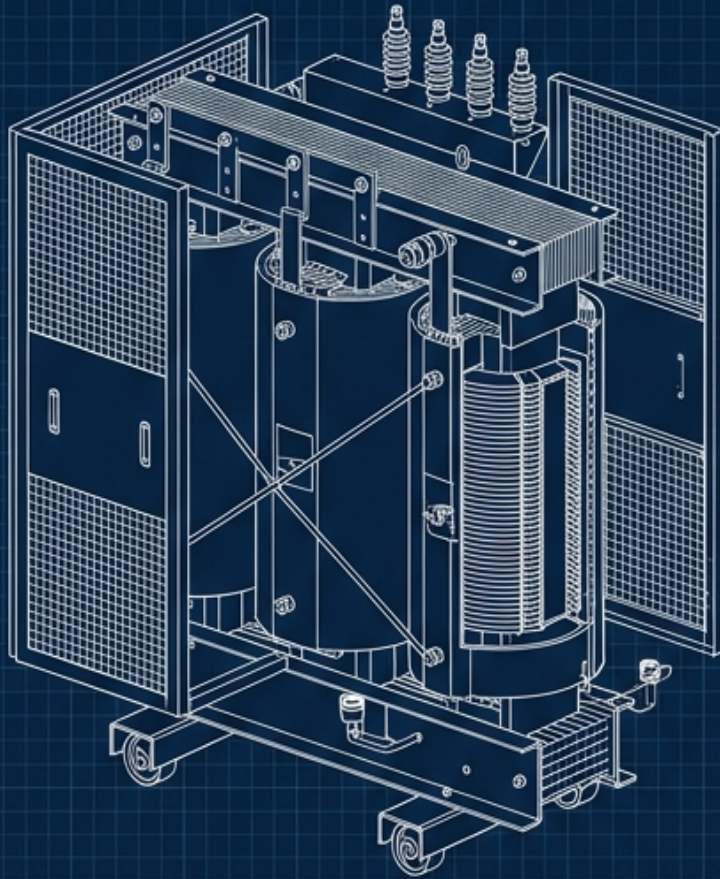


Low
Maintenance



Eco Friendly

Capacity (kVA)	HV (kV)	LV (kV)	Vector	Insulation	P ₀ (W)	P _k (W) 145°C	I ₀ (%)	U _k (%)
30	10	0.4	Dyn11	F	190	710	2.0	4
50	10	0.4	Dyn11	F	270	1000	1.8	4
80	10	0.4	Dyn11	F	370	1380	1.6	4
100	10	0.4	Dyn11	F	400	1570	1.6	4
125	10	0.4	Dyn11	F	470	1850	1.2	4
160	10	0.4	Dyn11	F	550	2130	1.2	4
200	10	0.4	Dyn11	F	630	2530	1.0	4
250	10	0.4	Dyn11	F	720	2760	1.0	4
315	10	0.4	Dyn11	F	880	3470	1.0	4
400	10	0.4	Dyn11	F	980	3990	0.9	4
500	10	0.4	Dyn11	F	1160	4880	0.9	4/6
630	10	0.4	Dyn11	F	1350	5880	0.8	4/6
800	10	0.4	Dyn11	F	1520	6960	0.8	6
1000	10	0.4	Dyn11	F	1770	8130	0.8	6
1250	10	0.4	Dyn11	F	2090	9690	0.7	6
1600	10	0.4	Dyn11	F	2450	11730	0.6	6
2000	10	0.4	Dyn11	F	3050	14450	0.5	6
2500	10	0.4	Dyn11	F	3600	17000	0.5	6



35

kV DRY-TYPE

F-CLASS CAST RESIN TRANSFORMER
(SCB10) / 35千伏F级环氧树脂浇注干式变压器



Fire Safe



Indoor Install



Renewable Ready

F CLASS

Dyn11

5.5 / 6%

30~2500

Capacity (kVA)	HV (kV)	LV (kV)	Vector	Insulation	P ₀ (W)	P _k (W) 120°C	I ₀ (%)	U _k (%)
30	35	0.4	Dyn11	F	360	1140	2.8	5.5
50	35	0.4	Dyn11	F	450	1425	2.6	5.5
80	35	0.4	Dyn11	F	540	1805	2.2	5.5
100	35	0.4	Dyn11	F	630	2090	2.0	5.5
125	35	0.4	Dyn11	F	700	2420	1.8	5.5
160	35	0.4	Dyn11	F	790	2810	1.8	5.5
200	35	0.4	Dyn11	F	880	3325	1.6	5.5
250	35	0.4	Dyn11	F	990	3800	1.6	5.5
315	35	0.4	Dyn11	F	1175	4510	1.4	5.5
400	35	0.4	Dyn11	F	1375	5415	1.4	5.5
500	35	0.4	Dyn11	F	1620	6650	1.4	6.0
630	35	0.4	Dyn11	F	1860	7695	1.2	6.0
800	35	0.4	Dyn11	F	2160	9120	1.2	6.0
1000	35	0.4	Dyn11	F	2430	10450	1.0	6.0
1250	35	0.4	Dyn11	F	2835	12730	1.0	6.0
1600	35	0.4	Dyn11	F	3240	15485	0.8	6.0
2000	35	0.4	Dyn11	F	3825	18240	0.7	6.0
2500	35	0.4	Dyn11	F	4455	21850	0.7	6.0

COMPACT SUBSTATION

Prefabricated Box-Type Substation · YB/ZB Series

10kV – 35kV input

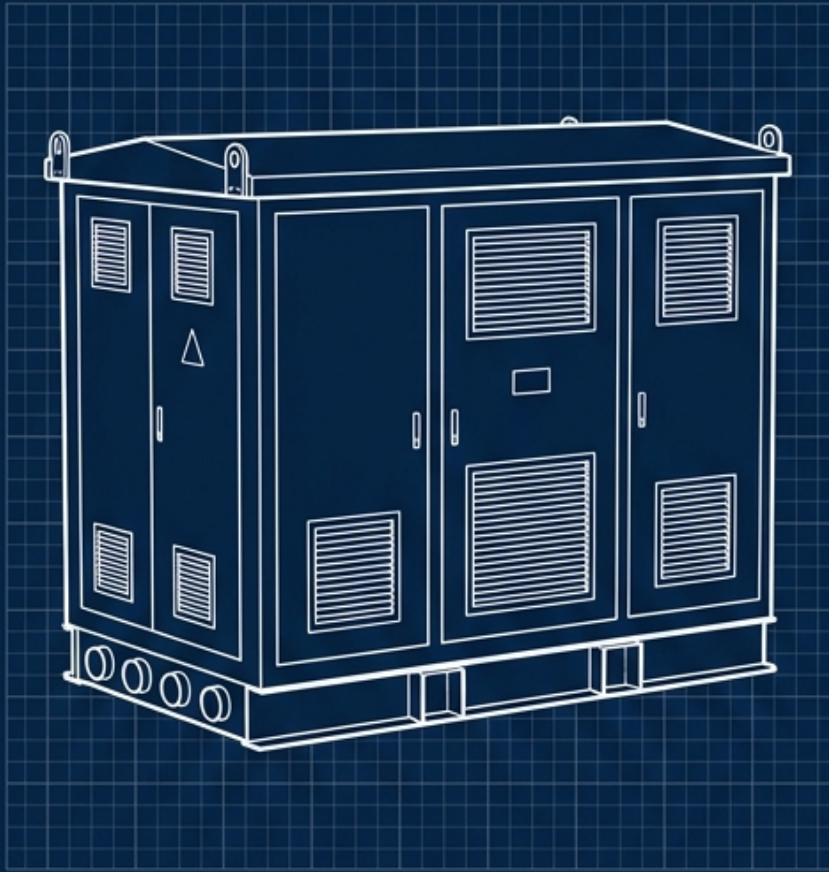
Up to 2500 kVA

IP43 / IP54



KEY SPECIFICATIONS

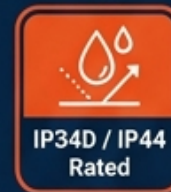
- Input Voltage: 10kV / 35kV
- Output Voltage: 0.4kV
- Transformer Capacity: 315 – 2500 kVA
- HV Switchgear: SF6 or Vacuum type
- Protection Class: IP43 / IP54
- Cooling: ONAN (natural air)
- Standards: IEC 62271, GB/T 17467
- Enclosure: Hot-dip galvanized steel



YBW

PACKAGED SUBSTATION

EUROPEAN-TYPE PRE-FAB COMPACT SUBSTATION / 预装式欧式箱式变电站



YBW

315~2500

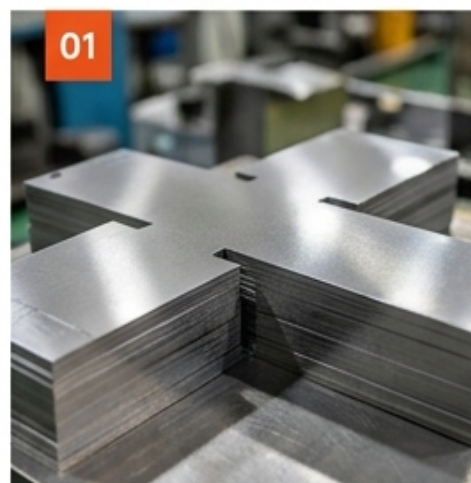
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IP34D~IP44

Transformer (kVA)	HV Switch	LV Switch	IP Rating	Typical Application
315	Load Switch + Fuse	Frame Breaker	IP34D	Residential / Small Workshop
500	Load Switch + Fuse	Frame Breaker	IP34D	Commercial Building
630	Load Switch + Fuse	Frame Breaker	IP34D	Industrial Park
800	Vacuum Circuit Breaker	Frame Breaker	IP34D	Large Commercial
1000	Vacuum Circuit Breaker	Frame Breaker	IP34D	Factory / Hospital
1250	Vacuum Circuit Breaker	Frame Breaker	IP44	Heavy Industry
1600	Vacuum Circuit Breaker	Frame Breaker	IP44	Data Center
2000	Vacuum Circuit Breaker	Frame Breaker	IP44	Large Industrial
2500	Vacuum Circuit Breaker	Frame Breaker	IP44	Substation Hub

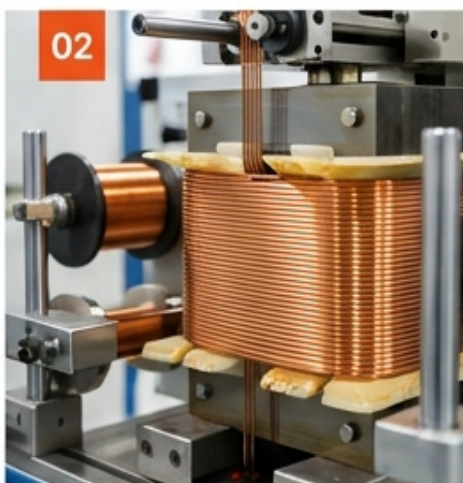
MANUFACTURING EXCELLENCE

From raw silicon steel to fully-tested transformer — six stages of precision



CORE LAMINATION

CRGO steel, eddy loss minimized



COIL WINDING

High-purity copper, CNC precision



VACUUM DRYING

VPI process, 130°C, 12-hour cycle



TANK WELDING

Robotic MIG, 100% leak tested



FINAL ASSEMBLY

Torque-controlled, clean room



FACTORY TESTING

IEC 60076 full routine test suite

✓ Every unit 100% routine tested before shipment

TESTING & CERTIFICATIONS

Independent verification. Internationally recognized.

OUR CERTIFICATIONS



ISO 9001 : 2015

Quality Management System



IEC 60076

International Power Transformer Standard



CE MARKING

European Conformity — EU Market Ready



GB / T 6451

China National Transformer Standard



CNAS Accredited Lab

National Lab Accreditation · Test reports accepted globally



*All test reports available on request.
Third-party witness testing welcomed.*

HIGH-VOLTAGE TEST LABORATORY



[Lightning Impulse 550kV]

[Induced Voltage AC]

[Partial Discharge < 100pC]

*In-house HV lab capacity up to 550kV impulse.
CNAS-accredited third-party testing available.*

GLOBAL FOOTPRINT

Powering infrastructure across 30+ countries



MIDDLE EAST

110kV Grid Expansion

Montserrat SemiBold 10pt

UAE · 3× 63MVA transformers supplied for Abu Dhabi transmission network upgrade. On-time delivery, IEC factory test witnessed by client engineer. Inter Light 7.5pt

63 MVA · 110kV

AFRICA

Industrial Power Supply

with SemiBold 10pt

Nigeria · 15× 10kV/0.4kV distribution transformers for cement plant expansion. Tropical climate coating, IP55 terminal box. Light 7.5pt

1,600 kVA · 10kV

SE ASIA

Renewable Energy Project

SemiBold 10pt

Vietnam · 8× 35kV step-up transformers for 50MW solar farm. Compact design, fast 10-week lead time. Light 7.5pt

5,000 kVA · 35kV

ENGINEERED TO YOUR SPECIFICATION

Every transformer can be tailored to meet your exact project requirements



VOLTAGE CLASS

[10kV] [35kV] [66kV] [110kV]
[220kV] [Custom HV]

Primary and secondary voltage ratios configured to match your grid standard. HV up to 220kV, LV from 0.4kV.



WINDING CONNECTION

[Dyn11] [YNyn0] [YNd11]
[YNyn0d11] [ZNyn11]

Vector group selected per IEC 60076-1 or client single-line diagram. Special configurations on request.



CLIMATE ADAPTATION

Montserrat Bold 12pt #0B1F3B

[-40°C Arctic] [Tropical IP55] [High Altitude]
[Desert +55°C] [Coastal Saline]

Insulation class, cooling method, and enclosure rated for your installation environment. Type tested per IEC.



SPECIAL COATINGS & FINISH

Montserrat Bold 12pt #0B1F3B

[Hot-dip Galvanized] [Epoxy Paint]
[RAL Custom Color] [Stainless Fittings]

Corrosion protection system specified by environment — C3 to C5-M per ISO 12944. Custom RAL colors available.



Share your single-line diagram and load schedule — we'll deliver a complete transformer solution within 5 working days.

REQUEST A QUOTE →

GLOBAL REACH & SERVICE**OUR SERVICE COMMITMENT****PRE-SALES TECHNICAL SUPPORT**

Load calculation, single-line diagram review, optimal transformer selection — free of charge.

**FACTORY ACCEPTANCE TEST**

Client engineers welcome to witness full IEC 60076 routine test at our partner factory.

**LOGISTICS & DOCUMENTATION**

Full export documentation: packing list, COO, test reports, BL coordination. DDP/CIF available.

**COMMISSIONING ASSISTANCE**

On-site commissioning support available. Remote guidance via video call included standard.

**WARRANTY COVERAGE**

24-month warranty from commissioning date. Extended warranty options available.

**24/7 TECHNICAL HOTLINE**

Dedicated WhatsApp/WeChat/Email support channel. Response within 4 hours guaranteed.

24/7**SERVICE SUPPORT**

Round-the-clock technical assistance for emergency situations, commissioning support, and operational guidance.

< 4h

Emergency Response Time

10yr

Spare Parts Availability

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Field Engineers Worldwide

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Contact our engineering team for a technical consultation and competitive quotation.

SALES & TECHNICAL ENQUIRIES

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< 24 Hours

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for standard configurations



Free

Pre-sales engineering
Load study · Spec review · Selection



Worldwide

Export-ready documentation
CIF · DDP · EXW terms

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