

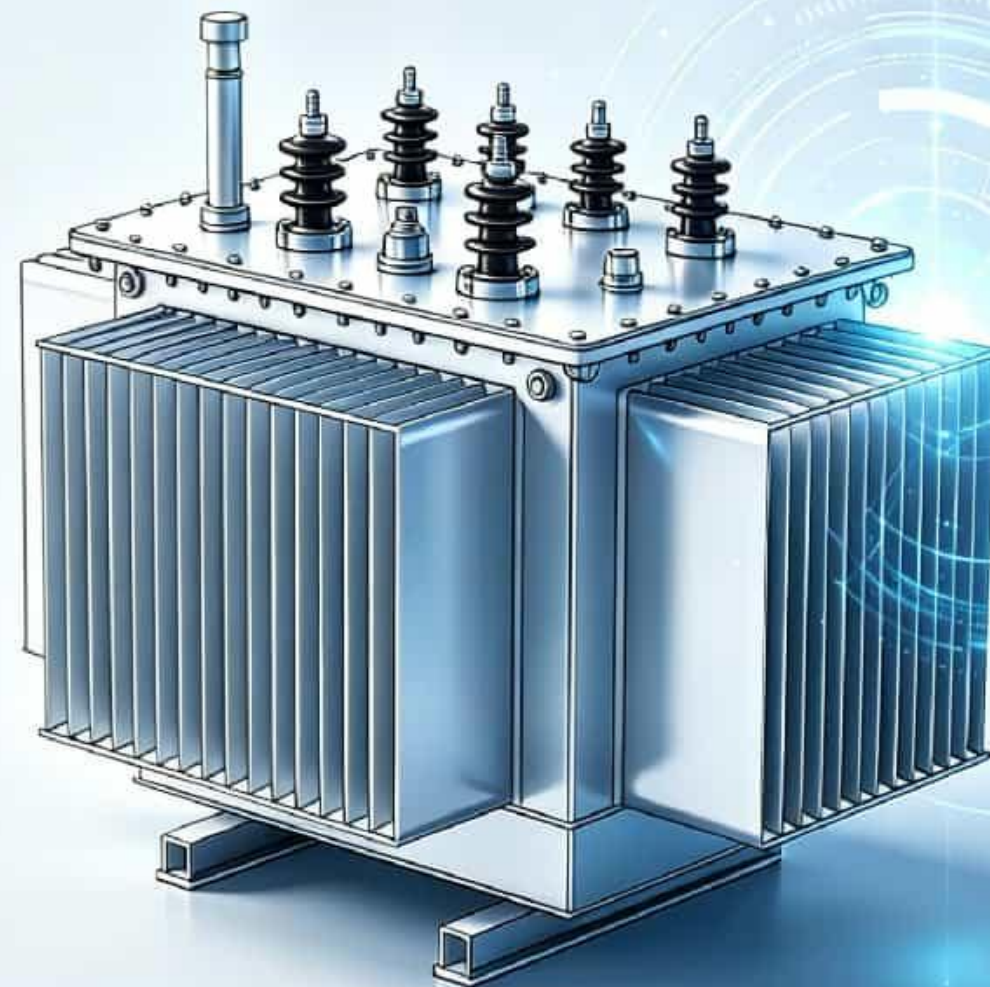


河北安升电力设备有限公司
Hebei Ansheng Electric Power Equipments
Co.,LTD

Cell/Whatsapp:+8615833927003

Email:info@anshpower.com

Address:ChangAn Town, Shijiazhuang City,Hebei Province.



Making power transmission more efficient and reliable.

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Hebei Ansheng Electric Power Equipment Co., Ltd. is located at Shijiazhuang City. Covering an area of 18,000 m², 120 staff, it is a modern technology-oriented enterprise focusing on the R&D and manufacturing of electric power equipments. With the corporate mission of "Making power transmission more efficient and reliable", the company adheres to the philosophy of attaching equal importance to innovation and quality. It is committed to providing customers with efficient, energy-saving and intelligent power solutions, boosting the sustainable development of the power industry. Its core product portfolio includes oil-immersed transformers, dry-type transformers, Amorphous Alloy Transformer and Compact Substation, as well as supporting complete power equipment including high and low voltage switch gear, JP Distribution Cabinet and distribution boxes. The products serve the fields of power grid construction, industrial manufacturing, new energy grid integration, AI computing centers, data centers, and general industrial and commercial users, exported to more than 60 countries worldwide, winning widespread trust from clients at home and abroad.

Company Overview



Commission

Making power transmission more efficient and reliable.



Vision

Insist on technological innovation, Serve global power clients, Strive to be an industry innovation leader.



Since 2008

18000m²

13 R&D Engineers

35 Core Technical Staff



Annual Maximum Output Capacity:

Transformer Core:6000 Tons; Transformers:6000-8000 Sets



Manufacturing Strength

Modern Production Base | Full Process Intelligent Production Line

Standardized • Advanced Production Base

It has standardized industrial workshops, equipped with a full set of advanced production and testing equipment in the industry, such as slitting machines, transverse shearing machines, foil-wire integrated machines, automatic winding machines, coal-oil gas phase vacuum drying equipments and comprehensive experimental platform.

Multi-category • Intelligent Flexible Production Line

Multiple intelligent production lines have been built, including iron core processing, dry-type transformer, oil-immersed transformers, triangular three-dimensional transformers and Compact Substation, realizing full-category, large-scale and flexible manufacturing of core products.



End-to-End Digitalization

Full data traceability
from raw materials to
finished products



Smart Manufacturing

Smart operation for high
quality, efficiency and
consistency guarantee



Strict Quality Control

Modern Laboratory
ensures superior
product performance



Advanced Technique & Craft



Slitting & Cutting to Length Lines

High-precision silicon steel cutting with controlled material utilization.

Vapor Phase Vacuum Drying Equipment

Deep moisture removal to enhance overall insulation performance.



Automatic Winding Machine

CNC-driven winding for consistent uniformity and compactness.



Modern Intelligent Testing Laboratory

Full pre-delivery inspection to guarantee final product quality.



Through the MES system, data collection and analysis are carried out across the entire production ensuring high product precision, low energy and material loss, and strong operational stability

Authoritative Certifications · Proof of Strength

Hebei Ansheng Electric Power Equipment Co., Ltd. delivers exceptional quality through rigorous standards and demonstrates enterprise strength via authoritative certifications, providing reliable power equipment solutions for customers worldwide.

International Standard Management Systems

We implement international management standards and hold QEHS system certifications. Our operations meet global advanced standards, guaranteeing stable, reliable and efficient products and services.

Independent R&D of Core Technologies

Driven by technological innovation, we focus on power equipment and own multiple core invention patents. Independent R&D keeps optimizing product performance.

Authoritative Product Inspection & Certifications

All products go through strict full inspections. With official test reports and model filings, our products fully comply with national standards for reliable quality and safety.



Main Products



Dry-Type Transformer

It features excellent properties including fire resistance, explosion proofing and maintenance-free performance, and is widely applicable to high-rise buildings, commercial centers, data centers and other venues with extremely high safety requirements. Type includes SCB11/12 /13 /14/18 /20 SCZ10/11/13/14/18 etc.



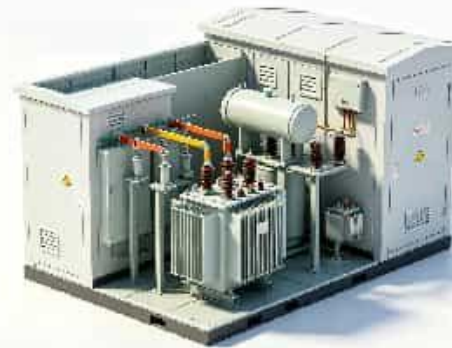
Oil-immersed Transformer

It boasts excellent heat dissipation performance and strong overload capacity, serving as core power equipment for constructing main power grids and ensuring stable operation of large-scale industrial production. Type includes S11/13-M, SH15-M, S20-M, S22-M. SZ11-M, SZ13-M etc.



3D Wound Core Transformer

It achieves breakthrough ultra-low loss and ultra-low noise operation with leading energy efficiency indicators, serving as an outstanding technical model of the new-generation energy-saving power transformers, including S13-M·RL, S20-M·RL, S22-M·RL, SH15-M·RL, SH21-M·RL, SH25-M·RL, SCB11-RL, SGB11-RL



Compact Substation

It integrates transformers and high-voltage switchgear into an integrated intelligent unit, featuring easy installation and small floor space, which is perfectly suitable for urban power distribution networks and industrial park construction. Includes European Type Compact Substation & American Type Pad-mounted Substation.

Main Application Area

Multi-field Power Solution



Power Grid Construction,renovation and upgrading

Reliable power distribution solutions to meet the needs of modern power network development, effectively improve power supply efficiency and ensure stable and safe power operation.



Industrial Manufacturing & Commercial Center

To provide reliable and stable power supply systems for large-scale factories and commercial centers, ensuring continuous and stable operation of various high-load production equipment.



Data Center

Supply high-overload and low-loss special transformers for supercomputing centers and data centers, helping build eco-friendly and high-efficiency data centers.



New Energy Connection

Special step-up transformers for new energy grid connection are supplied to wind farms and PV power stations, realizing efficient electric energy conversion and enabling safe, reliable grid access of clean energy.

Core Products 01: Oil-immersed Transformer

The S Series fully sealed oil-immersed transformer features low loss, low noise, high efficiency and remarkable energy-saving performance.



Low Loss, Low Noise

Adopt high quality cold roll steel silicon sheet, with low no-load loss and quiet running.



Fully Sealed, Free Maintenance

The corrugated tank isolates the transformer from air and moisture, preventing oil aging and enabling maintenance-free operation throughout its entire service life.



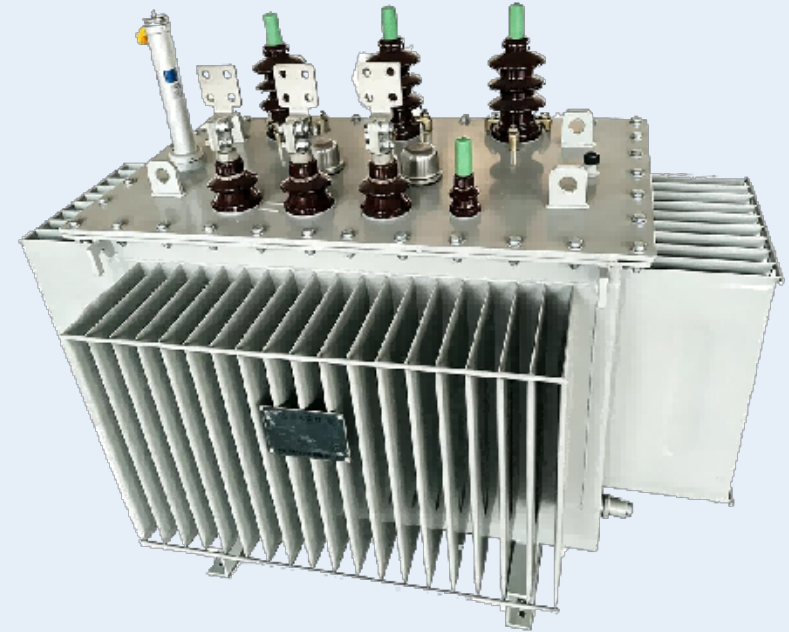
High Reliability Design

It features strong short-circuit withstand capability, a robust structure, and a long service life.



Flexible Connection Modes

It supports multiple vector groups such as Dyn11 / Yyn0, adapting to various power grid requirements.



Heart of the Power System

Safe & Stable • Highly Efficient & Energy Saving • Widely Applicable

Applicable to various scenarios such as industrial/civil power distribution and substation renovation.

	Type	Capacity (kVA)	No-Load Loss (W)	Load Loss (W)	Impedance (%)
S11-M 10KV-0.4kv	S11-M-30	30	100	630	4.0
	S11-M-50	50	130	910	4.0
	S11-M-63	63	150	1,090	4.0
	S11-M-80	80	180	1310	4.0
	S11-M-100	100	200	1,580	4.0
	S11-M-125	125	280	2310	4.0
	S11-M-160	160	280	2,200	4.0
	S11-M-200	200	340	2730	4.0
	S11-M-250	250	400	3,200	4.0
	S11-M-315	315	480	480	4.0
	S11-M-400	400	570	570	4.0
	S11-M-500	500	680	680	4.0
	S11-M-630	630	810	810	4.5
	S11-M-800	800	980	980	4.5
	S11-M-1000	1,000	1150	1150	4.5
	S11-M-1250	1,250	1360	1360	4.5
	S11-M-1600	1,600	1640	1640	4.5
	S11-M-2000	2,000	1940	1940	5.0
	S11-M-2500	2,500	2290	2290	5.0

	Type	Capacity (kVA)	No-Load Loss (W)	Load Loss (W)	Impedance (%)
S11-M 20kv-0.4kv	S11-M-30	30	100	690	5.5
	S11-M-50	50	130	1010	5.5
	S11-M-63	63	150	1200	5.5
	S11-M-80	80	180	1440	5.5
	S11-M-100	100	200	1730	5.5
	S11-M-125	125	240	2080	5.5
	S11-M-160	160	270	2540	5.5
	S11-M-200	200	330	3000	5.5
	S11-M-250	250	400	3520	5.5
	S11-M-315	315	480	4210	5.5
	S11-M-400	400	570	4970	5.5
	S11-M-500	500	680	5940	5.5
	S11-M-630	630	810	6820	6.0
	S11-M-800	800	980	8250	6.0
	S11-M-1000	1000	1150	11330	6.0
	S11-M-1250	1250	1360	13200	6.0
	S11-M-1600	1600	1640	15950	6.0
	S11-M-2000	2000	2050	19140	6.0
	S11-M-2500	2500	2500	22220	6.0

	Type	Capacity (kVA)	No-Load Loss (W)	Load Loss (W)	Impedance (%)
S12-M 6/6.3/10KV- 0.4kv	S12-M-30	30	90	630	4
	S12-M-50	500	120	910	4
	S13-M-63	63	130	1090	4
	S13-M-80	80	150	1310	4
	S13-M-100	100	170	1580	4
	S13-M-125	125	200	1890	4
	S13-M-160	160	240	2310	4
	S13-M-200	200	290	2730	4
	S13-M-250	250	340	3200	4
	S13-M-315	315	410	3830	4
	S13-M-400	400	490	4520	4
	S13-M-500	500	580	5410	4
	S13-M-630	630	690	6200	4.5
	S13-M-800	800	840	7500	4.5
	S13-M-1000	1000	990	10300	4.5
	S13-M-1250	1250	1170	123000	4.5
	S13-M-1600	1600	1410	14500	4.5
	S13-M-2000	2000	1750	18300	5.0
	S13-M-2500	2500	2060	21200	5.0

	Type	Capacity (kVA)	No-Load Loss (W)	Load Loss (W)	Impedance (%)
S13-M 6/6.3/10KV- 0.4kv	S13-M-30	30	80	630	4
	S13-M-50	500	100	910	4
	S13-M-63	63	110	1090	4
	S13-M-80	80	130	1310	4
	S13-M-100	100	150	1580	4
	S13-M-125	125	170	1890	4
	S13-M-160	160	200	2310	4
	S13-M-200	200	240	2730	4
	S13-M-250	250	290	3200	4
	S13-M-315	315	340	3830	4
	S13-M-400	400	410	4520	4
	S13-M-500	500	480	5410	4
	S13-M-630	630	570	6200	4.5
	S13-M-800	800	700	7500	4.5
	S13-M-1000	1000	830	10300	4.5
	S13-M-1250	1250	970	123000	4.5
	S13-M-1600	1600	1170	14500	4.5
	S13-M-2000	2000	1360	18300	5.0
	S13-M-2500	2500	1600	21200	5.0

Ultra High-efficiency Series

S20 Oil-immersed transformer



First-class energy efficiency standard

No-load loss is reduced by more than 20% compared with S13 series, fully complying with national second-class energy efficiency standards.



Eco-friendly materials and technology

Adopts high-purity and greener insulating materials as well as plant-based environmental friendly cooling oil to reduce environmental impact.



Intelligent online monitoring

Optional intelligent temperature control system and real-time condition monitoring module, realize real-time operation data viewing and simplify daily maintenance.

S22 Oil-immersed transformer



Super Grade 1 Energy Efficiency Performance

Its no-load loss is further reduced by 15% compared with S20 series, reaching first-class energy efficiency indicators and setting industry benchmarks.



Ultimate Energy-saving Customization

Specially designed for key projects with strict requirements on PUE and energy efficiency, such as data centers and commercial complexes.



Ultra-long Service Life Design:Adopts top-grade global silicon steel sheets and insulating materials with optimized structural design, greatly extending the full life cycle of the equipment

	Type	Capacity (kVA)	No-Load Loss (W)	Load Loss (W)	Impedance (%)
S20-M 6/6.3/10KV- 0.4kv	S20-M-30	30	70	505	4.0
	S20-M-50	50	90	730	4.0
	S20-M-63	63	100	870	4.0
	S20-M-80	80	115	1050	4.0
	S20-M-100	100	135	1265	4.0
	S20-M-125	125	150	1510	4.0
	S20-M-160	160	180	1850	4.0
	S20-M-200	200	215	2185	4.0
	S20-M-250	250	260	2560	4.0
	S20-M-315	315	305	3065	4.0
	S20-M-400	400	370	3615	4.0
	S20-M-500	500	430	4330	4.0
	S20-M-630	630	510	4960	4.5
	S20-M-800	800	630	6000	4.5
	S20-M-1000	1000	745	8240	4.5
	S20-M-1250	1250	870	9600	4.5
	S20-M-1600	1600	1050	11600	4.5
	S20-M-2000	2000	1225	14640	4.5
	S20-M-2500	2500	1440	16960	4.5

Fully compliant with national first-class energy efficiency standards, greatly reduced no-load loss, high-efficiency energy-saving solutions

	Type	Capacity (kVA)	No-Load Loss (W)	Load Loss (W)	Impedance (%)
S22-M 6/6.3/10KV- 0.4kv	S22-M-30	30	65	455	4
	S22-M-50	50	80	655	4
	S22-M-63	63	90	785	4
	S22-M-80	80	105	945	4
	S22-M-100	100	120	1140	4
	S22-M-125	125	135	1360	4
	S22-M-160	160	160	1665	4
	S22-M-200	200	190	1970	4
	S22-M-250	250	230	2300	4
	S22-M-315	315	270	25760	4
	S22-M-400	400	330	3250	4
	S22-M-500	500	385	3900	4
	S22-M-630	630	460	4460	4.5
	S22-M-800	800	560	5400	4.5
	S22-M-1000	1000	665	7415	4.5
	S22-M-1250	1250	780	8640	4.5
	S22-M-1600	1600	940	10440	4.5
	S22-M-2000	2000	1085	13180	4.5
	S22-M-2500	2500	1280	15270	4.5

Core Products 02 : Dry-Type Transformer

SC(B)Series dry type transformer

Adopting advanced vacuum epoxy resin casting technology, it perfectly combines high mechanical strength and excellent electrical insulation performance, eliminates fire hazards fundamentally, and features outstanding flame retardant, explosion-proof and moisture-proof properties.



Safety & Eco-friendly

Oil-free design completely eliminates oil leakage and fire risks, causes no environmental pollution and meets green low-carbon requirements.



Low Partial Discharge & High Stability

Long-term partial discharge capacity is lower than 5pC, effectively cutting operating loss and noise, ensuring stable and reliable power supply.



High Mechanical Strength

The coils are solidified and shaped with sturdy structure, featuring strong short-circuit impact resistance, suitable for various complex working conditions.



Wide Application Scenarios

Perfectly applicable to high-rise buildings, large data centers, airports, hospitals, rail transit and other key infrastructure fields.



DRY-TYPE TRANSFORMER

HIGH SAFETY · HIGH EFFICIENCY · HIGH RELIABILITY

Include SC(B)11, SC(B)12, SC(B)13, SC(B)14, SC(B)18, SC(B)20

	Type	Capacity (kVA)	No-Load Loss (W)	Load Loss (W)	Impedance (%)
SCB-10 6/6.3/10KV- 0.4kv	SCB11-30	30	190	710	4
	SCB11-50	50	270	1000	4
	SCB11-63	63	340	1090	4
	SCB11-80	80	370	1380	4
	SCB11-100	100	400	1570	4
	SCB11-125	125	170	1850	4
	SCB11-160	160	540	2130	4
	SCB11-200	200	620	2530	4
	SCB11-250	250	720	2760	4
	SCB11-315	315	800	3470	4
	SCB11-400	400	980	3990	4
	SCB11-500	500	1160	4880	4
	SCB11-630	630	1300	5960	6
	SCB11-800	800	1520	6960	6
	SCB11-1000	1000	1770	8130	6
	SCB11-1250	1250	2090	9690	6
	SCB11-1600	1600	2450	11700	6
	SCB11-2000	2000	3050	14400	6
	SCB11-2500	2500	3600	17100	6

	Type	Capacity (kVA)	No-Load Loss (W)	Load Loss (W)	Impedance (%)
SCB-11 6/6.3/10KV- 0.4kv	SCB12-30	30	170	710	4
	SCB12-50	50	240	1000	4
	SCB12-63	63	290	1090	4
	SCB12-80	80	330	1380	4
	SCB12-100	100	360	1570	4
	SCB12-125	125	420	1850	4
	SCB12-160	160	490	2130	4
	SCB12-200	200	560	2530	4
	SCB12-250	250	650	2760	4
	SCB12-315	315	790	3470	4
	SCB12-400	400	880	3990	4
	SCB12-500	500	1040	4880	4
	SCB12-630	630	1170	5960	6
	SCB12-800	800	1360	6960	6
	SCB12-1000	1000	1590	8130	6
	SCB12-1250	1250	1880	9690	6
	SCB12-1600	1600	2200	11700	6
	SCB12-2000	2000	2740	14400	6
	SCB12-2500	2500	3240	17100	6

Next-Gen High-efficiency Dry-type Transformers

SCB12 Series



Level 3 Energy Efficiency

Stable basic energy-saving performance, suitable for conventional power distribution scenarios, compliant with national Class 3 energy efficiency standards.

Robust Structure

The windings are integrally cast with epoxy resin for insulation, delivering excellent overall mechanical rigidity and stable resistance against sudden short-circuit impacts.

Smooth Operation

Iron core vibration-damping structure effectively reduces operational vibration and noise, suitable for conventional premises including factories, residential communities and general commercial buildings.

SCB13 14 Series



Grade 2 Energy Efficiency • High Efficiency

No-load loss reduced by 20%, greatly cutting operating costs and fully compliant with the latest national energy efficiency standards.

Robust Structure

Adopting new type insulating materials to improve mechanical performance of windings and greatly enhance sudden short-circuit resistance.

Quiet Operation

Optimized structural design effectively reduces vibration and operating noise, ideal for sites with strict noise control requirements.

SCB18 Series



World-Class Efficiency

Its no-load loss index reaches world-leading level, serving as the preferred solution for energy-saving renovation in high energy consumption scenarios.

Eco-friendly

All recyclable and pollution-free environmental-friendly materials are adopted, fully complying with EU RoHS directives.

High Stability

Ultra-low partial discharge restrains insulation aging effectively, ensures long-term stable operation and prolongs service life of the equipment.

	Type	Capacity (kVA)	No-Load Loss (W)	Load Loss (W)	Impedance (%)
SCB12 6/6.3/10KV- 0.4kv	SCB14-30	30	150	710	4
	SCB14-50	50	215	1000	4
	SCB14-63	63	270	1290	4
	SCB14-80	80	295	1380	4
	SCB14-100	100	320	1570	4
	SCB14-125	125	375	1850	4
	SCB14-160	160	430	2130	4
	SCB14-200	200	495	2530	4
	SCB14-250	250	575	2760	4
	SCB14-315	315	705	3470	4
	SCB14-400	400	785	3990	4
	SCB14-500	500	930	4880	4
	SCB14-630	630	1040	5960	6
	SCB14-800	800	1215	6960	6
	SCB14-1000	1000	1415	8130	6
	SCB14-1250	1250	1670	9690	6
	SCB14-1600	1600	1960	11730	6
	SCB14-2000	2000	24440	14450	6
	SCB14-2500	2500	2880	17170	6

	Type	Capacity (kVA)	No-Load Loss (W)	Load Loss (W)	Impedance (%)
SCB13 6/6.3/10KV- 0.4kv	SCB18-30	30	135	640	4
	SCB18-50	50	195	900	4
	SCB18-63	63	230	1070	4
	SCB18-80	80	265	1240	4
	SCB18-100	100	290	1410	4
	SCB18-125	125	340	1660	4
	SCB18-160	160	385	1910	4
	SCB18-200	200	445	2270	4
	SCB18-250	250	515	2480	4
	SCB18-315	315	635	3120	4
	SCB13-400	30	705	3590	4
	SCB13-500	50	835	4390	4
	SCB13-630	63	935	5360	6
	SCB13-800	80	1090	6260	6
	SCB13-1000	100	1270	7310	6
	SCB13-1250	125	1500	8720	6
	SCB13-1600	160	1760	10500	6
	SCB13-2000	200	2190	13000	6
	SCB13-2500	250	2590	15400	6

	Type	Capacity (kVA)	No-Load Loss (W)	Load Loss (W)	Impedance (%)
SCB14 6/6.3/10KV- 0.4kv	SCB14-30	30	130	640	4
	SCB14-50	50	185	900	4
	SCB14-63	63	230	1070	4
	SCB14-80	80	250	1240	4
	SCB14-100	100	270	1415	4
	SCB14-125	125	320	1665	4
	SCB14-160	160	365	1915	4
	SCB14-200	200	420	2275	4
	SCB14-250	250	490	2485	4
	SCB14-315	315	600	3125	4
	SCB14-400	400	665	3590	4
	SCB14-500	500	790	4390	4
	SCB14-630	630	885	5365	6
	SCB14-800	800	1035	6265	6
	SCB14-1000	1000	1205	7315	6
	SCB14-1250	1250	1420	8720	6
	SCB14-1600	1600	1665	10555	6
	SCB14-2000	2000	2075	13005	6
	SCB14-2500	2500	2450	15445	6

	Type	Capacity (kVA)	No-Load Loss (W)	Load Loss (W)	Impedance (%)
SCB18 6/6.3/10KV- 0.4kv	SCB18-30	30	105	640	4
	SCB18-50	50	155	900	4
	SCB18-63	63	180	1070	4
	SCB18-80	80	210	1240	4
	SCB18-100	100	230	1415	4
	SCB18-125	125	270	1665	4
	SCB18-160	160	310	1915	4
	SCB18-200	200	360	2275	4
	SCB18-250	250	415	2485	4
	SCB18-315	315	510	3125	4
	SCB14-400	30	570	3590	4
	SCB14-500	50	670	4390	4
	SCB14-630	63	750	5365	6
	SCB14-800	80	875	6265	6
	SCB14-1000	100	1020	7315	6
	SCB14-1250	125	1205	8720	6
	SCB14-1600	160	1415	10555	6
	SCB14-2000	200	1760	13005	6
	SCB14-2500	250	2080	15445	6

Amorphous Alloy Transformer

01. Features

Manufactured via ultra-quench solidification technology, the amorphous alloy features randomly arranged atoms that eliminate magnetic anisotropy. Its magnetic permeability is 2–3 times that of traditional silicon steel sheets, while core loss is merely 1/5 to 1/10 of the latter.

02. Core Advantages

No-load loss is cut by 70%–80%, with no-load current reduced by approximately 85%. The material is fully recyclable, and the overall footprint shrinks by 30%–40% for the same power capacity.

03. Groundbreaking Strengths

Breaking the performance limits of traditional crystalline materials, it delivers perfect compatibility with new energy and energy storage systems. It accounted for over 55% of State Grid tender procurements, establishing it as the mainstream market solution.

04. Application Scenarios

Suitable for urban power distribution networks, photovoltaic & wind power plants, and industrial facilities. It effectively cuts system no-load losses, improves overall power station efficiency, and caters to intermittent operation conditions.

Eco-friendly design: Dramatically reduced carbon emissions throughout the full life cycle



Oil-immersed amorphous alloy transformers: SH15(NX3) SH21(NX2) SH25(NX1)
Dry-type amorphous alloy transformers: SCH15(NX3) SCH17(NX2) SCH19(NX1)

	Capacity (kVA)	No-load Current (%)	No-Load Loss (W)	Load Loss (W)	Impedance (%)
SH15 6/6.3/10KV- 0.4kv	30	1.5	33	630	4
	50	1.2	43	910	4
	63	1.1	50	1090	4
	80	1	60	1310	4
	100	0.9	75	1580	4
	125	0.8	85	1890	4
	160	0.6	100	2310	4
	200	0.6	120	2730	4
	250	0.6	140	3200	4
	315	0.5	170	3830	4
	400	0.5	200	4520	4
	500	0.5	240	5410	4
	630	0.3	320	6200	6
	800	0.3	380	7500	6
	1000	0.3	450	10300	6
	1250	0.2	530	12000	6
	1600	0.2	630	14500	6
	2000	0.2	710	18300	6
	2500	0.2	860	21200	6

	Capacity (kVA)	No-load Current (%)	No-Load Loss (W)	Load Loss (W)	Impedance (%)
SH21 6/6.3/10KV- 0.4kv	30	1.5	33	535	4
	50	1.2	43	780	4
	63	1.1	50	930	4
	80	1	60	1120	4
	100	0.9	75	1350	4
	125	0.8	85	1615	4
	160	0.6	100	1975	4
	200	0.6	120	2330	4
	250	0.6	140	2735	4
	315	0.5	170	3275	4
	400	0.5	200	3865	4
	500	0.5	240	4625	4
	630	0.3	320	5300	6
	800	0.3	380	6415	6
	1000	0.3	450	8800	6
	1250	0.2	530	10260	6
	1600	0.2	630	12400	6
	2000	0.2	710	14800	6
	2500	0.2	860	16300	6

	Capacity (kVA)	No-load Current (%)	No-Load Loss (W)	Load Loss (W)	Impedance (%)
SH25 6/6.3/10KV- 0.4kv	30	1.5	25	510	4
	50	1.2	35	735	4
	63	1.1	40	880	4
	80	1	50	1060	4
	100	0.9	60	1270	4
	125	0.8	70	1530	4
	160	0.6	80	1870	4
	200	0.6	90	2210	4
	250	0.6	110	2590	4
	315	0.5	135	3100	4
	400	0.5	160	3660	4
	500	0.5	190	4380	4
	630	0.3	250	5020	6
	800	0.3	300	6075	6
	1000	0.3	360	8340	6
	1250	0.2	425	9720	6
	1600	0.2	500	11745	6
	2000	0.2	550	14000	6
	2500	0.2	670	15450	6

	Capacity (kVA)	No-load Current (%)	No-Load Loss (W)	Load Loss (W)	Impedance (%)
SCH15 6/6.3/10KV- 0.4kv	30	0.6	70	710	4
	50	0.5	90	1000	4
	63	0.5	110	1290	4
	80	0.5	120	1380	4
	100	0.5	130	1570	4
	125	0.4	150	1850	4
	160	0.4	170	2130	4
	200	0.4	200	2530	4
	250	0.4	230	2760	4
	315	0.3	280	3470	4
	400	0.3	310	3990	4
	500	0.3	360	4880	4
	630	0.3	410	5960	6
	800	0.3	480	6960	6
	1000	0.2	550	5130	6
	1250	0.2	650	9690	6
	1600	0.2	760	11730	6
	2000	0.2	1000	14450	6
	2500	0.2	1200	17170	6

	Capacity (kVA)	No-load Current (%)	No-Load Loss (W)	Load Loss (W)	Impedance (%)
SCH17 6/6.3/10KV- 0.4kv	30	0.6	60	640	4
	50	0.5	75	900	4
	63	0.5	90	1070	4
	80	0.5	100	1240	4
	100	0.5	110	1415	4
	125	0.4	130	1665	4
	160	0.4	145	1915	4
	200	0.4	170	2275	4
	250	0.4	195	2485	4
	315	0.3	235	3125	4
	400	0.3	265	3590	4
	500	0.3	305	4390	4
	630	0.3	350	5365	6
	800	0.3	410	1265	6
	1000	0.2	470	7315	6
	1250	0.2	550	8720	6
	1600	0.2	645	10555	6
	2000	0.2	850	13005	6
	2500	0.2	1020	15445	6

	Capacity (kVA)	No-load Current (%)	No-Load Loss (W)	Load Loss (W)	Impedance (%)
SCH19 6/6.3/10KV- 0.4kv	30	0.6	50	640	4
	50	0.5	60	900	4
	63	0.5	75	1070	4
	80	0.5	85	1240	4
	100	0.5	90	1415	4
	125	0.4	105	1665	4
	160	0.4	120	1915	4
	200	0.4	140	2275	4
	250	0.4	160	2485	4
	315	0.3	195	3125	4
	400	0.3	215	3590	4
	500	0.3	250	4390	4
	630	0.3	290	5365	6
	800	0.3	335	1265	6
	1000	0.2	385	7315	6
	1250	0.2	455	8720	6
	1600	0.2	530	10555	6
	2000	0.2	700	13005	6
	2500	0.2	840	15445	6

3D Wound Core Three-Phase Transformer



The internal structure of a 3D wound core transformer is distinguished from conventional laminated transformers by its core triangular 3D wound core, which achieves dual optimization of magnetic circuit and mechanical structure. Product voltage classes: 6/10kV, 20kV, 35kV; configurations include non-excitation voltage regulation and on-load tap-changer versions. Core types: silicon steel core & amorphous alloy core. Product categories: distribution transformers, power transformers.

01 Core Feature:

Triangular Three-Dimensional Wound Core

It is continuously wound with high-quality silicon steel sheets into three core legs to form an equilateral triangular three-dimensional structure. This fundamentally changes the core structure of traditional laminated transformers and lays the foundation for its leap-forward performance improvement

02 Key Characteristics:

Seamless, Fully Symmetrical & Compact Structure Eliminates core seams, delivers smooth magnetic circuits with perfectly equal three-phase lengths for balanced and stable no-load current. The three-dimensional design greatly reduces overall volume and weight, substantially cutting installation space occupation and transportation costs

High Energy Efficiency

The seamless design drastically reduces no-load and load losses, making it an energy-saving product.

Low Noise Operation

Optimized magnetic circuit and compact structure cut vibration & noise, fit for noise-sensitive locations.

High Short-Circuit Resistance

Compact winding-core structure offers robust mechanical strength to resist sudden short-circuit shocks.

6KV/10KV-400V Three-Phase Oil-Immersed Off-Circuit Tap-Changer
Silicon Steel 3D Wound Core Transformer

Capacity (kVA)	S13-MRL		S20-MRL		S22-MRL		Impedance (%)
	No-load Loss (W)	Load Loss (W)	No-load Loss (W)	Load Loss (W)	No-load Loss (W)	Load Loss (W)	
30	80	630/600	70	505/480	65	455/430	4
50	100	910/870	90	730/695	80	655/625	4
63	110	1090/1040	100	870/830	90	785/745	4
80	130	1310/1250	115	1050/1000	105	945/900	4
100	150	1580/1500	135	1260/1200	120	1140/1080	4
125	170	1890/1800	150	1510/1440	135	1360/1290	4
160	200	2310/2200	180	1850/1760	160	1660/1580	4
200	240	2730/2600	215	2180/2080	190	1970/1870	4
250	290	3200/3050	260	2560/2440	230	2300/2190	4
315	340	3830/3650	305	3060/2920	270	2760/2630	4

Capacity (kVA)	S13-MRL		S20-MRL		S22-MRL		Impedance (%)
	No-load Loss (W)	Load Loss (W)	No-load Loss (W)	Load Loss (W)	No-load Loss (W)	Load Loss (W)	
400	410	4520/4300	370	3610/3440	330	3250/3090	4
500	480	5400/5140	430	4330/4120	385	3900/3710	4
630	570	6200	510	4960	460	4460	4.5
800	700	7500	630	6000	560	5400	4.5
1000	830	10300	745	8240	665	7410	4.5
1250	970	12000	870	9600	780	8640	4.5
1600	1170	14500	1050	11600	940	10400	4.5
2000	1300	18300	1220	14600	1080	13100	5
2500	1600	21200	1440	16900	1280	15200	5
3150	2000	27000	1800	21600	1600	18900	6
4000	2500	34300	2250	27400	2000	24000	6

6KV/10KV-400V Oil-immersed Off-circuit Regulation 3D Wound
Amorphous Alloy Transformer

Capacit y (kVA)	SBH15-MRL		SBH21-MRL		SBH25-MRL		Impe danc e (%)
	No-load Loss (W)	Load Loss (W)	No-load Loss(W)	Load Loss (W)	No Load Loss (W)	Load Loss (W)	
30	33	630/600	33	535/510	25	510/480	4
50	43	910/870	43	780/745	35	735/700	4
63	50	1090/1040	50	930/890	40	886/840	4
80	60	1310/1250	60	1120/1070	50	1060/1010	4
100	75	1580/1500	75	1350/1280	60	1270/1210	4
125	85	1890/1800	85	1610/1540	70	1530/1450	4
160	100	2310/2200	100	1970/1880	80	1870/1780	4
200	120	2730/2600	120	2330/2220	95	2210/2100	4
250	140	3200/3050	140	2730/2610	110	2590/2470	4
315	170	3830/3650	170	3270/3120	130	3100/2950	4

Capacit y (kVA)	SBH15-MRL		SBH21-MRL		SBH25-MRL		Imped ance (%)
	No-load Loss (W)	Load Loss (W)	No-load Loss (W)	Load Loss (W)	No Load Loss (W)	Load Loss (W)	
400	200	4520/4300	200	3860/3670	160	3660/3480	4
500	240	5400/5140	240	4620/4400	190	4380/4170	4
630	320	6200	320	5300	250	5020	4.5
800	380	7500	380	6410	300	670	4.5
1000	450	10300	450	8800	360	8340	4.5
1250	530	12000	530	10200	425	9720	4.5
1600	630	14500	630	12400	500	11700	4.5
2000	710	18300	710	14800	550	14000	5
2500	860	21200	860	17100	670	16200	5
3150	1100	27000	1100	22900	880	21600	6
4000	1380	34300	1380	29100	1100	27400	6

6KV/10KV-400V Three-Phase Dry-Type Distribution Transformer with 3D
Wound Silicon Steel Core & Off-Circuit Tap Changer

Capacity (kVA)	SCH12-RL		SCH14-RL		SBC18-RL		Impedan ce (%)
	No-load Loss (W)	Load Loss(F) (W)	No-load Loss (W)	Load Loss(F) (W)	No-load Loss (W)	Load Loss(F) (W)	
30	150	710	130	640	105	640	4
50	215	1000	185	900	155	900	4
80	295	1380	250	1240	210	1240	4
100	320	1570	270	1410	230	1410	4
125	375	1850	320	1660	270	1660	4
160	430	2130	365	1910	310	1910	4
200	495	2530	420	2270	360	2270	4
250	575	2760	490	2480	415	2480	4
315	705	3470	600	3120	510	3120	4
400	785	3990	665	3590	570	3590	4

Capacity (kVA)	SCH12-RL		SCH14-RL		SBC18-RL		Impeda nce (%)
	No-load Loss (W)	Load Loss(F) (W)	No-load Loss (W)	Load Loss(F) (W)	No-load Loss (W)	Load Loss(F) (W)	
500	930	4880	790	4390	670	4390	4
630	1070	5880	910	5290	775	5290	4
630	1040	5960	885	5360	750	5360	6-8
800	1210	6960	1030	6260	875	6260	6-8
1000	1410	8130	1200	7310	1020	7310	6-8
1250	1670	9690	1420	8720	1200	8720	6-85
1600	1960	11700	1660	10500	1410	10500	6-8
2000	2440	14400	2070	13000	1760	13000	6-8
2500	2880	17100	2450	15400	2080	15400	6-8
3150	3430	20300	2910	18300	2570	18300	6-8
4000	4100	24300	3480	21900	3050	21900	6-8

6KV/10KV-400V 三相干式无励磁调压非晶合金立体卷铁芯配电变压器

Capacit y (kVA)	SCH12-RL		SCH14-RL		SCH18-RL		Impeda nce(%)
	No-load Loss (W)	Load Loss(F) (W)	No-load Loss (W)	Load Loss(F) (W)	No-load Loss (W)	Load Loss(F) (W)	
30	70	710	60	640	50	640	4
50	90	1000	75	900	60	900	4
80	120	1380	100	1240	85	1240	4
100	130	1570	110	1410	90	1410	4
125	150	1850	130	1660	105	1660	4
160	170	2130	145	1910	120	1910	4
200	200	2530	170	2270	140	2270	4
250	230	2760	195	2480	160	2480	4
315	280	3470	235	3120	195	3120	4
400	310	3990	265	3590	215	3590	4

Capacit y (kVA)	SCH12-RL		SCH14-RL		SCH18-RL		Impeda nce(%)
	No-load Loss (W)	Load Loss(F) (W)	No-load Loss (W)	Load Loss(F) (W)	No-load Loss (W)	Load Loss(F) (W)	
500	360	4880	305	4390	250	4390	4
630	420	5880	360	5290	295	5290	4
630	410	5960	350	5360	290	5360	6-8
800	480	6960	410	6260	335	6260	6-8
1000	550	8130	470	7310	385	7310	6-8
1250	650	9690	550	8720	455	8720	6-8
1600	760	11700	645	10500	530	10500	6-8
2000	1000	14400	850	13000	700	13000	6-8
2500	1200	17100	1020	15400	840	15400	6-8
3150	1420	20300	1210	18300	990	18300	6-8
4000	1690	24300	1430	21900	1180	21900	6-8

Core Products 03: Prefabricated Box Substation

Prefabricated Compact Substation

Adopts integrated prefabricated design, combining high/low voltage distribution, transformer and protection devices into one compact unit. It features factory pre-assembly, fast on-site installation, excellent safety, and strong environmental adaptability.



Compact & Space-saving

Small footprint with integrated design, saving over 60% space compared to traditional substations, ideal for urban and area-limited sites.



Fast Installation & Delivery

Fully prefabricated and tested in factory, requiring only simple connection on site, cutting construction time by 70%.



High Safety & Reliability

IP54/IP65 protection grade, with built-in lightning, overload and short-circuit protection, ensuring stable operation in harsh conditions.



Wide Application Scenarios

Perfect for residential communities, commercial complexes, data centers, photovoltaic/wind power plants, and temporary construction sites.

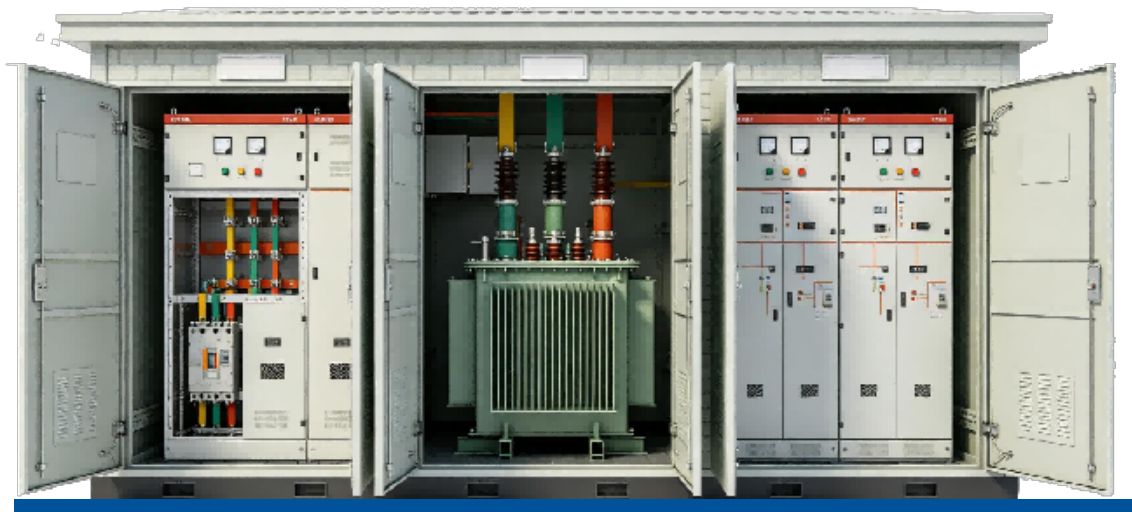


COMPACT TRANSFORMER

HIGH SAFETY • HIGH INTEGRATION • FAST DEPLOYMENT

Include European-style, American-style, Customized solutions.

European Type



Structure features:



Rooms of High-voltage , transformer & low-voltage are independently separated with a clear layout. Each functional unit works without mutual interference, facilitating daily operation, maintenance and inspection.



Protection Grade:

The grade reaches IP33/IP54, providing excellent dustproof and splash-proof performance, adapting to various complex outdoor climates.



Application Scenarios:

Urban core power grid renovation, large industrial parks, high-end residential communities and other important sites with high requirements for power supply reliability and safety.

Model	Capacity (kVA)	Voltage	Grade	Dimension (L×W×H) mm
YBM-30	30	10KV-0.4KV	IP33 IP54	2200 × 1500 × 2300
YBM-50	50			2200 × 1500 × 2300
YBM-80	80			2500 × 1600 × 2400
YBM-100	100			2500 × 1600 × 2400
YBM-160	160			2800 × 1800 × 2500
YBM-200	200			2800 × 1800 × 2500
YBM-250	250			3000 × 2000 × 2600
YBM-315	315			3000 × 2000 × 2600
YBM-400	400			3200 × 2200 × 2700
YBM-500	500			3200 × 2200 × 2700
YBM-630	630			3500 × 2500 × 2800
YBM-800	800			3500 × 2500 × 2800
YBM-1000	1000			3800 × 2800 × 3000

American Type Compact Substation

Full range capacity covers 30kVA to 500kVA. Protection class IP23. Ideal for outdoor compact spaces and temporary power supply applications.

Model	Capacity (kVA)	Voltage	Grade	Dimension (L×W×H) mm
ZGS-30	30	10kv-0.4kv	IP23 IP44 IP54	1800 × 1200 × 2000
ZGS-50	50			1800 × 1200 × 2000
ZGS-80	80			2000 × 1300 × 2100
ZGS-100	100			2000 × 1300 × 2100
ZGS-160	160			2200 × 1500 × 2200
ZGS-200	200			2200 × 1500 × 2200
ZGS-250	250			2400 × 1600 × 2300
ZGS-315	315			2400 × 1600 × 2300
ZGS-400	400			2600 × 1800 × 2400
ZGS-500	500			2600 × 1800 × 2400



Structural Features:

Transformer and low-voltage switches are integrated in one chamber. Compact size cuts costs, easy for transport and installation.



Protection Class:

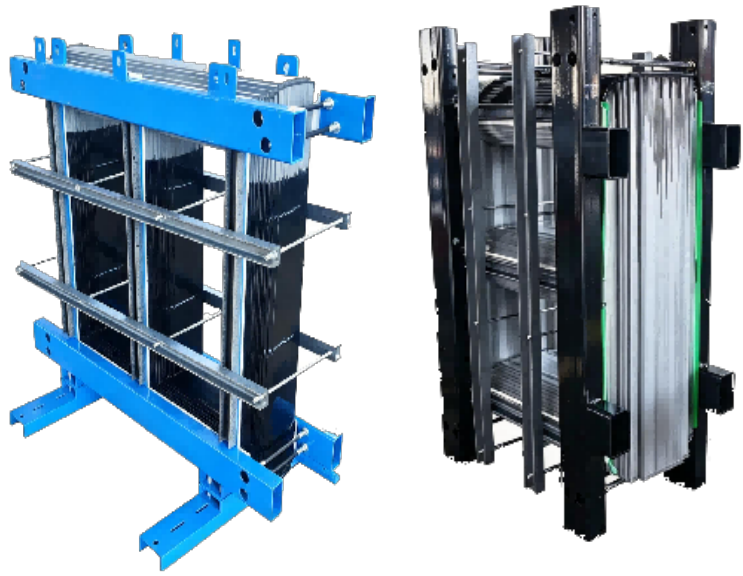
Standard IP23, designed for outdoor use, well balanced in heat dissipation and cost.



Application:

Construction temporary power, commercial zones, street lighting and municipal facilities with limited space and budget.

Transformer Iron Core



The core is laminated with multiple layers of silicon steel sheets to effectively cut eddy current loss. It acts as the core magnetic framework enabling electromagnetic induction in power transformers.

Core Function: Energy Conversion Framework

It serves as the main flux path to boost winding magnetic coupling for efficient power transfer. High-permeability materials cut transformer volume and production costs.

Key Characteristics: Core Performance Metrics

It features high permeability, low hysteresis & eddy loss, high saturation flux density, plus robust mechanical strength to bear electromagnetic force and self-weight for steady long-term operation.

Silicon Steel Sheet Core:

Mature, low-cost and mechanically robust, widely adopted for power & distribution transformers.

Amorphous Alloy Core:

New energy-saving material with 70%–80% less no-load loss and lower noise. Costly and brittle, suitable for high-efficiency premium distribution projects.

Silicon Steel Core: Foundation of the Power Industry

What is silicon steel core?

Silicon Steel (electrical steel) is the iron-silicon alloy containing 0.5%-4.5% silicon material. It is made by rolling, stamping and stacking into lamination to form the core. It is a core material of the soft magnetic type that is crucial in the fields of power and electronics. Owing to its fabulous magnetic productivity, it serves as a key carrier of energy exchange through production, transmission and conservation of the electrical power.

Oriented Silicon Steel (GO)

The internal grains are arranged in an orderly manner, with high magnetic conductivity and low iron loss. It is the "heart material" used in the manufacture of high-voltage and large-capacity power transformers.

Core Scenario: High-voltage Transformer

Non-oriented Silicon Steel(NO)

The grains are randomly distributed and the magnetic properties are isotropic. It can adapt to changes in multiple directions of magnetic fields, has excellent processing performance, and has an extremely wide range of applications.

Scenario: Generator and Engine

High Loss • Energy Efficiency Bottleneck

It suffers high energy loss at high frequencies; its high material density increases unit size and weight, limiting high-integration layouts.

Mature Technology • Cost Controllable

Its production process is stable, and total cost is lower than amorphous alloy. Silicon steel has applied for over a century, its consistency and reliability has gone through full market validation.

Core Application Field

Power Transformer	Power Source Manufacturing	Residents' Livelihood and Light Industry
Grid transmission backbone: oriented silicon steel offers low loss & stable long-distance power transfer..	Non-oriented silicon steel, the core of generators & motors.	Silicon steel powers household appliances such as air conditioners and refrigerators for millions of families.
From ultra-high voltage transmission lines to urban distribution substations, this constitutes the physical foundation of the modern power system.	Covering thermal power, hydropower and heavy machinery, efficiently converting electrical energy into mechanical energy.	Achieve miniaturized energy conversion, enhance equipment efficiency, and improve the quality of life.

Technical Specifications for Oriented Silicon Steel

Parameters	Typical Figure	Instructions
Nominal thickness	0.23/0.27/0.30/0.35mm	The thinner the thickness, the lower the loss.
Iron loss (P1.7/50Hz)	≤ 1.0 W/kg (High grade)	The loss per unit weight of iron should be as low as possible.
Magnetic induction intensity (B800)	≥ 1.70 T	The magnetic flux density under an 800A/m magnetic field
Laminating coefficient	≥ 96.5%	The proportion of the effective cross-sectional area of the core
Coating insulation resistance	≥ 100 Ω · mm ²	Ensure interlayer insulation and reduce eddy current losses

Amorphous alloy core: Leading the new era of high efficiency and energy conservation

Extremely Energy Saving 70%-80% lower no-load loss than silicon steel, compliant with GB 20052-2024 Grade 1 energy efficiency; 100kVA unit saves 1,000+ kWh per year.	Excellent Magnetic Properties Its permeability is 2–3 times higher than conventional silicon steel with lower excitation current. Low coercivity cuts hysteresis loss, boosting equipment efficiency and response speed.	High-frequency Strong Adaptation Triple resistivity of silicon steel plus ultra-thin 0.025mm strips suppress eddy currents, slashing losses drastically for high-frequency power conversion.
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Core Technical Parameters

Strip Thickness 0.025 ~ 0.03mm	Saturation magnetic induction intensity 1.5 ~ 1.7T	Power Frequency Loss($P_{1.0}$) < 0.15W/kg
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Excellent soft magnetism, high permeability & ultra-low high-frequency loss. Replaces oriented silicon steel and permalloy, cutting heat buildup and prolonging equipment lifespan.

70-80% Sharply reduced no-load loss, drastically lower energy costs.	200%-300% High Magnetic permeability performance & compact in size.	300% Higher resistivity, stable performance under high frequency.
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Amorphous alloy cores, as a revolutionary soft magnetic material, possess a unique atomic disorder structure that completely surpasses the physical limitations of traditional silicon steel. Under the backdrop of the "dual carbon" strategy, it is not only the preferred solution for energy efficiency upgrades of power transformers, but also the core technical support for achieving lightweighting and high efficiency in high-end manufacturing fields such as new energy and electric vehicles.



High-efficient electric Transformer

From oil-immersed type to dry type, it fully meets the first-level energy efficiency standards of the new national regulations. It is a core component of the national power grid's energy-saving renovation and smart grid construction.



Green Energy

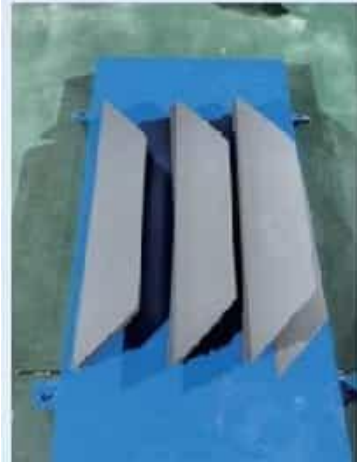
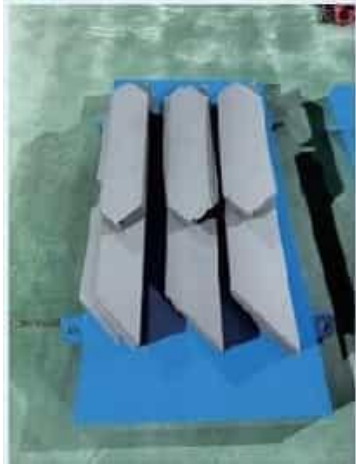
Adapted for use with wind turbine converters and photovoltaic inverters, it enhances the grid connection efficiency of renewable energy sources and reduces energy waste during power transmission.



New Energy Vehicles

Used in vehicle charging units and DC-DC converters, its high-frequency and low-power consumption features facilitate lightweight design and effectively enhance the vehicle's range.

Iron Core display



Contact Us

EXPECTING WIN-WIN COOPERATION



COMPANY ADDRESS

ChangAn Town Shijiazhuang City ,Hebei
Province.



Cell/Whatsapp:

+86 15833927003



EMAIL :

info@anshpower.com



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