



干式变压器  
DRY-TYPE TRANSFORMER

## 产品概述

### Product Overview

公司引进欧洲先进技术,通过专利技术和专用软件优化设计环氧树脂浇注的干式变压器。该产品铁心采用优质取向冷轧硅钢片材料,由德国GEORG公司的阶梯接缝铁心自动生产线制造并采用阶叠接缝新工艺,使铁心的空载性能大大提高。线圈采用美国huntsman环氧树脂,由德国HEDRICH真空浇注设备完成线圈浇注过程。该产品树脂渗透性好、无气泡,因而局放量小、高、低压线圈紧密配合具有较强的结构强度,从而保证具有较强的抗短路能力和抗震动能力。该产品在正常使用条件下,使用寿命为30年,在运行寿命期内,按正常使用条件产品不会因温度变化导致线圈表面龟裂。

We adopt the advanced technology imported from Europe, patented technology, specialised software to optimize the design for cast resin dry type transformer. The core is made of cold-rolled grain-oriented silicon steel sheet which cut in step-lap by GEORG Germany TBA core cutting lines and laminated by the method of fifth-order step-by-step stacking technology, enabling the no-load performance of the core to improve greatly. The epoxy resin from American HUNTSMAN is adopted for the windings which casted in the vacuum resin casting machine imported from HEDRICH, Germany. The winding material ensures good permeability, no bubbles occur, which leads to minimum partial discharge. The HV and LV winding mate with each other tightly, which ensures solid strength of structure and capability to withstand short circuit and vibration. Under normal service condition, the service life of dry type transformer is 30 years. No crack will form on the surface of transformer winding due to temperature variation as long as the transformer runs under normal service condition.

## 产品特点

### Product Features

#### 低噪声低损耗

- 1、变压器的噪声源自铁心,本公司应用国内首家引进的德国GEORG公司阶梯接缝铁心自动生产线,采用Step-Lap新工艺,改善了铁心内部的磁路分布,以其特有的设备优势,降低了产品的噪声。
- 2、产品选用优质硅钢片,选取较低的磁密使其远离饱和点,使得铁心中的谐波量减少,降低了噪声及空载损耗。
- 3、所有的夹紧部位均采用硅橡胶及弹性元件缓冲以减少振幅,降低噪声,同时在铁心外表面经固化处理,起到了隔音作用。

#### 难燃不污染环境

- 1、优质树脂所组成的固体绝缘具有很高的电气强度(击穿电压不小于34kV/mm),局部放电量小,可控制在 $\leq 5\text{pC}$ 范围内。

#### Low-noise&Low-loss

- 1、Transformer noise comes from the core. The core is made of high quality cold-rolled grain-oriented silicon steel sheet. The lamination sheets are produced by automatic step-lap core lamination line from GEORG, Germany. Such method improves the distribution of magnetic circuit and result in lowering the noise level.
- 2、The transformer adopts the high quality silicon steel sheet whose low magnetic density stays away from its saturation point and decreases the harmonic in the core, and lowers the noise and no-load loss of the transformer.
- 3、All parts used for clamping apply silicon rubber and flexible elements as buffers in order to reduce the amplitude and noise of components, while the surface of core is solidifying treated, which plays a role of sound-proof.

#### Non-flammable, no pollution to environment

- 1、Solid electrical insulation composed of high quality resin could provide with high electrical strength (breakdown voltage $\geq 34\text{kV/mm}$ ) and partial discharge can be controlled in the range of  $\leq 5\text{pC}$ .

- 2、由于干式变压器所用的树脂材料在燃烧时产生的热量极小(约65mJ/kg), 因此具有阻燃自熄的特点,不会因短路产生电弧, 高热下树脂不会产生有毒有害气体。
- 3、线圈不吸潮, 铁心表面固化处理, 因此可在空气相对湿度100%的环境下可靠运行, 间断运行无需去潮处理。
- 4、干式变压器同时还具有过载能力强, 热稳定性好、体积小、重量轻、安装简单方便, 免维护等优点。广泛用于高层建筑、商业中心、机场、车站、码头、地铁、工厂和地下配电站等。

### 强迫冷却

干式变压器的冷却方式分为自然空气冷却(AN)和强迫空气冷却(AF)。自然空气冷却(AN)时, 正常使用条件下, 变压器可连续输出100%的额定容量。强迫空气冷却(AF)时, 正常使用条件下, 变压器短时输出容量可提高30%, 适用于各种急救过负荷或断续性过负荷运行。

### 温控系统

温控系统由温度控制器和安装在产品最热点的Pt100铂电阻测温传感器构成。温度控制器具有温度显示和控制的功能, 对变压器的各相温度巡回显示和控制, 若由于过载运行或故障引起变压器绕组温度过高, 温度控制器能发出报警信号; 当绕组温度超过安全值时能发出跳闸信号。采用强迫风冷时则由温度控制器根据绕组温度自动启停风机。可按用户需要提供变压器绕组及铁心的温度监测, 4~20mA模拟量输出或RS485计算机接口, 适应现代电力运营自动化管理需要。

### 保护外壳

外壳防护等级的分类根据GB4028标准。IP20外壳可防止直径大于12mm的物体进入壳内, 给带电部分提供安全屏障。IP23外壳可防止与垂线成60°角以内的水滴入(采用IP23外壳后, 变压器冷却能力下降, 容量降低约5%)。

- 2、As the composite materials resin used in dry-type transformer generate very little heat when in combustion (about 65mJ/kg). The transformer has the feature of fire-retardant and self-extinguishing, so no arc will occur because of short circuit, and no toxic or harmful smoke or dusts will be produced at high temperature.
- 3、The coil is free of moisture and core is solidifying treated. The transformer can be in continuous reliable operation in circumstance of 100% relative humidity, and no need to interrupt its service to eliminate moisture.
- 4、Dry type transformer also has great advantages such as strong overload capability, good thermal stability, compact size, light weight, easy installation, maintenance-free and so on. Dry type transformer covers wide fields of high-rise buildings, commercial centers, airports, stations, ports, subway, factories and underground power distribution stations.

### Cooling method

Cooling method of dry type transformer is divided into air natural cooling (AN) and air forced cooling (AF). Under the normal conditions, when transformer under air natural cooling (AN), it can output 100% rated capacity continuously. When transformer under air forced cooling (AF), its output capacity can be increased by 30% which is suitable for all kinds of emergency, overload or intermittent load operation

### Temperature control system

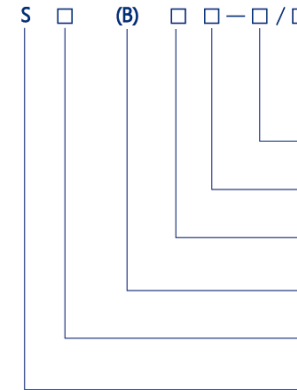
Temperature control system consists of temperature controller and Pt100 temperature sensor located at the hottest point of transformer. Temperature controller has function of temperature display and control of each phase. It will give off trip signal when coil temperature is over limited. Under air forced cooling condition, the temperature controller can automatically start or stop fans according to the winding temperature. The temperature monitoring of windings and core, 4~20mA analog output or RS485 computer communication can be provided according to kinds of requests from clients to meet the need of modern electric power operation automation management.

### Protection enclosure

The classification of enclosure degree of protection is in accord with the GB4028 Standard. IP20 enclosure can prevent the object whose diameter is more than 12mm into the enclosure, giving security barrier to the live parts. IP23 enclosure can prevent water drops in angle of 60° into the enclosure. (The cooling capability will be reduced 5% when IP23 enclosure adopted.)

## 型号说明

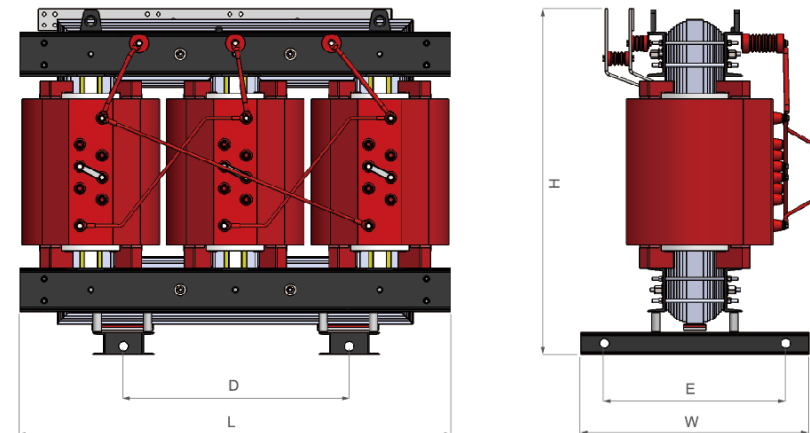
### Model coding



- 系统标称电压(kV)  
System Nominal Voltage(kV)
- 额定容量(kVA)  
Rated Capacity (kVA)
- 损耗水平代号  
Code For Performance Level
- Z : 有载调压    无 : 无载调压  
Z : OLTC        N/A : OCTC
- 低压箔式  
L.V. Foil Type
- C : 浇注式        G : 空气干式  
C : Cast Type    G : Air Dry Type
- 三相  
Three Phase

## 外形图

### Outline Drawing



主要技术参数  
Technical Parameters

干式配电变压器主要技术数据

额定频率 Rated Frequency	50HZ		
额定电压 Rated Voltage	高压(H.V) 6kV、6.3kV、10kV、10.5kV、11kV、20kV、35kV 低压(L.V) 0.4kV		
分接范围 Tap Range	±2×2.5%、±5%		
联结组标号 Vector Group	Dyn11、Yyn0		
绝缘水平 Insulation Level	6/0.4kV LI60AC25/AC3kV 20/0.4kV LI125AC50/AC3kV	10/0.4kV LI75AC35/AC3kV 35/0.4kV LI170AC70/AC3kV	

10kV树脂绝缘干式配电变压器技术参数和外形尺寸

10kV Technical Parameters and Overall Dimensions for 10kV Cast Resin Dry-type Distribution Transformer

容量 Capacity (kV·A)	型号 Model	电压组合 Voltage		空载损耗 No load loss (kW)	负载损耗 Load loss (kW) 120°C	空载电流 No load current (%)	短路阻抗 Short- circuit impedance (%)	总重 Total weight (kg)	本体尺寸 Dimensions L×W×H (mm)	带外壳尺寸 Enclosure dimensions 长×宽×高 (mm)	本体轨距 Gauge distance D×E (mm)
		高压 (kV) H.V	低压 (kV) L.V								
30	SC10-30/10	6 6.3 10 10.5	0.4	0.190	0.710	2.0	4.0	300	870×600×858	1500×1100×2200	550×400
	SC11-30/10			0.170	0.710	2.0	4.0	310	870×600×858	1500×1100×2200	550×400
	SC12-30/10			0.150	0.710	2.0	4.0	320	870×600×858	1500×1100×2200	550×400
	SC13-30/10			0.135	0.640	2.0	4.0	340	900×600×970	1500×1100×2200	550×400
	SCH15-30/10			0.070	0.710	1.6	4.0	640	1200×1000×750	1700×1350×2200	550×940
50	SC10-50/10			0.270	1.00	2.0	4.0	380	880×600×925	1500×1100×2200	550×400
	SC11-50/10			0.240	1.00	2.0	4.0	390	880×600×925	1500×1100×2200	550×400
	SC12-50/10			0.215	1.00	2.0	4.0	405	880×600×925	1500×1100×2200	550×400
	SC13-50/10			0.195	0.900	2.0	4.0	420	980×600×1050	1500×1100×2200	550×400
	SCH15-50/10			0.090	1.00	1.4	4.0	720	1200×1000×790	1700×1350×2200	550×940
80	SC10-80/10	0.370	1.38	1.5	4.0	500	960×600×1010	1500×1100×2200	550×400		
	SC11-80/10	0.340	1.38	1.5	4.0	510	960×600×1010	1500×1100×2200	550×400		
	SC12-80/10	0.295	1.38	1.5	4.0	520	960×600×1010	1500×1100×2200	550×400		
	SC13-80/10	0.265	1.24	1.5	4.0	540	1060×600×1150	1500×1100×2200	550×400		
	SCH15-80/10	0.120	1.38	1.3	4.0	840	1300×1100×830	1700×1350×2200	550×1040		
100	SC10-100/10	0.400	1.57	1.5	4.0	550	970×600×1010	1500×1100×2200	550×400		
	SC11-100/10	0.360	1.57	1.5	4.0	560	970×600×1010	1500×1100×2200	550×400		
	SC12-100/10	0.320	1.57	1.5	4.0	570	970×600×1010	1500×1100×2200	550×400		
	SC13-100/10	0.290	1.41	1.5	4.0	590	1070×600×1160	1500×1100×2200	550×400		
	SCH15-100/10	0.130	1.57	1.2	4.0	920	1300×1100×860	1700×1350×2200	550×1040		

容量 Capacity (kV·A)	型号 Model	电压组合 Voltage		空载损耗 No load loss (kW)	负载损耗 Load loss (kW) 120°C	空载电流 No load current (%)	短路阻抗 Short- circuit impedance (%)	总重 Total weight (kg)	本体尺寸 Dimensions L×W×H (mm)	带外壳尺寸 Enclosure dimensions 长×宽×高 (mm)	本体轨距 Gauge distance D×E (mm)
		高压 (kV) H.V	低压 (kV) L.V								
125	SC10-125/10	6 6.3 10 10.5	0.4	0.470	1.85	1.3	4.0	700	1000×600×1050	1500×1100×2200	550×400
	SC11-125/10			0.420	1.85	1.3	4.0	710	1000×600×1050	1500×1100×2200	550×400
	SC12-125/10			0.375	1.85	1.3	4.0	720	1000×600×1050	1500×1100×2200	550×400
	SC13-125/10			0.340	1.67	1.3	4.0	740	1100×600×1200	1500×1100×2200	550×400
	SCH15-125/10			0.150	1.85	1.1	4.0	1050	1350×1100×900	1700×1350×2200	660×1040
160	SC10-160/10			0.540	2.13	1.3	4.0	770	1030×680×1098	1500×1100×2200	550×550
	SC11-160/10			0.485	2.13	1.3	4.0	780	1030×680×1098	1500×1100×2200	550×550
	SC12-160/10			0.430	2.13	1.3	4.0	790	1030×680×1098	1500×1100×2200	550×550
	SC13-160/10			0.385	1.92	1.3	4.0	810	1130×680×1240	1500×1100×2200	550×550
	SCH15-160/10			0.170	2.13	1.1	4.0	1175	1350×1100×900	1700×1350×2200	660×1040
200	SC10-200/10			0.620	2.53	1.1	4.0	850	1060×720×1100	1500×1100×2200	550×550
	SC11-200/10			0.560	2.53	1.1	4.0	860	1060×720×1100	1500×1100×2200	550×550
	SC12-200/10			0.495	2.53	1.1	4.0	870	1060×720×1100	1500×1100×2200	550×550
	SC13-200/10			0.445	2.28	1.1	4.0	890	1160×720×1250	1500×1100×2200	550×550
	SCH15-200/10			0.200	2.53	1.0	4.0	1475	1380×1100×975	1500×1100×2200	660×1040
250	SC10-250/10	0.720	2.76	1.1	4.0	1010	1120×720×1145	1500×1100×2200	550×550		
	SC11-250/10	0.650	2.76	1.1	4.0	1020	1120×720×1145	1500×1100×2200	550×550		
	SC12-250/10	0.575	2.76	1.1	4.0	1030	1120×720×1145	1500×1100×2200	550×550		
	SC13-250/10	0.515	2.49	1.1	4.0	1050	1220×720×1300	1500×1100×2200	550×550		
	SCH15-250/10	0.230	2.76	1.0	4.0	1505	1410×1100×995	1800×1350×2200	660×1040		
315	SCB10-315/10	0.880	3.47	1.0	4.0	1190	1140×760×935	1700×1300×2200	550×550		
	SCB11-315/10	0.790	3.47	1.0	4.0	1200	1140×760×935	1700×1300×2200	550×550		
	SCB12-315/10	0.705	3.47	1.0	4.0	1210	1140×760×935	1700×1300×2200	550×550		
	SCB13-315/10	0.635	3.13	1.0	4.0	1250	1240×760×1260	1700×1300×2200	550×550		
	SCH15-315/10	0.280	3.47	0.9	4.0	1785	1540×1100×1030	1900×1400×2200	820×1040		
400	SCB10-400/10	0.980	3.99	1.0	4.0	1365	1140×830×974	1700×1300×2200	550×550		
	SCB11-400/10	0.880	3.99	1.0	4.0	1380	1140×830×974	1700×1300×2200	550×550		
	SCB12-400/10	0.785	3.99	1.0	4.0	1405	1140×830×974	1700×1300×2200	550×550		
	SCB13-400/10	0.705	3.59	1.0	4.0	1425	1260×830×1240	1700×1300×2200	550×550		
	SCH15-400/10	0.310	3.99	0.8	4.0	2150	1604×1100×1096	2100×1500×2200	820×1040		
500	SCB10-500/10	1.16	4.88	1.0	4.0	1470	1185×870×1045	1700×1350×2200	660×660		
	SCB11-500/10	1.05	4.88	1.0	4.0	1490	1185×870×1045	1700×1350×2200	660×660		
	SCB12-500/10	0.930	4.88	1.0	4.0	1510	1185×870×1045	1700×1350×2200	660×660		
	SCB13-500/10	0.835	4.39	1.0	4.0	1530	1280×870×1200	1700×1350×2200	660×660		
	SCH15-500/10	0.360	4.88	0.8	4.0	2385	1650×1100×1230	2100×1500×2200	820×1040		
630	SCB10-630/10	1.34	5.88	0.85	4.0	1745	1230×880×1085	1700×1350×2200	660×660		
	SCB11-630/10	1.21	5.88	0.85	4.0	1770	1230×880×1085	1700×1350×2200	660×660		
	SCB12-630/10	1.07	5.88	0.85	4.0	1790	1230×880×1085	1700×1350×2200	660×660		
	SCB13-630/10	0.965	5.29	0.85	4.0	1805	1330×880×1230	1700×1350×2200	660×660		
	SCH15-630/10	0.420	5.88	0.70	4.0	2600	1620×1200×1225	2100×1500×2200	820×1140		

容量 Capacity (kV·A)	型号 Model	电压组合 Voltage		空载损耗 No load loss (kW)	负载损耗 Load loss (kW) 120°C	空载电流 No load current (%)	短路阻抗 Short- circuit impedance (%)	总重 Total weight (kg)	本体尺寸 Dimensions L×W×H (mm)	带外壳尺寸 Enclosure dimensions 长×宽×高 (mm)	本体轨距 Gauge distance D×E (mm)
		高压 (kV) H.V	低压 (kV) L.V								
630	SCB10-630/10	6 6.3 10 10.5	0.4	1.30	5.96	0.85	6.0	1700	1370×880×1020	1700×1350×2200	660×660
	SCB11-630/10			1.17	5.96	0.85	6.0	1720	1370×880×1020	1700×1350×2200	660×660
	SCB12-630/10			1.04	5.96	0.85	6.0	1740	1370×880×1020	1700×1350×2200	660×660
	SCB13-630/10			0.935	5.37	0.85	6.0	1760	1470×880×1180	1700×1350×2200	660×660
	SCBH15-630/10			0.410	5.96	0.70	6.0	2600	1620×1200×1225	2100×1500×2200	820×1140
800	SCB10-800/10			1.52	6.96	0.85	6.0	2030	1400×900×1080	1900×1350×2200	820×660
	SCB11-800/10			1.37	6.96	0.85	6.0	2050	1400×900×1080	1900×1350×2200	820×660
	SCB12-800/10			1.22	6.96	0.85	6.0	2070	1400×900×1080	1900×1350×2200	820×660
	SCB13-800/10			1.10	6.27	0.85	6.0	2090	1500×900×1130	1900×1350×2200	820×660
	SCBH15-800/10			0.480	6.96	0.70	6.0	3230	1780×1200×1285	2100×1500×2200	820×1140
1000	SCB10-1000/10			1.77	8.13	0.85	6.0	2440	1470×900×1115	1900×1350×2200	820×660
	SCB11-1000/10			1.59	8.13	0.85	6.0	2460	1470×900×1115	1900×1350×2200	820×660
	SCB12-1000/10			1.42	8.13	0.85	6.0	2480	1470×900×1115	1900×1350×2200	820×660
	SCB13-1000/10			1.28	7.32	0.85	6.0	2500	1570×900×1215	1900×1350×2200	820×660
	SCBH15-1000/10			0.550	8.13	0.60	6.0	3735	1865×1200×1430	2300×1500×2200	1070×1140
1250	SCB10-1250/10	2.09	9.69	0.85	6.0	2840	1510×900×1225	2100×1500×2200	820×660		
	SCB11-1250/10	1.88	9.69	0.85	6.0	2860	1510×900×1225	2100×1500×2200	820×660		
	SCB12-1250/10	1.67	9.69	0.85	6.0	2870	1510×900×1225	2100×1500×2200	820×660		
	SCB13-1250/10	1.51	8.72	0.85	6.0	2920	1610×900×1325	2100×1500×2200	820×660		
	SCBH15-1250/10	0.650	9.69	0.60	6.0	4530	2000×1200×1480	2500×1500×2200	1070×1140		
1600	SCB10-1600/10	2.45	11.7	0.85	6.0	3570	1620×900×1320	2100×1500×2200	820×660		
	SCB11-1600/10	2.21	11.7	0.85	6.0	3590	1620×900×1320	2100×1500×2200	820×660		
	SCB12-1600/10	1.96	11.7	0.85	6.0	3620	1620×900×1320	2100×1500×2200	820×660		
	SCB13-1600/10	1.77	10.6	0.85	6.0	3650	1720×900×1420	2100×1500×2200	820×660		
	SCBH15-1600/10	0.760	11.7	0.60	6.0	5370	2130×1200×1610	2500×1500×2200	1070×1140		
2000	SCB10-2000/10	3.05	14.4	0.70	6.0	4105	1680×980×1390	2300×1500×2200	820×660		
	SCB11-2000/10	2.75	14.4	0.70	6.0	4135	1680×980×1390	2300×1500×2200	820×660		
	SCB12-2000/10	2.44	14.4	0.70	6.0	4160	1680×980×1390	2300×1500×2200	820×660		
	SCB13-2000/10	2.20	13.0	0.70	6.0	4185	1780×980×1480	2300×1500×2200	820×660		
	SCBH15-2000/10	1.00	14.5	0.50	6.0	8150	2280×1300×2100	2600×1600×2200	1070×1240		
2500	SCB10-2500/10	3.60	17.1	0.70	6.0	5315	1900×1020×1725	2300×1600×2200	1070×820		
	SCB11-2500/10	3.24	17.1	0.70	6.0	5340	1900×1020×1725	2300×1600×2200	1070×820		
	SCB12-2500/10	2.88	17.1	0.70	6.0	5360	1900×1020×1725	2300×1600×2200	1070×820		
	SCB13-2500/10	2.59	15.5	0.70	6.0	5395	2000×1020×1825	2300×1600×2200	1070×820		
	SCBH15-2500/10	1.20	17.2	0.50	6.0	7640	2170×1320×1935	2600×1600×2200	1070×1260		

容量 Capacity (kV·A)	型号 Model	电压组合 Voltage		空载损耗 No load loss (kW)	负载损耗 Load loss (kW) 120°C	空载电流 No load current (%)	短路阻抗 Short- circuit impedance (%)	总重 Total weight (kg)	本体尺寸 Dimensions L×W×H (mm)	带外壳尺寸 Enclosure dimensions 长×宽×高 (mm)	本体轨距 Gauge distance D×E (mm)
		高压 (kV) H.V	低压 (kV) L.V								
1600	SCB10-1600/10	6 6.3 10 10.5	0.4	2.45	12.9	0.85	8.0	3570	1620×900×1320	2100×1500×2200	820×660
	SCB11-1600/10			2.21	12.9	0.85	8.0	3570	1620×900×1320	2100×1500×2200	820×660
	SCB12-1600/10			1.96	12.9	0.85	8.0	3570	1620×900×1320	2100×1500×2200	820×660
	SCB13-1600/10			1.77	11.6	0.85	8.0	3650	1720×900×1420	2100×1500×2200	820×660
	SCBH15-1600/10			0.760	13.0	0.60	8.0	5370	2130×1200×1610	2500×1500×2200	1070×1140
2000	SCB10-2000/10			3.05	15.9	0.70	8.0	4105	1680×980×1390	2300×1500×2200	820×660
	SCB11-2000/10			2.75	15.9	0.70	8.0	4105	1680×980×1390	2300×1500×2200	820×660
	SCB12-2000/10			2.44	15.9	0.70	8.0	4105	1680×980×1390	2300×1500×2200	820×660
	SCB13-2000/10			2.20	14.3	0.70	8.0	4185	1780×980×1480	2300×1500×2200	820×660
	SCBH15-2000/10			1.00	16.0	0.50	8.0	8150	2280×1300×2100	2600×1600×2200	1070×1240
2500	SCB10-2500/10			3.60	18.8	0.70	8.0	5315	1900×1020×1725	2300×1600×2200	1070×820
	SCB11-2500/10			3.24	18.8	0.70	8.0	5315	1900×1020×1725	2300×1600×2200	1070×820
	SCB12-2500/10			2.88	18.8	0.70	8.0	5315	1900×1020×1725	2300×1600×2200	1070×820
	SCB13-2500/10			2.59	16.9	0.70	8.0	5395	2000×1020×1825	2300×1600×2200	1070×820
	SCBH15-2500/10			1.20	18.9	0.50	8.0	7640	2170×1320×1935	2600×1600×2200	1070×1260

### 20kV树脂绝缘干式配电变压器技术参数和外形尺寸

Technical Parameters and Overall Dimensions for 20kV Cast Resin Dry-type Distribution Transformer

容量 Capacity (kV·A)	型号 Model	电压组合 Voltage		空载损耗 No load loss (kW)	负载损耗 Load loss (kW) 120°C	空载电流 No load current (%)	短路阻抗 Short- circuit impedance (%)	总重 Total weight (kg)	本体尺寸 Dimensions L×W×H (mm)	带外壳尺寸 Enclosure dimensions 长×宽×高 (mm)	本体轨距 Gauge distance D×E (mm)
		高压 (kV) H.V	低压 (kV) L.V								
50	SC10-50/20	20 20(10)	0.4	0.340	1.23	2.0	6.0	480	1180×600×940	1700×1350×2200	550×400
	SC11-50/20			0.310	1.23	2.0	6.0	490	1180×600×940	1700×1350×2200	550×400
	SC12-50/20			0.275	1.23	2.0	6.0	510	1180×600×940	1700×1350×2200	550×400
	SC13-50/20			0.275	1.10	2.0	6.0	530	1280×600×1040	1700×1350×2200	550×400
	SC10-100/20			0.540	1.99	1.8	6.0	650	1250×600×1225	1700×1350×2200	550×400
100	SC11-100/20			0.490	1.99	1.8	6.0	660	1250×600×1225	1700×1350×2200	550×400
	SC12-100/20			0.435	1.99	1.8	6.0	680	1250×600×1225	1700×1350×2200	550×400
	SC13-100/20			0.435	1.79	1.8	6.0	700	1350×600×1325	1700×1350×2200	550×400
	SC10-160/20			0.670	2.47	1.5	6.0	950	1280×600×1230	1700×1350×2200	550×400
	SC11-160/20			0.610	2.47	1.5	6.0	960	1280×600×1230	1700×1350×2200	550×400
160	SC12-160/20			0.540	2.47	1.5	6.0	980	1280×600×1230	1700×1350×2200	550×400
	SC13-160/20			0.540	2.22	1.5	6.0	1000	1380×600×1330	1700×1350×2200	550×400
	SC10-200/20			0.730	2.94	1.5	6.0	1200	1360×720×1250	1900×1350×2200	550×550
	SC11-200/20			0.660	2.94	1.5	6.0	1220	1360×720×1250	1900×1350×2200	550×550
	SC12-200/20			0.585	2.94	1.5	6.0	1240	1360×720×1250	1900×1350×2200	550×550
SC13-200/20	0.585	2.65	1.5	6.0	1250	1460×720×1350	1900×1350×2200	550×550			

容量 Capacity (kV·A)	型号 Model	电压组合 Voltage		空载损耗 No load loss (kW)	负载损耗 Load loss (kW) 120°C	空载电流 No load current (%)	短路阻抗 Short- circuit impedance (%)	总重 Total weight (kg)	本体尺寸 Dimensions L×W×H (mm)	带外壳尺寸 Enclosure dimensions 长×宽×高 (mm)	本体间距 Gauge distance D×E (mm)
		高压 (kV) H.V	低压 (kV) L.V								
250	SC10-250/20	20 20(10)	0.4	0.840	3.42	1.3	6.0	1430	1390×720×1330	1900×1350×2200	550×550
	SC11-250/20			0.760	3.42	1.3	6.0	1450	1390×720×1330	1900×1350×2200	550×550
	SC12-250/20			0.675	3.42	1.3	6.0	1470	1390×720×1330	1900×1350×2200	550×550
	SC13-250/20			0.675	3.08	1.3	6.0	1480	1490×720×1430	1900×1350×2200	550×550
315	SCB10-315/20			0.970	4.08	1.3	6.0	1500	1410×720×1370	2100×1400×2200	550×550
	SCB11-315/20			0.875	4.08	1.3	6.0	1520	1410×720×1370	2100×1400×2200	550×550
	SCB12-315/20			0.780	4.08	1.3	6.0	1540	1410×720×1370	2100×1400×2200	550×550
	SCB13-315/20			0.780	3.67	1.3	6.0	1550	1510×720×1470	2100×1400×2200	550×550
	400			SCB10-400/20	1.150	4.84	1.1	6.0	1680	1450×720×1400	2100×1400×2200
SCB11-400/20				1.04	4.84	1.1	6.0	1690	1450×720×1400	2100×1400×2200	550×550
SCB12-400/20				0.920	4.84	1.1	6.0	1710	1450×720×1400	2100×1400×2200	550×550
SCB13-400/20				0.920	4.35	1.1	6.0	1730	1550×720×1500	2100×1400×2200	550×550
500	SCB10-500/20	1.35	5.79	1.1	6.0	1900	1480×830×1450	2100×1400×2200	660×660		
	SCB11-500/20	1.22	5.79	1.1	6.0	1920	1480×830×1450	2100×1400×2200	660×660		
	SCB12-500/20	1.08	5.79	1.1	6.0	1940	1480×830×1450	2100×1400×2200	660×660		
	SCB13-500/20	1.08	5.21	1.1	6.0	1980	1580×830×1550	2100×1400×2200	660×660		
630	SCB10-630/20	1.53	6.84	1.0	6.0	2200	1500×830×1495	2100×1500×2200	820×660		
	SCB11-630/20	1.38	6.84	1.0	6.0	2220	1500×830×1495	2100×1500×2200	820×660		
	SCB12-630/20	1.23	6.84	1.0	6.0	2240	1500×830×1495	2100×1500×2200	820×660		
	SCB13-630/20	1.23	6.15	1.0	6.0	2280	1600×830×1595	2100×1500×2200	820×660		
800	SCB10-800/20	1.75	8.26	1.0	6.0	3100	1630×830×1655	2300×1500×2200	820×660		
	SCB11-800/20	1.58	8.26	1.0	6.0	3120	1630×830×1655	2300×1500×2200	820×660		
	SCB12-800/20	1.40	8.26	1.0	6.0	3140	1630×830×1655	2300×1500×2200	820×660		
	SCB13-800/20	1.40	7.43	1.0	6.0	3180	1730×830×1755	2300×1500×2200	820×660		
1000	SCB10-1000/20	2.07	9.78	0.85	6.0	3500	1700×830×1680	2300×1500×2200	820×660		
	SCB11-1000/20	1.86	9.78	0.85	6.0	3520	1700×830×1680	2300×1500×2200	820×660		
	SCB12-1000/20	1.65	9.78	0.85	6.0	3560	1700×830×1680	2300×1500×2200	820×660		
	SCB13-1000/20	1.65	8.80	0.85	6.0	3580	1800×830×1780	2300×1500×2200	820×660		
	1250	SCB10-1250/20	2.38	11.5	0.85	6.0	3600	1720×900×1750	2400×1500×2200	820×660	
SCB11-1250/20		2.14	11.5	0.85	6.0	3620	1720×900×1750	2400×1500×2200	820×660		
SCB12-1250/20		1.90	11.5	0.85	6.0	3640	1720×900×1750	2400×1500×2200	820×660		
SCB13-1250/20		1.90	10.4	0.85	6.0	3680	1820×900×1850	2400×1500×2200	820×660		
1600	SCB10-1600/20	2.79	13.8	0.85	6.0	4600	1880×920×1940	2500×1600×2200	820×660		
	SCB11-1600/20	2.52	13.8	0.85	6.0	4620	1880×920×1940	2500×1600×2200	820×660		
	SCB12-1600/20	2.23	13.8	0.85	6.0	4650	1880×920×1940	2500×1600×2200	820×660		
	SCB13-1600/20	2.23	12.4	0.85	6.0	4680	1980×920×2040	2500×1600×2200	820×660		
	2000	SCB10-2000/20	3.24	16.3	0.70	6.0	5260	2100×960×1980	2700×1600×2200	1070×820	
SCB11-2000/20		2.92	16.3	0.70	6.0	5280	2100×960×1980	2700×1600×2200	1070×820		
SCB12-2000/20		2.59	16.3	0.70	6.0	5300	2100×960×1980	2700×1600×2200	1070×820		
SCB13-2000/20		2.59	14.7	0.70	6.0	5340	2200×960×2080	2700×1600×2200	1070×820		
2500	SCB10-2500/20	3.87	19.3	0.70	6.0	6410	2230×990×2070	2800×1700×2200	1070×820		
	SCB11-2500/20	3.48	19.3	0.70	6.0	6420	2230×990×2070	2800×1700×2200	1070×820		
	SCB12-2500/20	3.10	19.3	0.70	6.0	6450	2230×990×2070	2800×1700×2200	1070×820		
	SCB13-2500/20	3.10	17.4	0.70	6.0	6490	2330×990×2170	2800×1700×2200	1070×820		

35kV树脂绝缘干式配电变压器技术参数和外形尺寸

Technical Parameters and Overall Dimensions for 35kV Cast Resin Dry-type Distribution Transformer

容量 Capacity (kV·A)	型号 Model	电压组合 Voltage		空载损耗 No load loss (kW)	负载损耗 Load loss (kW) 120°C	空载电流 No load current (%)	短路阻抗 Short- circuit impedance (%)	总重 Total weight (kg)	本体尺寸 Dimensions L×W×H (mm)	带外壳尺寸 Enclosure dimensions 长×宽×高 (mm)	本体间距 Gauge distance D×E (mm)
		高压 (kV) H.V	低压 (kV) L.V								
50	SC10-50/35	35 38.5	0.4	0.450	1.42	2.3	6.0	620	1330×750×1475	2200x1600x2200	660x550
	SC11-50/35			0.405	1.42	2.3	6.0	630	1330×750×1476		
	SC12-50/35			0.360	1.42	2.3	6.0	650	1330×750×1477		
	SC13-50/35			0.360	1.28	2.3	6.0	670	1430×750×1578		
100	SC10-100/35			0.630	2.09	2.0	6.0	1100	1420×700×1585	2200x1600x2200	660x550
	SC11-100/35			0.567	2.09	2.0	6.0	1120	1420×700×1585		
	SC12-100/35			0.504	2.09	2.0	6.0	1140	1420×700×1585		
	SC13-100/35			0.504	1.88	2.0	6.0	1160	1520×700×1685		
160	SC10-160/35			0.790	2.81	1.5	6.0	1350	1450×920×1550	2200x1600x2200	660x550
	SC11-160/35			0.710	2.81	1.5	6.0	1360	1450×920×1550		
	SC12-160/35			0.630	2.81	1.5	6.0	1380	1450×920×1550		
	SC13-160/35			0.630	2.53	1.5	6.0	1400	1550×920×1650		
200	SC10-200/35	0.880	3.32	1.5	6.0	1500	1490×920×1690	2300x1600x2200	660x550		
	SC11-200/35	0.790	3.32	1.5	6.0	1520	1490×920×1690				
	SC12-200/35	0.705	3.32	1.5	6.0	1540	1490×920×1690				
	SC13-200/35	0.705	2.90	1.5	6.0	1550	1590×920×1790				
250	SC10-250/35	0.990	3.80	1.3	6.0	1700	1490×920×1760	2300x1600x2200	660x550		
	SC11-250/35	0.890	3.80	1.3	6.0	1720	1490×920×1760				
	SC12-250/35	0.790	3.80	1.3	6.0	1740	1490×920×1760				
	SC13-250/35	0.790	3.42	1.3	6.0	1750	1590×920×1860				
315	SCB10-315/35	1.17	4.51	1.3	6.0	1900	1550×850×1650	2400x1700x2200	660x550		
	SCB11-315/35	1.05	4.51	1.3	6.0	1920	1550×850×1650				
	SCB12-315/35	0.940	4.51	1.3	6.0	1940	1550×850×1650				
	SCB13-315/35	0.940	4.06	1.3	6.0	1950	1650×850×1750				
400	SCB10-400/35	1.37	5.41	1.1	6.0	2150	1740×885×1695	2400x1700x2300	660x550		
	SCB11-400/35	1.23	5.41	1.1	6.0	2160	1740×885×1695				
	SCB12-400/35	1.10	5.41	1.1	6.0	2180	1740×885×1695				
	SCB13-400/35	1.10	4.87	1.1	6.0	2200	1840×885×1795				
500	SCB10-500/35	1.62	6.65	1.1	6.0	2580	1810×920×1695	2500x1700x2300	660x550		
	SCB11-500/35	1.46	6.65	1.1	6.0	2590	1810×920×1695				
	SCB12-500/35	1.30	6.65	1.1	6.0	2610	1810×920×1695				
	SCB13-500/35	1.30	5.99	1.1	6.0	2640	1910×920×1795				
630	SCB10-630/35	1.86	7.69	1.0	6.0	2800	1870×925×2005	2600x1700x2400	820x660		
	SCB11-630/35	1.67	7.69	1.0	6.0	2820	1870×925×2005				
	SCB12-630/35	1.49	7.69	1.0	6.0	2840	1870×925×2005				
	SCB13-630/35	1.49	6.92	1.0	6.0	2880	1970×925×2105				
800	SCB10-800/35	2.16	9.12	1.0	6.0	3450	1880×1030×1925	2600x1800x2500	820x660		
	SCB11-800/35	1.95	9.12	1.0	6.0	3470	1880×1030×1925				
	SCB12-800/35	1.73	9.12	1.0	6.0	3490	1880×1030×1925				
	SCB13-800/35	1.73	8.20	1.0	6.0	3530	1980×1030×2025				

容量 Capacity (kV·A)	型号 Model	电压组合 Voltage		空载损耗 No load loss (kW)	负载损耗 Load loss (kW) 120°C	空载电流 No load current (%)	短路阻抗 Short- circuit impedance (%)	总重 Total weight (kg)	本体尺寸 Dimensions L×W×H (mm)	带外壳尺寸 Enclosure dimensions 长×宽×高 (mm)	本体轨距 Gauge distance D×E (mm)				
		高压 (kV) H.V	低压 (kV) L.V												
1000	SCB10-1000/35	35 38.5	0.4	2.43	10.4	0.75	6.0	4000	1970×1060×1965	2700x1800x2500	820x660				
	SCB11-1000/35			2.19	10.4	0.75	6.0	4020	1970×1060×1965						
	SCB12-1000/35			1.95	10.4	0.75	6.0	4050	1970×1060×1965						
	SCB13-1000/35			1.95	9.36	0.75	6.0	4080	2070×1060×2065						
1250	SCB10-1250/35			35 38.5	0.4	2.83	12.7	0.75	6.0	4350	1980×1050×1980	2700x1800x2500	820x660		
	SCB11-1250/35					2.55	12.7	0.75	6.0	4370	1980×1050×1980				
	SCB12-1250/35					2.26	12.7	0.75	6.0	4400	1980×1050×1980				
	SCB13-1250/35					2.26	11.4	0.75	6.0	4430	2080×1050×2080				
1600	SCB10-1600/35					35 38.5	0.4	3.24	15.4	0.75	6.0	5230	2050×1050×2080	2800x1800x2600	820x660
	SCB11-1600/35							2.92	15.4	0.75	6.0	5250	2050×1050×2080		
	SCB12-1600/35							2.60	15.4	0.75	6.0	5270	2050×1050×2080		
	SCB13-1600/35							2.60	13.9	0.75	6.0	5310	2150×1050×2180		
2000	SCB10-2000/35	35 38.5	0.4					3.82	18.2	0.75	6.0	6330	2200×1050×2150	2900x1800x2700	1070x820
	SCB11-2000/35							3.44	18.2	0.75	6.0	6350	2200×1050×2150		
	SCB12-2000/35							3.06	18.2	0.75	6.0	6380	2200×1050×2150		
	SCB13-2000/35							3.06	16.4	0.75	6.0	6410	2300×1050×2250		
2500	SCB10-2500/35			35 38.5	0.4			4.45	21.8	0.75	6.0	7550	2300×1100×2130	3000x2000x2700	1070x820
	SCB11-2500/35							4.01	21.8	0.75	6.0	7580	2300×1100×2130		
	SCB12-2500/35							3.56	21.8	0.75	6.0	7600	2300×1100×2130		
	SCB13-2500/35							3.56	19.6	0.75	6.0	7630	2400×1100×2230		

### 35kV树脂绝缘干式电力变压器技术参数和外形尺寸

Technical Parameters and Overall Dimensions for 35kV Dry-type Distribution Transformer

容量 Capacity (kV·A)	型号 Model	电压组合 Voltage		空载损耗 No load loss (kW)	负载损耗 Load loss (kW) 120°C	空载电流 No load current (%)	短路阻抗 Short- circuit impedance (%)	总重 Total weight (kg)	本体尺寸 Dimensions L×W×H (mm)	带外壳尺寸 Enclosure dimensions 长×宽×高 (mm)	本体轨距 Gauge distance D×E (mm)				
		高压 (kV) H.V	低压 (kV) L.V												
800	SC10-800/35	35 38.5	6 10	2.25	9.40	0.95	6.0	3250	1880×1000×1925	3000x2200x3200	820x660				
	SC11-800/35			2.02	9.40	0.95	6.0	3060	1880×1000×1925						
	SC12-800/35			1.80	9.40	0.95	6.0	3280	1880×1000×1925						
	SC13-800/35			1.80	8.50	0.95	6.0	3300	1980×1000×2025						
1000	SC10-1000/35			35 38.5	6 10	2.67	10.9	0.95	6.0	3900	1970×1000×2100	3000x2200x3200	820x660		
	SC11-1000/35					2.40	10.9	0.95	6.0	3910	1970×1000×2100				
	SC12-1000/35					2.14	10.9	0.95	6.0	3930	1970×1000×2100				
	SC13-1000/35					2.14	9.80	0.95	6.0	3950	2070×1000×2200				
1250	SC10-1250/35					35 38.5	6 10	3.13	12.9	0.85	6.0	4800	2050×1000×2180	3000x2200x3200	820x660
	SC11-1250/35							2.82	12.9	0.85	6.0	4810	2050×1000×2180		
	SC12-1250/35							2.50	12.9	0.85	6.0	4830	2050×1000×2180		
	SC13-1250/35							2.50	11.6	0.85	6.0	4850	2150×1000×2280		
1600	SC10-1600/35	35 38.5	6 10					3.69	15.4	0.85	6.0	5500	2150×1000×2250	3300x2400x3500	820x660
	SC11-1600/35							3.32	15.4	0.85	6.0	5510	2150×1000×2250		
	SC12-1600/35							2.95	15.4	0.85	6.0	5530	2150×1000×2250		
	SC13-1600/35							2.95	13.9	0.85	6.0	5550	2250×1000×2350		
2000	SC10-2000/35			35 38.5	6 10			4.23	18.2	0.75	7.0	6230	2200×1200×2300	3300x2400x3500	1070x820
	SC11-2000/35							3.81	18.2	0.75	7.0	6240	2200×1200×2300		
	SC12-2000/35							3.38	18.2	0.75	7.0	6250	2200×1200×2300		
	SC13-2000/35							3.38	16.4	0.75	7.0	6280	2300×1200×2400		
2500	SC10-2500/35					35 38.5	6 10	4.86	21.8	0.75	7.0	7200	2350×1200×2350	3300x2400x3500	1070x820
	SC11-2500/35							4.37	21.8	0.75	7.0	7240	2350×1200×2350		
	SC12-2500/35							3.89	21.8	0.75	7.0	7260	2350×1200×2350		
	SC13-2500/35							3.89	19.7	0.75	7.0	7300	2450×1200×2450		
3150	SC10-3150/35	35 38.5	6 10					6.03	24.5	0.70	8.0	9850	2500×1200×2430	3500x2400x3500	1070x820
	SC11-3150/35							5.43	24.5	0.70	8.0	9880	2500×1200×2430		
	SC12-3150/35							4.82	24.5	0.70	8.0	9900	2500×1200×2430		
	SC13-3150/35							4.82	22.1	0.70	8.0	9950	2600×1200×2530		
4000	SC10-4000/35			35 38.5	6 10			7.02	29.4	0.70	8.0	10500	2600×1600×2535	3600x2800x3600	1475x475
	SC11-4000/35							6.31	29.4	0.70	8.0	10520	2600×1600×2535		
	SC12-4000/35							5.61	29.4	0.70	8.0	10560	2600×1600×2535		
	SC13-4000/35							5.61	26.5	0.70	8.0	10600	2700×1600×2635		
5000	SC10-5000/35					35 38.5	6 10	8.37	34.9	0.60	8.0	12800	2880×1675×2580	4000x2800x3600	1475x475
	SC11-5000/35							7.53	34.9	0.60	8.0	12820	2880×1675×2580		
	SC12-5000/35							6.96	34.9	0.60	8.0	12850	2880×1675×2580		
	SC13-5000/35							6.96	31.4	0.60	8.0	12900	2980×1675×2680		
6300	SC10-6300/35	35 38.5	6 10					9.90	40.8	0.60	8.0	15960	2950×1675×2650	4000x2800x3600	1475x475
	SC11-6300/35							8.91	40.8	0.60	8.0	15980	2950×1675×2650		
	SC12-6300/35							7.92	40.8	0.60	8.0	16020	2950×1675×2650		
	SC13-6300/35							7.92	36.7	0.60	8.0	16060	3050×1675×2750		

容量 Capacity (kV·A)	型号 Model	电压组合 Voltage		空载损耗 No load loss (kW)	负载损耗 Load loss (kW)	空载电流 No load current (%)	短路阻抗 Short- circuit impedance (%)	总重 Total weight (kg)	本体尺寸 Dimensions L×W×H (mm)	带外壳尺寸 Enclosure dimensions 长×宽×高 (mm)	本体轨距 Gauge distance D×E (mm)				
		高压 (kV) H.V	低压 (kV) L.V												
8000	SC10-8000/35	35 38.5	6 10	11.3	46.0	0.50	9.0	18210	3000×1850×2850	4300×3000×4000	1475×1475				
	SC11-8000/35			10.2	46.0	0.50	9.0	18240	3000×1850×2850						
	SC12-8000/35			9.04	46.0	0.50	9.0	18260	3000×1850×2850						
	SC13-8000/35			9.04	41.4	0.50	9.0	18310	3100×1850×2950						
10000	SC10-10000/35			35 38.5	6 10	12.9	55.5	0.50	9.0	23800	3100×1850×3070	4300×3000×4000	2×1020×1475		
	SC11-10000/35					11.6	55.5	0.50	9.0	23820	3100×1850×3070				
	SC12-10000/35					10.3	55.5	0.50	9.0	23850	3100×1850×3070				
	SC13-10000/35					10.3	49.9	0.50	9.0	23900	3200×1850×3170				
12500	SC10-12500/35					35 38.5	6 10	15.7	64.6	0.40	9.0	29600	3300×1850×3335	4500×3000×4300	2×1020×1475
	SC11-12500/35							14.1	64.6	0.40	9.0	29620	3300×1850×3335		
	SC12-12500/35							12.6	64.6	0.40	9.0	29640	3300×1850×3335		
	SC13-12500/35							12.6	58.2	0.40	9.0	29700	3400×1850×3435		
16000	SC10-16000/35	35 38.5	6 10					19.3	76.0	0.40	9.0	36500	3800×1900×3380	5000×3200×4500	2×1020×1475
	SC11-16000/35							17.4	76.0	0.40	9.0	36550	3800×1900×3380		
	SC12-16000/35							15.5	76.0	0.40	9.0	36570	3800×1900×3380		
	SC13-16000/35							15.5	68.4	0.40	9.0	36600	3900×1900×3480		

### 10kV光伏发电用干式变压器技术参数和外形尺寸

Technical Parameters and Overall Dimensions for 10kV Dry Type Transformer for Photovoltaic Power Generation

容量 Capacity (kV·A)	型号 Model	电压组合 Voltage		空载损耗 No load loss (kW)	负载损耗 Load loss (kW)	空载电流 No load current (%)	短路阻抗 Short- circuit impedance (%)	总重 Total weight (kg)	本体尺寸 Dimensions L×W×H (mm)	带外壳尺寸 Enclosure dimensions 长×宽×高 (mm)	本体轨距 Gauge distance D×E (mm)
		高压 (kV) H.V	低压 (kV) L.V								
500	SCB10-500/10	10	0.315 ×2	1.16	5.32	1.0	4.0	1800	1440×910×1350	1800×1500×2200	660×660
	SCB11-500/10			1.05	5.32	1.0	4.0	1800	1440×910×1350	1800×1500×2200	660×660
630	SCB10-630/10			1.34	6.41	0.85	4.0	1745	1460×910×1395	1800×1500×2200	820×660
	SCB11-630/10			1.21	6.41	0.85	4.0	1745	1460×910×1395	1800×1500×2200	820×660
	SCB10-630/10			1.30	6.50	0.85	6.0	1700	1460×910×1395	1800×1500×2200	820×660
800	SCB11-630/10			1.17	6.50	0.85	6.0	1700	1460×910×1395	1800×1500×2200	820×660
	SCB10-800/10			1.52	7.59	0.85	6.0	2030	1590×910×1555	2100×1600×2200	820×660
1000	SCB11-800/10			1.37	7.59	0.85	6.0	2030	1590×910×1555	2100×1600×2200	820×660
	SCB10-1000/10			1.77	8.86	0.85	6.0	2440	1660×910×1580	2100×1600×2200	820×660
SCB11-1000/10	1.59			8.86	0.85	6.0	2440	1660×910×1580	2100×1600×2200	820×660	

### 10kV光伏发电用干式变压器技术参数和外形尺寸

Technical Parameters and Overall Dimensions for 10kV Dry Type Transformer for Photovoltaic Power Generation

容量 Capacity (kV·A)	型号 Model	电压组合 Voltage		空载损耗 No load loss (kW)	负载损耗 Load loss (kW)	空载电流 No load current (%)	短路阻抗 Short- circuit impedance (%)	总重 Total weight (kg)	本体尺寸 Dimensions L×W×H (mm)	带外壳尺寸 Enclosure dimensions 长×宽×高 (mm)	本体轨距 Gauge distance D×E (mm)
		高压 (kV) H.V	低压 (kV) L.V								
1250	SCB10-1250/10	10	0.315 ×2	2.09	10.6	0.85	6.0	3900	1680×980×1650	2100×1600×2200	820×660
	SCB11-1250/10			1.88	10.6	0.85	6.0	2840	1680×980×1650	2100×1600×2200	820×660
1600	SCB10-1600/10			2.45	12.8	0.85	6.0	3570	1840×1000×1840	2200×1600×2200	820×660
	SCB11-1600/10			2.21	12.8	0.85	6.0	3570	1840×1000×1840	2200×1600×2200	820×660
2000	SCB10-2000/10			3.05	15.7	0.7	6.0	4105	2060×1040×1880	2400×1700×2200	1070×820
	SCB11-2000/10			2.75	15.7	0.7	6.0	4105	2060×1040×1880	2400×1700×2200	1070×820
2500	SCB10-2500/10			3.60	18.6	0.7	6.0	5315	2190×1070×1970	2500×1800×2200	1070×820
	SCB11-2500/10			3.24	18.6	0.7	6.0	5315	2190×1070×1970	2500×1800×2200	1070×820

### 20kV光伏发电用干式变压器技术参数和外形尺寸

Technical Parameters and Overall Dimensions for 20kV Dry Type Transformer for Photovoltaic Power Generation

容量 Capacity (kV·A)	型号 Model	电压组合 Voltage		空载损耗 No load loss (kW)	负载损耗 Load loss (kW)	空载电流 No load current (%)	短路阻抗 Short- circuit impedance (%)	总重 Total weight (kg)	本体尺寸 Dimensions L×W×H (mm)	带外壳尺寸 Enclosure dimensions 长×宽×高 (mm)	本体轨距 Gauge distance D×E (mm)
		高压 (kV) H.V	低压 (kV) L.V								
500	SCB10-500/20	20	0.315 ×2	1.35	6.31	1.1	6.0	1900	1480×930×1450	2100×1600×2200	660×660
	SCB11-500/20			1.22	6.31	1.1	6.0	1900	1480×930×1450	2100×1600×2200	660×660
630	SCB10-630/20			1.53	7.46	1.0	6.0	2200	1500×930×1495	2100×1600×2200	820×660
	SCB11-630/20			1.38	7.46	1.0	6.0	2200	1500×930×1495	2100×1600×2200	820×660
800	SCB10-800/20			1.75	9.00	1.0	6.0	3100	1630×930×1655	2300×1700×2200	820×660
	SCB11-800/20			1.58	9.00	1.0	6.0	3100	1630×930×1655	2300×1700×2200	820×660
1000	SCB10-1000/20			2.07	10.7	0.85	6.0	3500	1700×930×1680	2300×1700×2200	820×660
	SCB11-1000/20			1.86	10.7	0.85	6.0	3500	1700×930×1680	2300×1700×2200	820×660
1250	SCB10-1250/20			2.38	12.5	0.85	6.0	3600	1720×1000×1750	2300×1700×2200	820×660
	SCB11-1250/20			2.14	12.5	0.85	6.0	3600	1720×1000×1750	2300×1700×2200	820×660
1600	SCB10-1600/20			2.79	15.1	0.85	6.0	4600	1880×1020×1940	2400×1800×2200	820×660
	SCB11-1600/20			2.51	15.1	0.85	6.0	4600	1880×1020×1940	2400×1800×2200	820×660
2000	SCB10-2000/20	3.24	17.8	0.7	6.0	5260	2100×1060×1980	2700×1900×2200	1070×820		
	SCB11-2000/20	2.92	17.8	0.7	6.0	5260	2100×1060×1980	2700×1900×2200	1070×820		
2500	SCB10-2500/20	3.87	21.1	0.7	6.0	6410	2230×1090×2070	2800×2000×2200	1070×820		
	SCB11-2500/20	3.48	21.1	0.7	6.0	6410	2230×1090×2070	2800×2000×2200	1070×820		

10kV非包封绕组硅钢片叠铁心干式配电变压器技术参数和外形尺寸

Technical Parameters and Overall Dimensions for 10KV Non-sealed Insulation Winding Coil Transformer

容量 Capacity (kV·A)	型号 Model	电压组合 Voltage		空载损耗 No load loss (kW)	负载损耗 Load loss (kW)	空载电流 No load current (%)	短路阻抗 Short- circuit impedance (%)	总重 Total weight (kg)	本体尺寸 Dimensions L×W×H (mm)	带外壳尺寸 Enclosure dimensions 长×宽×高 (mm)	本体间距 Gauge distance D×E (mm)
		高压 (kV) H.V	低压 (kV) L.V								
100	SG10-100/10	6	0.4	0.400	1.69	1.5	4.0	650	970×600×1010	1500×1100×2200	550×400
	SG11-100/10			0.360	1.69	1.5	4.0	660	970×600×1010	1500×1100×2200	550×400
	SG12-100/10			0.320	1.69	1.5	4.0	680	970×600×1010	1500×1100×2200	550×400
	SG13-100/10			0.290	1.52	1.5	4.0	710	1070×600×1160	1500×1100×2200	550×400
125	SG10-125/10	6	0.4	0.470	1.98	1.3	4.0	650	1000×600×1050	1500×1100×2200	550×400
	SG11-125/10			0.420	1.98	1.3	4.0	660	1000×600×1050	1500×1100×2200	550×400
	SG12-125/10			0.375	1.98	1.3	4.0	680	1000×600×1050	1500×1100×2200	550×400
	SG13-125/10			0.340	1.78	1.3	4.0	710	1100×600×1200	1500×1100×2200	550×400
160	SG10-160/10	6	0.4	0.540	2.28	1.3	4.0	810	1030×680×1098	1500×1100×2200	550×550
	SG11-160/10			0.485	2.28	1.3	4.0	820	1030×680×1098	1500×1100×2200	550×550
	SG12-160/10			0.430	2.28	1.3	4.0	840	1030×680×1098	1500×1100×2200	550×550
	SG13-160/10			0.385	2.05	1.3	4.0	870	1130×680×1240	1500×1100×2200	550×550
200	SG10-200/10	6	0.4	0.620	2.71	1.1	4.0	980	1060×720×1100	1500×1100×2200	550×550
	SG11-200/10			0.560	2.71	1.1	4.0	990	1060×720×1100	1500×1100×2200	550×550
	SG12-200/10			0.495	2.71	1.1	4.0	1010	1060×720×1100	1500×1100×2200	550×550
	SG13-200/10			0.445	2.44	1.1	4.0	1030	1160×720×1250	1500×1100×2200	550×550
250	SG10-250/10	6	0.4	0.720	2.96	1.1	4.0	1070	2017/7/8	1500×1100×2200	550×550
	SG11-250/10			0.650	2.96	1.1	4.0	1080	1120×720×1145	1500×1100×2200	550×550
	SG12-250/10			0.575	2.96	1.1	4.0	1100	1120×720×1145	1500×1100×2200	550×550
	SG13-250/10			0.515	2.65	1.1	4.0	1130	1220×720×1300	1500×1100×2200	550×550
315	SGB10-315/10	6	0.4	0.880	3.73	1.0	4.0	1180	1140×760×935	1700×1300×2200	550×550
	SGB11-315/10			0.790	3.73	1.0	4.0	1190	1140×760×935	1700×1300×2200	550×550
	SGB12-315/10			0.705	3.73	1.0	4.0	1210	1140×760×935	1700×1300×2200	550×550
	SGB13-315/10			0.635	3.36	1.0	4.0	1230	1240×760×1260	1700×1300×2200	550×550
400	SGB10-400/10	6	0.4	0.980	4.28	1.0	4.0	1310	1140×830×974	1700×1300×2200	550×550
	SGB11-400/10			0.880	4.28	1.0	4.0	1330	1140×830×974	1700×1300×2200	550×550
	SGB12-400/10			0.785	4.28	1.0	4.0	1350	1140×830×974	1700×1300×2200	550×550
	SGB13-400/10			0.705	3.85	1.0	4.0	1380	1260×830×1240	1700×1300×2200	550×550
500	SGB10-500/10	6	0.4	1.16	5.23	1.0	4.0	1600	1185×870×1045	1700×1350×2200	660×660
	SGB11-500/10			1.05	5.23	1.0	4.0	1610	1185×870×1045	1700×1350×2200	660×660
	SGB12-500/10			0.930	5.23	1.0	4.0	1630	1185×870×1045	1700×1350×2200	660×660
	SGB13-500/10			0.835	4.71	1.0	4.0	1660	1280×870×1200	1700×1350×2200	660×660
630	SGB10-630/10	6	0.4	1.34	6.29	0.85	4.0	1950	1230×880×1085	1700×1350×2200	660×660
	SGB11-630/10			1.21	6.29	0.85	4.0	1960	1230×880×1085	1700×1350×2200	660×660
	SGB12-630/10			1.07	6.29	0.85	4.0	1980	1230×880×1085	1700×1350×2200	660×660
	SGB13-630/10			0.965	5.66	0.85	4.0	2000	1330×880×1230	1700×1350×2200	660×660
630	SGB10-630/10	6	0.4	1.30	6.40	0.85	6.0	1850	1370×880×1020	1700×1350×2200	660×660
	SGB11-630/10			1.17	6.40	0.85	6.0	1860	1370×880×1020	1700×1350×2200	660×660
	SGB12-630/10			1.04	6.40	0.85	6.0	1880	1370×880×1020	1700×1350×2200	660×660
	SGB13-630/10			0.935	5.76	0.85	6.0	1900	1470×880×1180	1700×1350×2200	660×660

容量 Capacity (kV·A)	型号 Model	电压组合 Voltage		空载损耗 No load loss (kW)	负载损耗 Load loss (kW)	空载电流 No load current (%)	短路阻抗 Short- circuit impedance (%)	总重 Total weight (kg)	本体尺寸 Dimensions L×W×H (mm)	带外壳尺寸 Enclosure dimensions 长×宽×高 (mm)	本体间距 Gauge distance D×E (mm)
		高压 (kV) H.V	低压 (kV) L.V								
800	SGB10-800/10	6	0.4	1.52	7.46	0.85	6.0	2250	1400×900×1080	1900×1350×2200	820×660
	SGB11-800/10			1.37	7.46	0.85	6.0	2260	1400×900×1080	1900×1350×2200	820×660
	SGB12-800/10			1.22	7.46	0.85	6.0	2280	1400×900×1080	1900×1350×2200	820×660
	SGB13-800/10			1.10	6.72	0.85	6.0	2300	1500×900×1130	1900×1350×2200	820×660
1000	SGB10-1000/10	6	0.4	1.77	8.76	0.85	6.0	2500	1470×900×1115	1900×1350×2200	820×660
	SGB11-1000/10			1.59	8.76	0.85	6.0	2510	1470×900×1115	1900×1350×2200	820×660
	SGB12-1000/10			1.42	8.76	0.85	6.0	2530	1470×900×1115	1900×1350×2200	820×660
	SGB13-1000/10			1.28	7.89	0.85	6.0	2550	1570×900×1215	1900×1350×2200	820×660
1250	SGB10-1250/10	6	0.4	2.09	10.3	0.85	6.0	3200	1510×900×1225	2100×1500×2200	820×660
	SGB11-1250/10			1.88	10.3	0.85	6.0	3210	1510×900×1225	2100×1500×2200	820×660
	SGB12-1250/10			1.67	10.3	0.85	6.0	3230	1510×900×1225	2100×1500×2200	820×660
	SGB13-1250/10			1.51	9.34	0.85	6.0	3260	1610×900×1325	2100×1500×2200	820×660
1600	SGB10-1600/10	6	0.4	2.45	12.5	0.85	6.0	3870	1620×900×1320	2100×1500×2200	820×660
	SGB11-1600/10			2.21	12.5	0.85	6.0	3880	1620×900×1320	2100×1500×2200	820×660
	SGB12-1600/10			1.96	12.5	0.85	6.0	3900	1620×900×1320	2100×1500×2200	820×660
	SGB13-1600/10			1.77	11.3	0.85	6.0	3920	1720×900×1420	2100×1500×2200	820×660
2000	SGB10-2000/10	6	0.4	3.05	15.5	0.70	6.0	4480	1680×980×1390	2300×1500×2200	820×660
	SGB11-2000/10			2.75	15.5	0.70	6.0	4490	1680×980×1390	2300×1500×2200	820×660
	SGB12-2000/10			2.44	15.5	0.70	6.0	4510	1680×980×1390	2300×1500×2200	820×660
	SGB13-2000/10			2.20	14.1	0.70	6.0	4530	1780×980×1480	2300×1500×2200	820×660
2500	SGB10-2500/10	6	0.4	3.60	18.4	0.70	6.0	5380	1900×1020×1725	2300×1600×2200	1070×820
	SGB11-2500/10			3.24	18.4	0.70	6.0	5390	1900×1020×1725	2300×1600×2200	1070×820
	SGB12-2500/10			2.88	18.4	0.70	6.0	5400	1900×1020×1725	2300×1600×2200	1070×820
	SGB13-2500/10			2.59	16.6	0.70	6.0	5420	2000×1020×1825	2300×1600×2200	1070×820
1600	SGB10-1600/10	6	0.4	2.45	13.9	0.85	8.0	3870	1620×900×1320	2100×1350×2200	820×660
	SGB11-1600/10			2.21	13.9	0.85	8.0	3880	1620×900×1320	2100×1350×2200	820×660
	SGB12-1600/10			1.96	13.9	0.85	8.0	3900	1620×900×1320	2100×1350×2200	820×660
	SGB13-1600/10			1.77	12.5	0.85	8.0	3920	1720×900×1420	2100×1350×2200	820×660
2000	SGB10-2000/10	6	0.4	3.05	17.1	0.70	8.0	4480	1680×980×1390	2300×1500×2200	820×660
	SGB11-2000/10			2.75	17.1	0.70	8.0	4490	1680×980×1390	2300×1500×2200	820×660
	SGB12-2000/10			2.44	17.1	0.70	8.0	4510	1680×980×1390	2300×1500×2200	820×660
	SGB13-2000/10			2.20	15.4	0.70	8.0	4530	1780×980×1480	2300×1500×2200	820×660
2500	SGB10-2500/10	6	0.4	3.60	20.2	0.70	8.0	5380	1900×1020×1725	2300×1600×2200	1070×820
	SGB11-2500/10			3.24	20.2	0.70	8.0	5390	1900×1020×1725	2300×1600×2200	1070×820
	SGB12-2500/10			2.88	20.2	0.70	8.0	5400	1900×1020×1725	2300×1600×2200	1070×820
	SGB13-2500/10			2.59	18.2	0.70	8.0	5420	2000×1020×1825	2300×1600×2200	1070×820

以上尺寸根据产品优化会相应调整，最终以图纸确认为准。

The above dimensions will be adjusted according to the product optimization, with final drawing approval.