



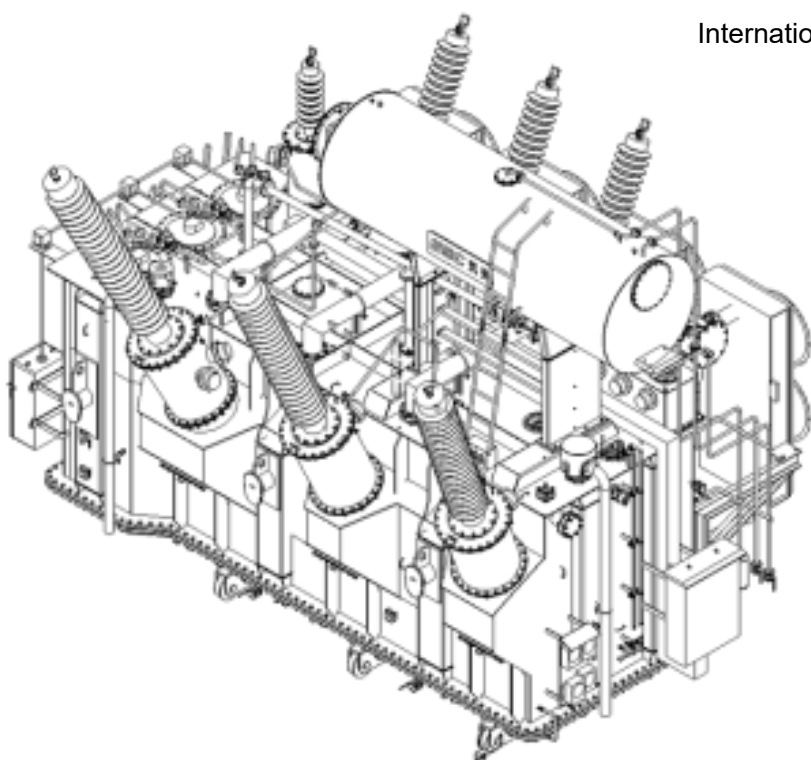
PRODUCT CATALOG

Quality, Reliable, Powering Worldwide

Shaanxi Hanzhong Transformer Co.,Ltd.

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Company Profile >>>

Shaanxi Hanzhong Transformer Co., Ltd. (SEC) is one of the major national manufacturers of large and medium-size transformer, dry type transformer, rectifier transformer, furnace transformer, European type transformer, American type transformer, Chinese type transformer, vacuum oil purifier, high and low voltage switch cabinet, with total assets of 876 million YUAN. There are six subsidiary companies, with super technology research and development ability, rich manufacturing experience and perfect testing means, advanced production equipment, strong technical force and other advantages.

Since 1998, we have obtained the ISO9001 quality system certification, environmental management system certification, occupational health and safety management system certification, energy conservation certification, provincial enterprise technology center certification, 52 patent certificates, certificates of high and new technology enterprise, European CE certification, and was approved as self-management import and export enterprise.

The company always adhere to the policy of "integrity-based, scientific management, continuous improvement, striving for perfection", regards "market needs, customer satisfaction" as the goal. We take the advanced manufacturing process and testing equipment, high-quality staff teams, good product quality, ontime delivery and satisfactory after-sales service to provide users with high-quality products. Currently, the company's products are exported to over 60 countries and regions—including Romania, Estonia, Albania, Japan, Russia, Australia, Chile, South Africa, Nigeria, Indonesia, and Ecuador—and have garnered widespread praise from users worldwide. We are the designated transformer supplier of State Grid of China, Ukraine Power Bureau and Chile Power Grid Corporation.

We are seeking for global extensive strategic cooperation, so that the industrial civilization is constantly spread around the world, which is our great ideal and also our good wishes for the future electric power era.



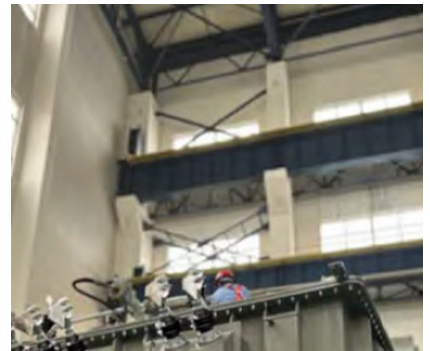
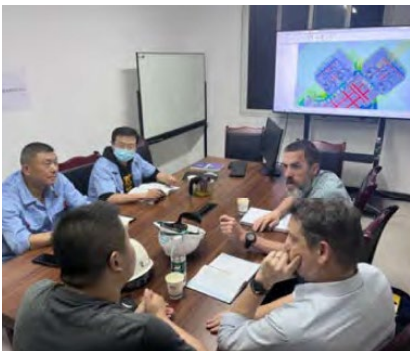
International Exchange >>>

It is more than cooperation,
it is communication.

It is more than clients,
it is friends.

We have already made many International friends
every year.

Sincerely welcome you.



Quality Control >>>

At SEC, Quality is Not Just a Priority—It is Our Promise and Our Legacy.

We uphold the unwavering belief that quality determines the life of an enterprise, and benefits are the ultimate reward of quality. A product's performance may open a door, but it is quality that builds a lasting home. This truth is why building a flawless quality system is not a project with an end date, but an endless journey we willingly and enthusiastically undertake.

To transform our vision into tangible reality—serving customers with genuine dedication, taking full responsibility for their diverse needs, and earning their lasting satisfaction—we have embedded Total Quality Management (TQM) into our corporate DNA. This means controlling quality at every single stage:

- From market exploration that listens to unspoken needs,
- To product innovation that turns ideas into reliable solutions,
- Through precision manufacturing that ensures consistency,
- Past rigorous inspection that leaves nothing to chance,
- And beyond, with responsive after-sales support that stands by our commitments.

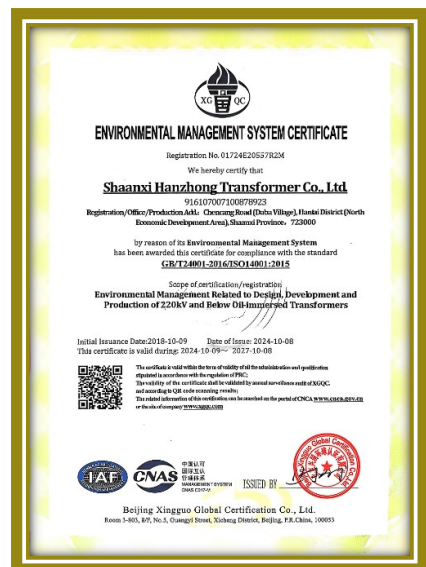
Our journey of excellence is backed by experience. With over two decades of continuous refinement of our quality management system, our team's awareness has not only continuously evolved—it has flourished. What began as training is now a culture; what was once a guideline is now a guiding principle. Today, this culture of quality excellence directs everything we do, ensuring that every product leaving our facility reflects our unwavering commitment to integrity, safety, and performance. We don't just manufacture products; we build peace of mind for our customers.



Qualification Certificate >>>

We uphold "market demands and customer satisfaction" as our ultimate goal. This customer-centric approach drives us to leverage our key strengths:

- **Advanced Equipment:** State-of-the-art manufacturing and testing facilities ensure product consistency and reliability.
- **Skilled Workforce:** Experienced professionals committed to excellence at every stage.
- **Superior Quality:** Rigorous quality control and continuous improvement guarantee the highest standards.
- **Reliable Service:** On-time delivery and responsive after-sales support for a seamless customer experience.



MA 230008349829 **CNAS** 中国合格评定国家认可委员会 CNAS 110001

实验室名称: 苏州电器科学研究院股份有限公司
国家电器产品质量检验检测中心
Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. 21088910-5

型式试验报告

Type Test Report

委托单位: 陕西汉中变压器有限责任公司
Client: SHAANXI HANZHONG TRANSFORMER CO., LTD.

产品名称: 有载调压电力变压器
Name of Product: On-load-tap-changing power transformer

产品型号: SSZ22-240000/220-XXL
Product Type: SSZ22-240000/220-XXL

检验类别: 型式试验
Test Category: Type test

本实验室对出具的检验(试验)结果负责, 未经实验室书面同意, 不得部分地复制本报告。
The laboratory is responsible for the inspection (Test) results. The report shall not be reproduced except in full, written approval of the laboratory.

MA 230008349829 **CNAS** 中国合格评定国家认可委员会 CNAS 110001

实验室名称: 苏州电器科学研究院股份有限公司
国家电器产品质量检验检测中心
Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. 24M1113-5

检验(试验)报告

Test Report

委托单位: 陕西汉中变压器(集团)有限责任公司
Client: SHAANXI HANZHONG TRANSFORMER (Group) Co., Ltd. P.R. China

产品名称: 有载调压电力变压器
Name of Product: On-load-tap-changing Power Transformer

产品型号: SSZ22-200000/115-XXL
Product Type: SSZ22-200000/115-XXL

检验类别: 委托试验
Test Category: Commission test

本实验室对出具的检验(试验)结果负责, 未经实验室书面同意, 不得部分地复制本报告。
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MA 170008221580 **CNAS** 中国合格评定国家认可委员会 CNAS 110001

实验室名称: 苏州电器科学研究院股份有限公司
国家电器产品质量检验检测中心
Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. 21M4073-S

型式试验报告

Type Test Report

委托单位: SHAANXI HANZHONG TRANSFORMER CO., LTD
Client: SHAANXI HANZHONG TRANSFORMER CO., LTD

产品名称: On-load-tap-changing power transformer
Name of Product: On-load-tap-changing power transformer

产品型号: SSZ20-63000/110
Product Type: SSZ20-63000/110

检验类别: 型式试验
Test Category: Type test

本实验室对出具的检验(试验)结果负责, 未经实验室书面同意, 不得部分地复制本报告。
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MA 170008221580 **CNAS** 中国合格评定国家认可委员会 CNAS 110001

实验室名称: 苏州电器科学研究院股份有限公司
国家电器产品质量检验检测中心
Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. 21M3530-S

型式试验报告

Type Test Report

委托单位: SHAANXI HANZHONG TRANSFORMER CO., LTD
Client: SHAANXI HANZHONG TRANSFORMER CO., LTD

产品名称: Power transformer
Name of Product: Power transformer

产品型号: SZ20-31500/35
Product Type: SZ20-31500/35

检验类别: 型式试验
Test Category: Type test

本实验室对出具的检验(试验)结果负责, 未经实验室书面同意, 不得部分地复制本报告。
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MA 230008349829 **CNAS** 中国合格评定国家认可委员会 CNAS 110001

实验室名称: 苏州电器科学研究院股份有限公司
国家电器产品质量检验检测中心
Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
China National Center for Quality Inspection and Test of Electrical Apparatus Products

No. 23XL0138-S

检验(试验)报告

Test Report

委托单位: 陕西汉中变压器有限责任公司
Client: SHAANXI HANZHONG TRANSFORMER CO., LTD. P.R. China

产品名称: EARTHING TRANSFORMER
Name of Product: EARTHING TRANSFORMER

产品型号: STD-6900/22
Product Type: STD-6900/22

检验类别: 委托试验
Test Category: Commission test

本实验室对出具的检验(试验)结果负责, 未经实验室书面同意, 不得部分地复制本报告。
The laboratory is responsible for the inspection (Test) results. The report shall not be reproduced except in full, written approval of the laboratory.

MA 18011712838 **CNAS** 中国合格评定国家认可委员会 CNAS 11177

实验室名称: 国家节能产品质量监督检验中心
国家节能产品质量监督检验中心
Lab Name: National Supervision and Inspection Center for Energy-saving Product Quality
National Supervision and Inspection Center for Energy-saving Product Quality

No. AK1301036-2021

检验报告

TEST REPORT

样品名称: 干式电力变压器
Sample Name: Dry-type power transformer

规格型号: SCB18-2500/10-XXL 2500KVA
Specification: SCB18-2500/10-XXL 2500KVA

委托单位: 汉中中环干式变压器有限公司
Client: Hanzhong Zhonghuan Dry-type Transformer Co., Ltd.

检验类别: 型式试验
Test Category: Type test

本实验室对出具的检验(试验)结果负责, 未经实验室书面同意, 不得部分地复制本报告。
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KEMA

Report

Report number: 07-63524A
Project number: 70755033
Apparatus: Dry Type Power Transformer 1250kVA
Client: SVET, CTQC
Test location: SVET, CTQC, Shenyang, P.R. China
Manufacturer: Hanzhong Xinhuan Dry-type Transformer Co., Ltd.

Amstern, 01 October 2007

UDEM

CERTIFICATE

CERTIFICATE OF ATTESTATION

Regulations has been taken as references for these processes.

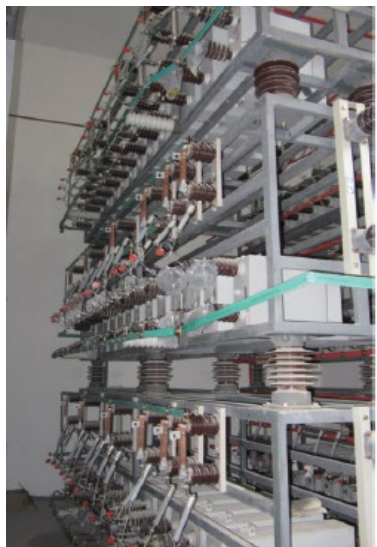
Company Name (Applicant / Manufacturer): Shaanxi Hanzhong Transformer Co., Ltd.
Company Address (Applicant / Manufacturer): Chenzong Road South/North Economic Development Area, Hanzhong, Shaanxi Province, P.R. China

Related Standards: GB1094.1-2013; GB1094.2-2013; GB1094.3-2013; GB1094.4-2013; GB1094.5-2013; GB1094.6-2013; GB1094.7-2013; GB1094.8-2013; GB1094.9-2013; GB1094.10-2013; GB1094.11-2013; GB1094.12-2013; GB1094.13-2013; GB1094.14-2013; GB1094.15-2013; GB1094.16-2013; GB1094.17-2013; GB1094.18-2013; GB1094.19-2013; GB1094.20-2013; GB1094.21-2013; GB1094.22-2013; GB1094.23-2013; GB1094.24-2013; GB1094.25-2013; GB1094.26-2013; GB1094.27-2013; GB1094.28-2013; GB1094.29-2013; GB1094.30-2013; GB1094.31-2013; GB1094.32-2013; GB1094.33-2013; GB1094.34-2013; GB1094.35-2013; GB1094.36-2013; GB1094.37-2013; GB1094.38-2013; GB1094.39-2013; GB1094.40-2013; GB1094.41-2013; GB1094.42-2013; GB1094.43-2013; GB1094.44-2013; GB1094.45-2013; GB1094.46-2013; GB1094.47-2013; GB1094.48-2013; GB1094.49-2013; GB1094.50-2013; GB1094.51-2013; GB1094.52-2013; GB1094.53-2013; GB1094.54-2013; GB1094.55-2013; GB1094.56-2013; GB1094.57-2013; GB1094.58-2013; GB1094.59-2013; GB1094.60-2013; GB1094.61-2013; GB1094.62-2013; 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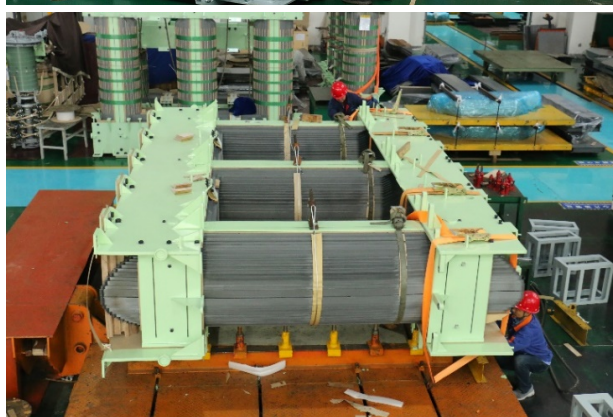
Manufacturing & Testing >>>

Innovation Drives Growth, Technology Shapes the Future.

We believe that innovation is the lifeblood of progress. By embracing new ideas and pushing the boundaries of possibility, we keep our enterprise vibrant and forward-thinking. Through continuous innovation and cutting-edge technology, we not only lead the industry today but also define its direction for tomorrow.







Overseas Performance >>>



OSSFZ-125000/230
Kyrgyzstan Talas 220kV Substation



SFZ-20000/66
Chile San Gregorio Substation



SF-25000/110
Albania Substation



SFFZ-60000/20
Chile PIEM project



ZHSFPZ-35000/110
Ethiopia Steel Plant



Mobile Transformer
Iran



SF-24000/66
Ecuador Substation



SFZ11-63000/110
Uzbekistan Samarkand Steel Works



SFSZ-40000/115
Uzbekistan Jizzakh Substation



SFZ-160000/230
India LMEL Steel Plant



SFFPZ-160000/220
Russia Substation



SFSZ11-60000/132
Sudan Showak Substation



SZ-6300/110
Tajikistan Qozideh Substation



SFZ-45000/220
Tanzania KITADU Substation



SFZ11-63000/115
Vietnam TASCO Power Plant



SFZ-30000/66
Chile Longavi Substation

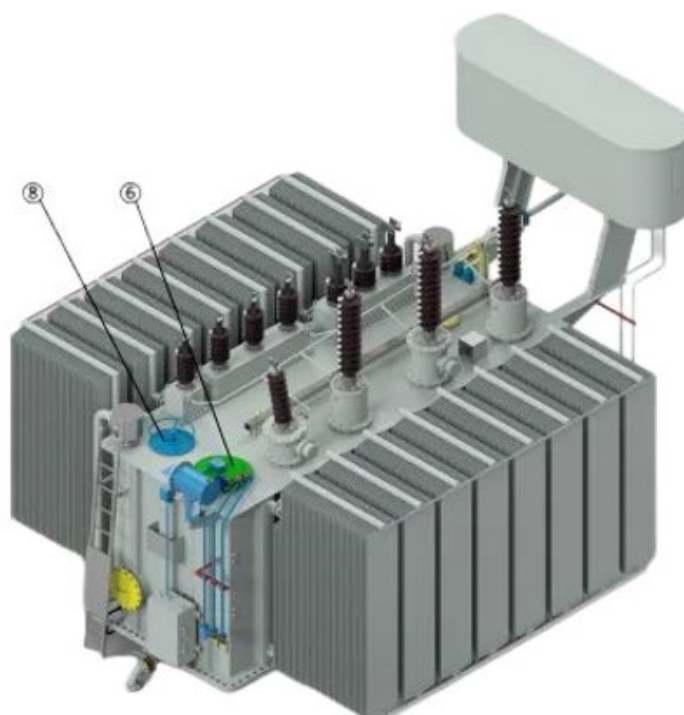


SFZ11-25000/115
Ukraine Substation

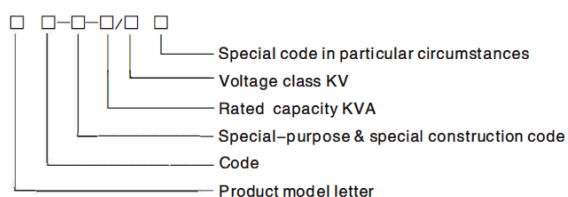


SFPZ11-16000/35 Mobile Transformer
Russia

Outline Drawing >>>

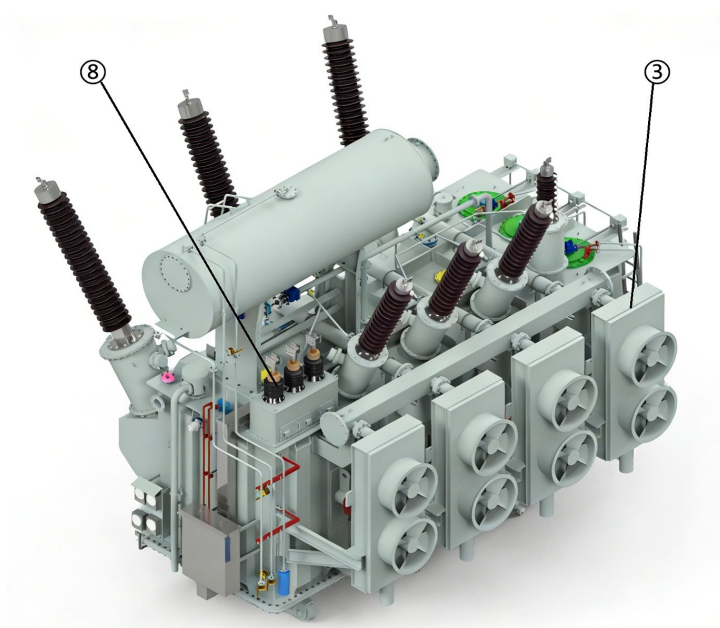
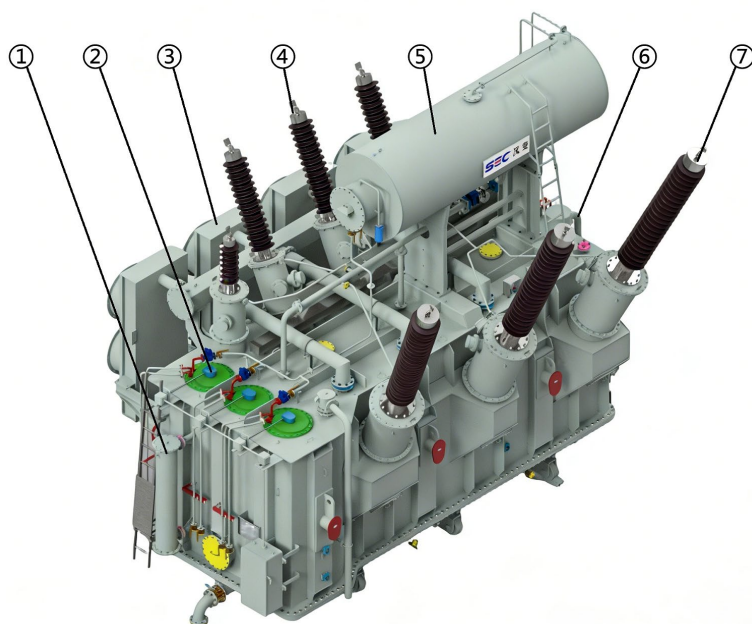


Description of the transformer type



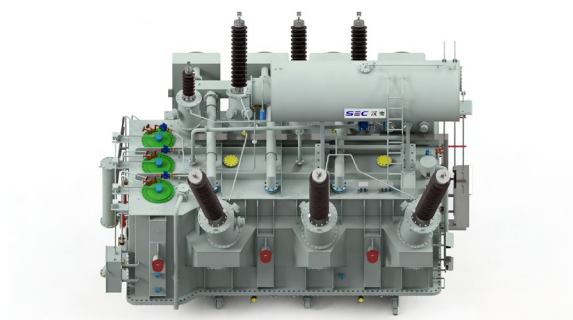
SSZ-63000/110

1. Conservator
2. Radiator
3. H.V. Bushing
4. L.V. Bushing
5. M.V. Bushing
6. H.V. On-load tap changer
7. Pressure relief valve
8. M.V. Off-load tap changer



OSFSZ-125000/220

- 1. Oil purification Machine
- 2. On-load tap changer
- 3. Oil circulating air cooler
- 4. M.V. Bushing
- 5. Conservator
- 6. Pressure relief valve
- 7. H.V. Bushing
- 8. L.V. Bushing



After Service >>>

- **Specialized Team:** A dedicated after-sales department with a clear division of duties to handle real-time user feedback.
- **Tailored Solutions:** Personalized services based on specific customer needs, offering a one-stop process from installation to delivery.
- **Technical Training:** Customers are welcome to visit our factory for hands-on training in equipment operation and maintenance.
- **Quality Tracking:** A regular return-visit system for long-term product tracking and customer feedback collection, driving continuous quality improvement.
- **Digital Management:** Utilizing modern management tools to record service information and enhance service quality.



International Standard >>>

Our products are designed and manufactured in full compliance with major international standards, including IEC, IEEE, ANSI, GOST, and others. We are firmly committed to implementing global benchmarks across all processes.

- Key Product Features:
- Low losses and low noise operation
- Extremely low partial discharge levels
- Strong short-circuit withstand capability
- Robust construction ensuring leak-free

Table I.4: Minimum Peak Efficiency Index (PEI) values for **liquid immersed** medium power transformers

Rated Power (kVA)	Tier 1 (1 July 2015)	Tier 2 (1 July 2021)
	Minimum Peak Efficiency Index (%)	
$3\,150 < S_r \leq 4\,000$	99,465	99,532
5 000	99,483	99,548
6 300	99,510	99,571
8 000	99,535	99,593
10 000	99,560	99,615
12 500	99,588	99,640
16 000	99,615	99,663
20 000	99,639	99,684
25 000	99,657	99,700
31 500	99,671	99,712
40 000	99,684	99,724

Table I.1: Maximum load and no-load losses (in W) for three-phase liquid-immersed medium power transformers with one winding with $U_m \leq 24$ kV and the other one with $U_m \leq 1,1$ kV

Rated Power (kVA)	Tier 1 (from 1 July 2015)		Tier 2 (from 1 July 2021)	
	Maximum load losses P_k (W) (*)	Maximum no-load losses P_o (W) (*)	Maximum load losses P_k (W) (*)	Maximum no-load losses P_o (W) (*)
≤ 25	C_k (900)	A_o (70)	A_k (600)	$A_o - 10\%$ (63)
50	C_k (1 100)	A_o (90)	A_k (750)	$A_o - 10\%$ (81)
100	C_k (1 750)	A_o (145)	A_k (1 250)	$A_o - 10\%$ (130)
160	C_k (2 350)	A_o (210)	A_k (1 750)	$A_o - 10\%$ (189)
250	C_k (3 250)	A_o (300)	A_k (2 350)	$A_o - 10\%$ (270)
315	C_k (3 900)	A_o (360)	A_k (2 800)	$A_o - 10\%$ (324)
400	C_k (4 600)	A_o (430)	A_k (3 250)	$A_o - 10\%$ (387)
500	C_k (5 500)	A_o (510)	A_k (3 900)	$A_o - 10\%$ (459)
630	C_k (6 500)	A_o (600)	A_k (4 600)	$A_o - 10\%$ (540)
800	C_k (8 400)	A_o (650)	A_k (6 000)	$A_o - 10\%$ (585)
1 000	C_k (10 500)	A_o (770)	A_k (7 600)	$A_o - 10\%$ (693)
1 250	B_k (11 000)	A_o (950)	A_k (9 500)	$A_o - 10\%$ (855)
1 600	B_k (14 000)	A_o (1 200)	A_k (12 000)	$A_o - 10\%$ (1080)
2 000	B_k (18 000)	A_o (1 450)	A_k (15 000)	$A_o - 10\%$ (1 305)
2 500	B_k (22 000)	A_o (1 750)	A_k (18 500)	$A_o - 10\%$ (1 575)
3 150	B_k (27 500)	A_o (2 200)	A_k (23 000)	$A_o - 10\%$ (1 980)

(*) Maximum losses for kVA ratings that fall in between the ratings given in Table I.1 shall be obtained by linear interpolation.

Table I.7: Minimum Peak Efficiency Index requirements for liquid immersed large power transformers

Rated Power (MVA)	Tier 1 (1 July 2015)	Tier 2 (1 July 2021)
	Minimum Peak Efficiency Index (%)	
≤ 4	99,465	99,532
5	99,483	99,548
6,3	99,510	99,571
8	99,535	99,593
10	99,560	99,615
12,5	99,588	99,640
16	99,615	99,663
20	99,639	99,684
25	99,657	99,700
31,5	99,671	99,712
40	99,684	99,724
50	99,696	99,734
63	99,709	99,745
80	99,723	99,758
≥ 100	99,737	99,770

Table I.2: Maximum load and no-load losses (in W) for three -phase dry-type medium power transformers with one winding with $U_m \leq 24$ kV and the other one with $U_m \leq 1,1$ kV.

Rated Power (kVA)	Tier 1 (1 July 2015)		Tier 2 (1 July 2021)	
	Maximum load losses P_k (W) (*)	Maximum no-load losses P_o (W) (*)	Maximum load losses P_k (W) (*)	Maximum no-load losses P_o (W) (*)
≤ 50	B_k (1 700)	A_o (200)	A_k (1 500)	$A_o - 10\%$ (180)
100	B_k (2 050)	A_o (280)	A_k (1 800)	$A_o - 10\%$ (252)
160	B_k (2 900)	A_o (400)	A_k (2 600)	$A_o - 10\%$ (360)
250	B_k (3 800)	A_o (520)	A_k (3 400)	$A_o - 10\%$ (468)
400	B_k (5 500)	A_o (750)	A_k (4 500)	$A_o - 10\%$ (675)
630	B_k (7 600)	A_o (1 100)	A_k (7 100)	$A_o - 10\%$ (990)
800	A_k (8 000)	A_o (1 300)	A_k (8 000)	$A_o - 10\%$ (1 170)
1 000	A_k (9 000)	A_o (1 550)	A_k (9 000)	$A_o - 10\%$ (1 395)
1 250	A_k (11 000)	A_o (1 800)	A_k (11 000)	$A_o - 10\%$ (1 620)
1 600	A_k (13 000)	A_o (2 200)	A_k (13 000)	$A_o - 10\%$ (1 980)
2 000	A_k (16 000)	A_o (2 600)	A_k (16 000)	$A_o - 10\%$ (2 340)
2 500	A_k (19 000)	A_o (3 100)	A_k (19 000)	$A_o - 10\%$ (2 790)
3 150	A_k (22 000)	A_o (3 800)	A_k (22 000)	$A_o - 10\%$ (3 420)

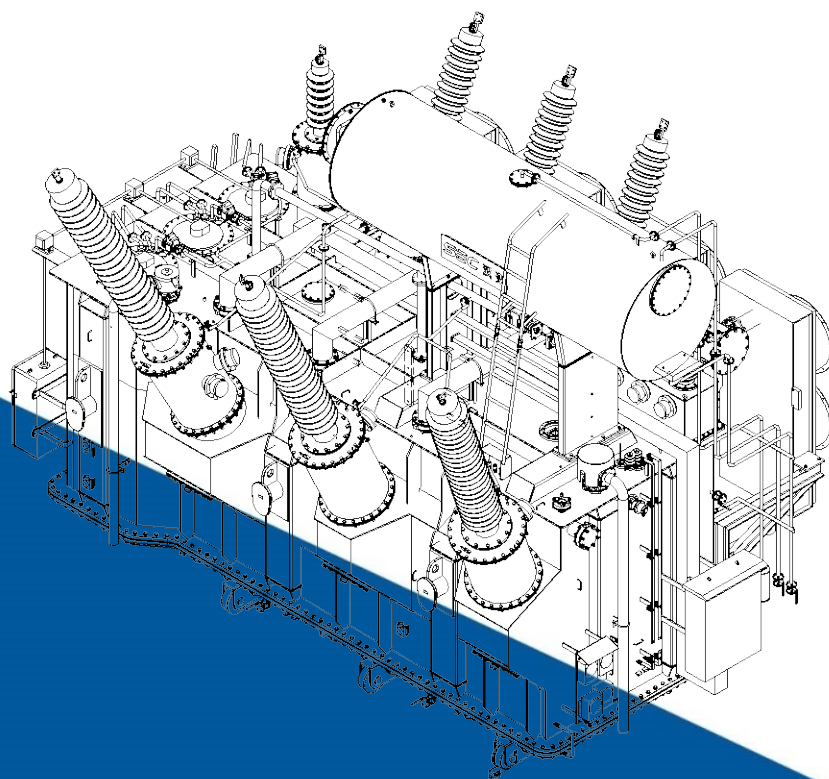
(*) Maximum losses for kVA ratings that fall in between the ratings given in Table I.2 shall be obtained by linear interpolation.

Table I.5: Minimum Peak Efficiency Index (PEI) values for **dry type** medium power transformers

Rated Power (kVA)	Tier 1 (1 July 2015)	Tier 2 (1 July 2021)
	Minimum Peak Efficiency Index (%)	
$3\,150 < S_r \leq 4\,000$	99,348	99,382
5 000	99,354	99,387
6 300	99,356	99,389
8 000	99,357	99,390
$\geq 10\,000$	99,357	99,390

Table I.8: Minimum Peak Efficiency Index requirements for dry-type large power transformers

Rated Power (MVA)	Tier 1 (1 July 2015)	Tier 2 (1 July 2021)
	Minimum Peak Efficiency Index (%)	
≤ 4	99,158	99,225
5	99,200	99,265
6,3	99,242	99,303
8	99,298	99,356
10	99,330	99,385
12,5	99,370	99,422
16	99,416	99,464
20	99,468	99,513
25	99,521	99,564
31,5	99,551	99,592
40	99,567	99,607
50	99,585	99,623
≥ 63	99,590	99,626



Shaanxi Hanzhong Transformer Co., Ltd.

Hanzhong Xinhuan Dry Type Transformer Co., Ltd.

Shaanxi Hanzhong Zhiyuan Special Transformer Co., Ltd.

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