

变压器产品手册

Transformer Product Brochure



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 大连理工大学 Dalian University Of Technology	 北京大学 PEKING UNIVERSITY
 北京理工大学 BEIJING INSTITUTE OF TECHNOLOGY	 江苏大学 Jiangsu University

*排名不分先后, 因合作客户过多, 以上只列举部分品牌
The ranking is not in any order. Because there are too many cooperative customers, only some brands are listed above



JYK High-precision AC transformer series

JYK 高精度交流变压器系列



产品概述 Product profile

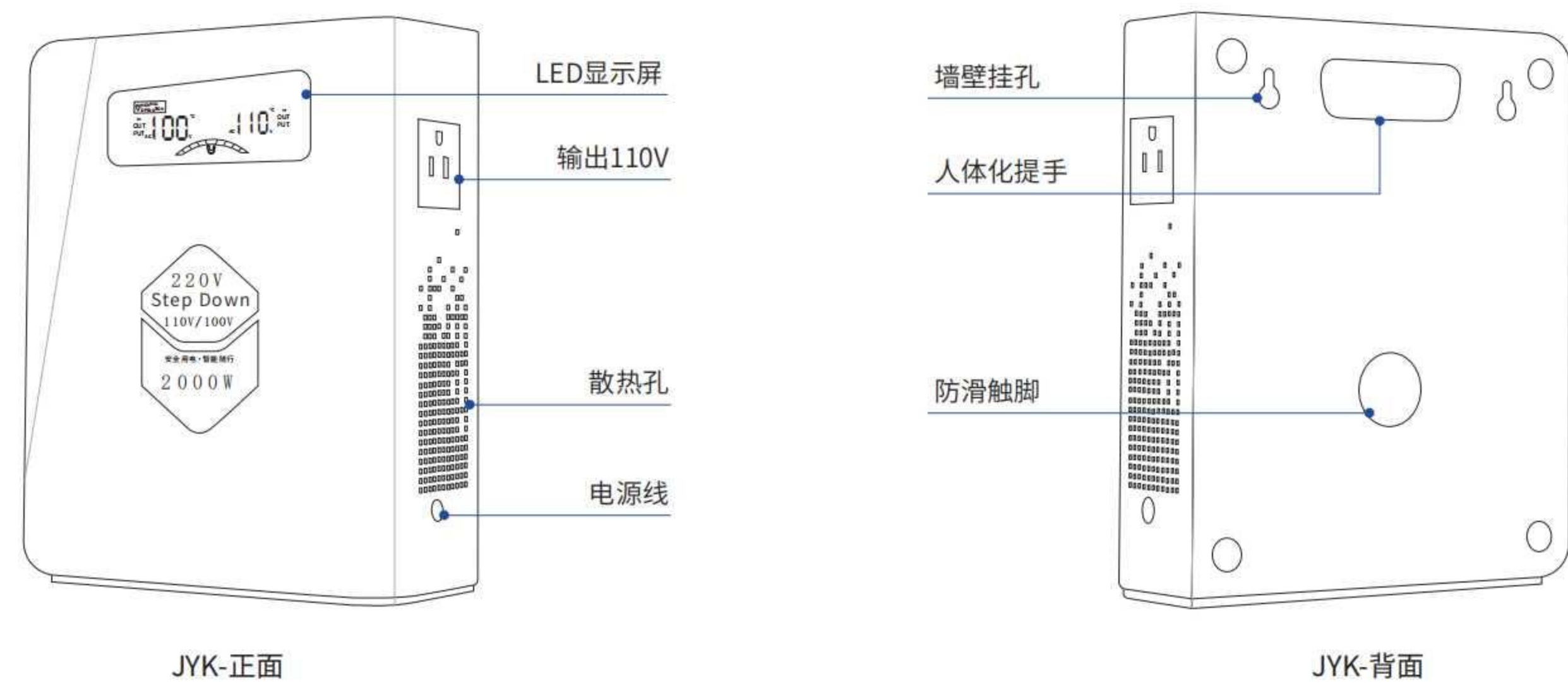
▶ 环形变压器是电子变压器的一大类型，已广泛应用于家电设备和其它技术要求较高的电子设备中，它的主要用途是作为电源变压器和隔离变压器。环形变压器在国外已有完整的系列，广泛应用于计算机、医疗设备、电讯、仪器和灯光照明等方面。我国近十年来环形变压器从无到有，迄今为止已形成相当大的生产规模，除满足国内需求外，还大量出口。国内主要用于家电的音响设备和自控设备以及石英灯照明等方面。振动噪声较小铁心没有气隙能减少铁心感应振动的噪音，绕组均匀紧紧包住环形铁心，有效地减小磁致伸缩引起的“嗡嗡”声。运行温度低由于铁损可以做到1.1W/kg，铁损很小，铁心温升低，绕组在温度较低的铁心上散热情况良好，所以变压器温升低。

Ring transformer is a large type of electronic transformers, has been widely used in home appliances and other technical requirements of higher electronic equipment, its main purpose is as a power transformer and isolation transformer. Ring transformer in foreign countries have a complete series, widely used in computers, medical equipment, telecommunications, equipment and lighting, and so on. China's ring transformer in recent years from scratch, has so far formed a considerable scale of production, in addition to meet domestic demand, but also a large number of exports. China is mainly used for home appliances and audio equipment and automatic control equipment, and quartz lighting and so on. Small vibration noise The core does not have the air gap can reduce the iron core to induce the vibration noise, the winding evenly wraps tightly the annular core, effectively reduces the magnetostriction to cause "buzzing" the sound. Low operating temperature As the iron loss can be MW 1 kg, iron loss is very small, core temperature is low, the windings in the lower temperature of the core cooling in good condition, so the transformertemperature-is-low.

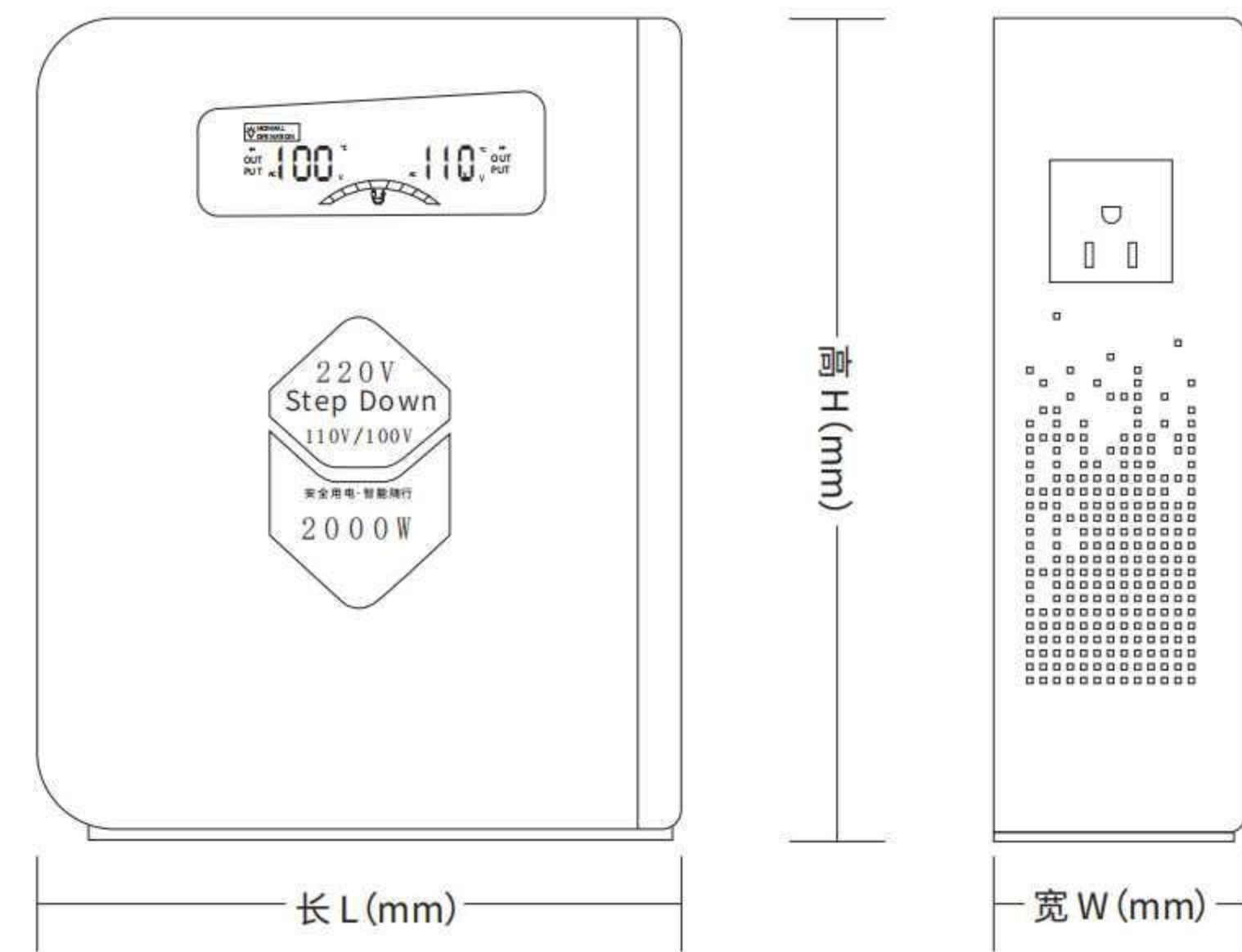
适用范围 Scope of application

- ▶ 主要适用于220V或者110V的电器使用，带双输出插座输出电压可以选择！日光电饭煲、吹风机、马桶盖、美国榨汁机、音箱等产品！
It is mainly suitable for 220V or 110V electrical appliances. The output voltage with dual output sockets can be selected! Nikko rice cookers, hair dryers, horse figurines, American juicers, speakers and more!

产品解析 Product analysis



外观尺寸 Appearance of size





高颜值 实力派

—
升级瓷白机身设计
稳压的同时给您更好的视觉享受

技术参数 Main technical parameter

产品型号 Product model		输入电压 Input voltage	输出电压 Output voltage	尺寸 (mm)长x宽x高 L x W x H
国内版	JYK-500VA	220V	100V 110V	190*242*760
	JYK-1000VA			190*242*760
	JYK-2000VA			190*242*760
海外版	JYK-500VA	110V	220V	190*242*760
	JYK-1000VA			190*242*760
	JYK-2000VA			190*242*760

型 号 model	JYK系列 JYK series	
频 率 frequency	50HZ/60HZ	
过压保护 Overvoltage protection	国内版	海外版
	输出:135V±5V	输出:265V±5V
欠压保护 Undervoltage protection	输出:90V±5V	输出:180V±5V
功率因数 power factor	0.9	
响应时间 Response time	≤1.5S	
效 率 Efficiency	≥ 98%	
波形失真 Waveform distortion	无附加波形失真 No additional waveform distortion	
环境温度 Ambient temperature	-10℃~40℃	
相对湿度 Relative humidity	<90%	
抗电强度 Dielectric strength	1500V两分钟无击穿现象 No breakdown at 1500V for two minutes	
保护功能 Protection function	过温、过载保护 over temperature, overload protection	
工作方式 Working mode	可长期,连续无人值守工作 long-term, continuous unattended work	
启动方式 Starting mode	开关启动控制! switch start control!	
电源线长 Power line length	GB1.2m	

SDK US-Japan voltage converter

SDK 美日电压转换器

变压器系列



产品概述 Product profile

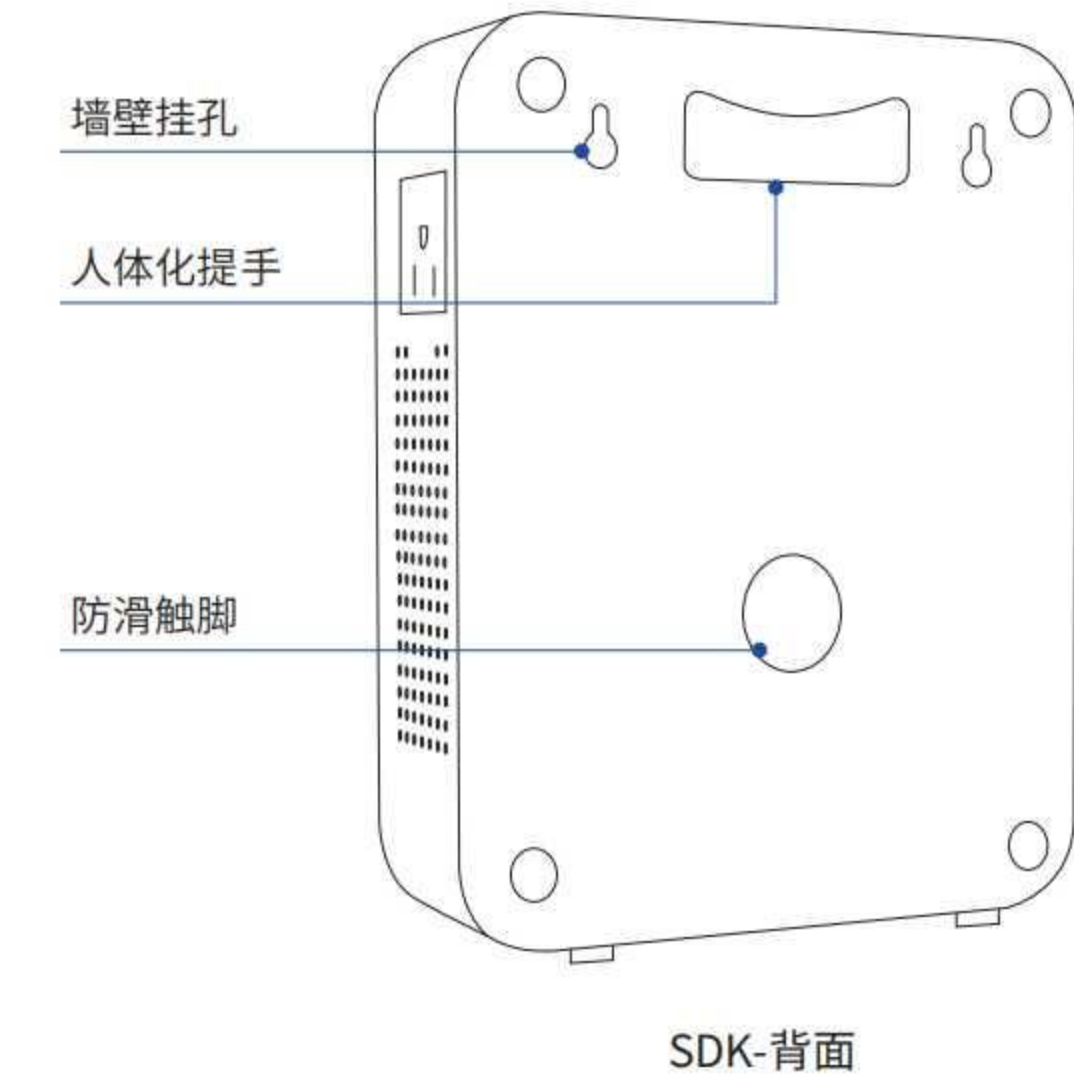
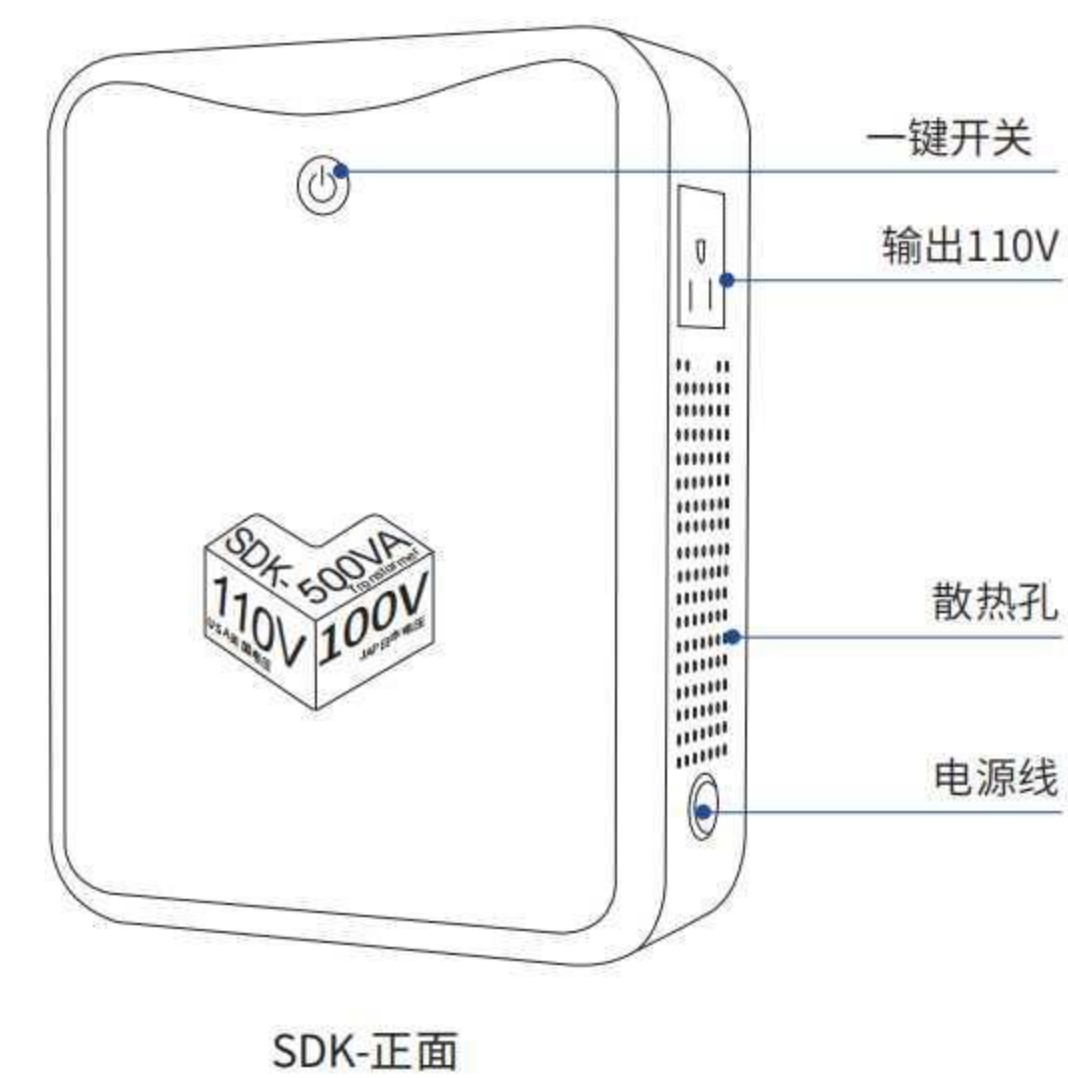
- ▶ 环形变压器是电子变压器的一大类型，已广泛应用于家电设备和其它技术要求较高的电子设备中，它的主要用途是作为电源变压器和隔离变压器。环形变压器在国外已有完整的系列，广泛应用于计算机、医疗设备、电讯、仪器和灯光照明等方面。我国近十年来环形变压器从无到有，迄今为止已形成相当大的生产规模，除满足国内需求外，还大量出口。国内主要用于家电的音响设备和自控设备以及石英灯照明等方面。振动噪声较小铁心没有气隙能减少铁心感应振动的噪音，绕组均匀紧紧包住环形铁心，有效地减小磁致伸缩引起的“嗡嗡”声。运行温度低由于铁损可以做到1.1W/kg，铁损很小，铁心温升低，绕组在温度较低的铁心上散热情况良好，所以变压器温升低。

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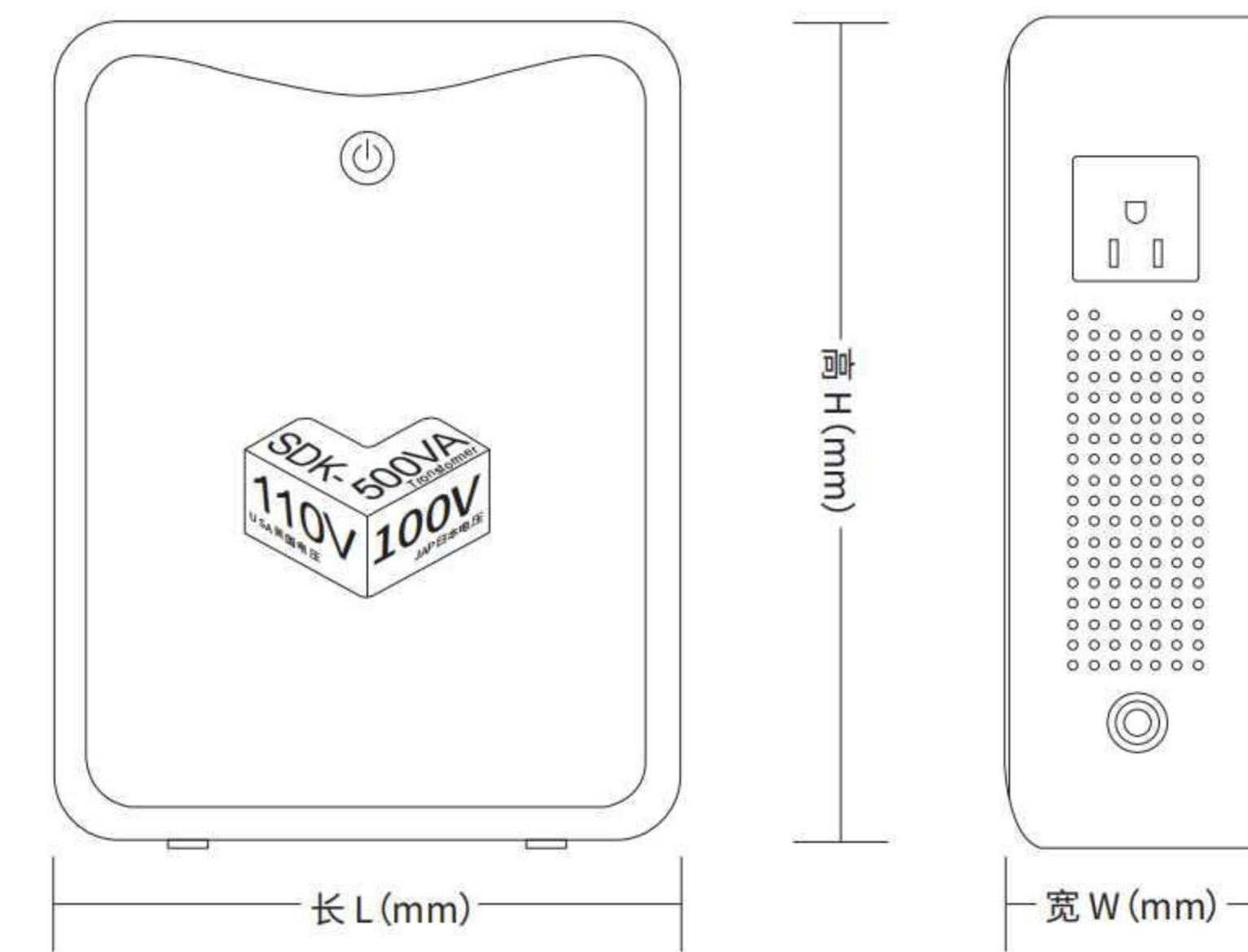
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产品解析 Product analysis



外观尺寸 Appearance of size



变压器系列



技术参数 Main technical parameter

产品型号 Product model		输入电压 Input voltage	输出电压 Output voltage	尺寸 (mm)长x宽x高 L x W x H
国内版	SDK-500VA	220V	100V 110V	185*75*240
	SDK-1000VA			
	SDK-2000VA			
海外版	SDK-500VA	110V	220V	
	SDK-1000VA			
	SDK-2000VA			

型 号 model	SDK系列 SDK series	
频 率 frequency	50HZ/60HZ	
过压保护 Overvoltage protection	国内版	海外版
	输出:135V±5V	输出:250V±5V
欠压保护 Undervoltage protection	输出:90V±5V	输出:190V±5V
功率因数 power factor	0.9	
响应时间 Response time	≤1.5S	
效 率 Efficiency	≥ 98%	
波形失真 Waveform distortion	无附加波形失真 No additional waveform distortion	
环境温度 Ambient temperature	-20℃~40℃	
相对湿度 Relative humidity	<90%	
抗电强度 Dielectric strength	1500V两分钟无击穿现象 No breakdown at 1500V for two minutes	
保护功能 Protection function	过温、过载保护 over temperature, overload protection	
工作方式 Working mode	可长期,连续无人值守工作 long-term, continuous unattended work	
启动方式 Starting mode	开关启动控制! switch start control!	
电源线长 Power line length	GB1.2m	

GBK AC isolation transformer

GBK 交流隔离变压器

变压器系列



产品概述 Product profile

- 隔离变压器是指输入绕组与输出绕组带电气隔离的变压器，隔离变压器用以避免偶然同时触及带电体，变压器的隔离是隔离原副边线圈各自的电流；广泛用于工矿企业和电子工业、精密仪器设备、医疗设备、机床机械设备中；一次侧、二次侧绕组间有较高的绝缘强度以隔离不同电位抑制共模干扰的专用变压器。随着工业的日益发展，给电网带来的工业污染也越来越严重，这些污染主要来自工业设备（例如电机、电焊机）和机械的换接瞬变过程、雷击、电晕、路过汽车的点火、无线电和电视的传输等等。虽然这种杂波对一般用途设备没有什么影响，但对精密测量、遥控等设备系统，数字数据处理设备，信息通讯系统及计算机网络都带来严重影响。

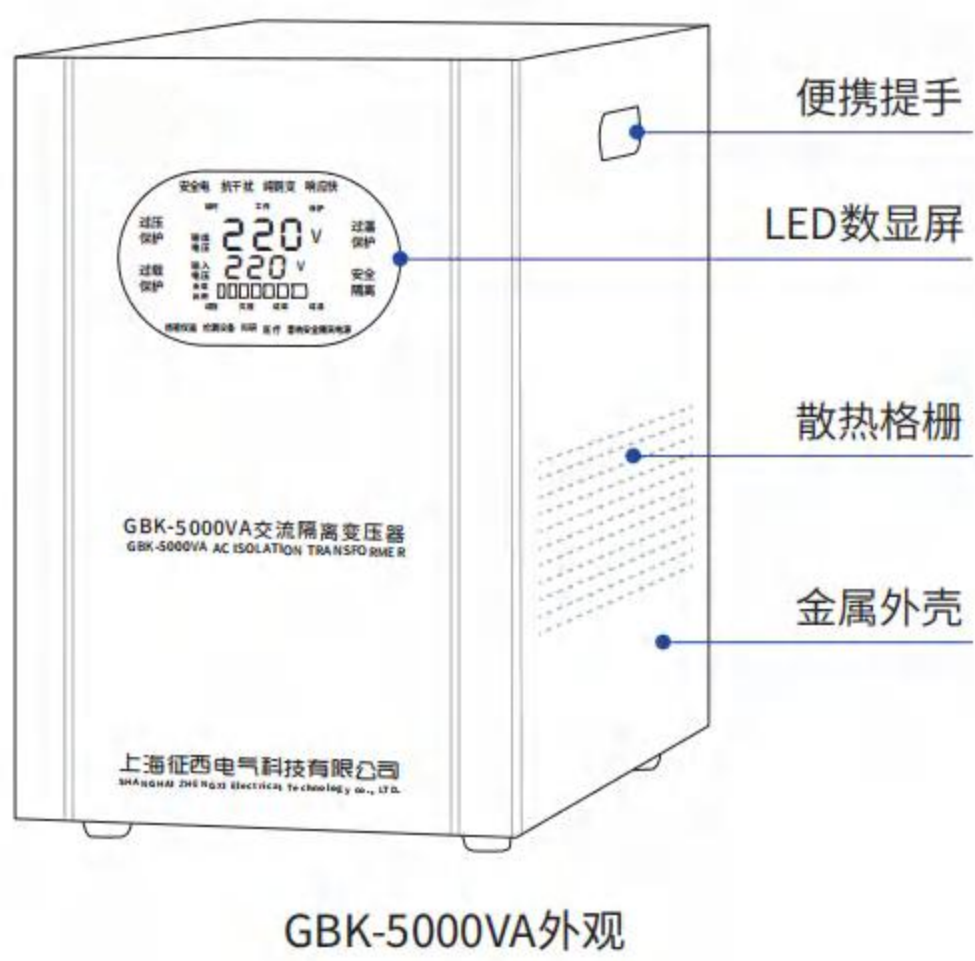
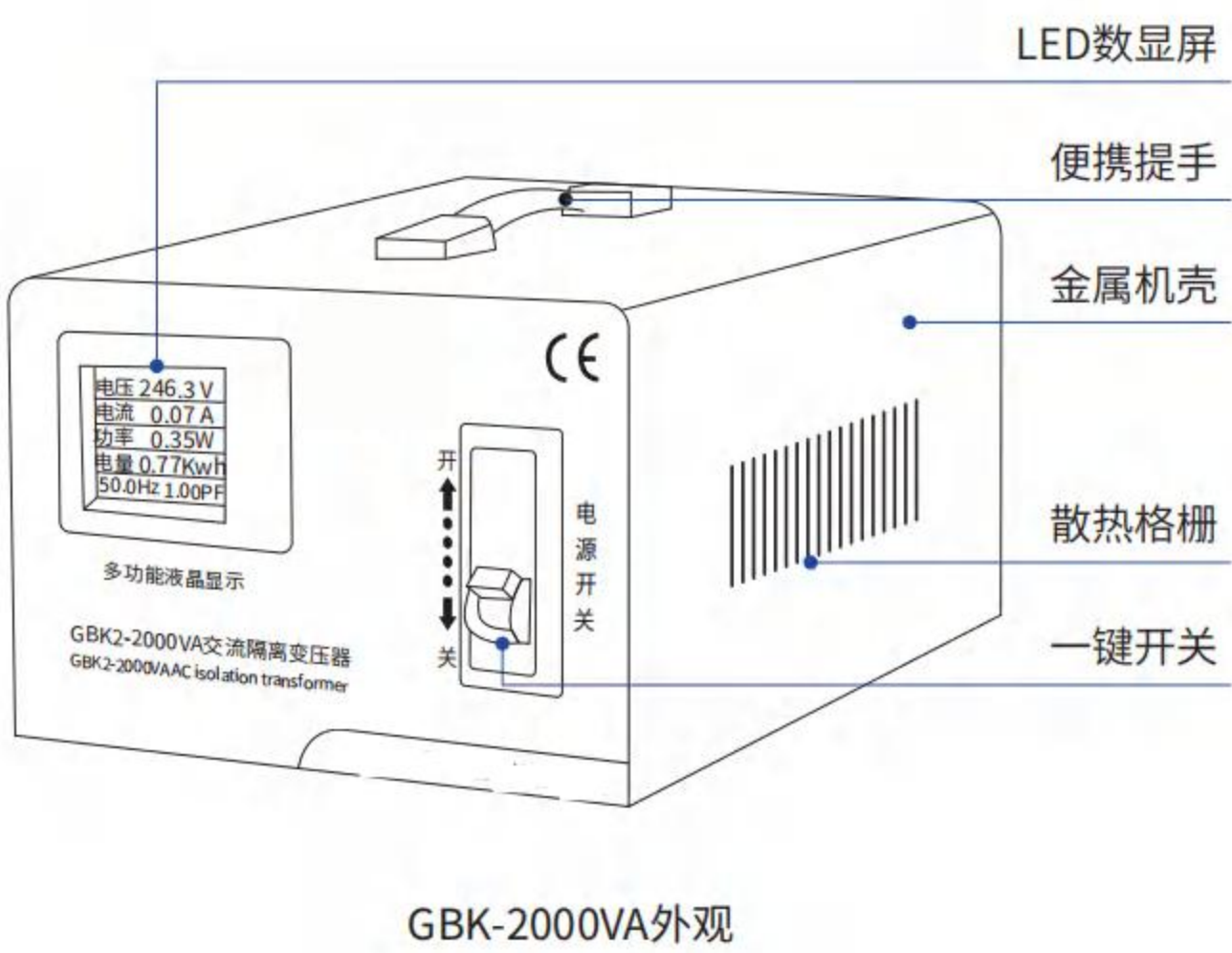
The isolation transformer refers to the transformer whose input winding is electrically isolated from the outputwinding. The isolation transformer is used to avoid accidental simultaneous contact with the charged body. The isolation of the transformer is to isolate the current of the primary and secondary coils; it is widely used in industrial and mining enterprises and the electronics industry and precision instruments. Equipment, medical equipment, machine tools and machinery; high-insulation strength between the primary and secondary windings to isolate different potentials to suppress common mode interference. With the development of industry, the industrial pollution brought to the power grid is becoming more and more serious. These pollutions mainly come from industrial equipment (such as electric motors, electric welders, etc.) and mechanical switching transients, lightning strikes, corona, passing cars. Ignition, radio and television transmission, etc. Although this kind of clutter has no effect on general-purpose equipment, it has serious impact on equipment systems such as precision measurement and remote control, digital data processing equipment, information communication systems and computer networks.

产品作用 Product function

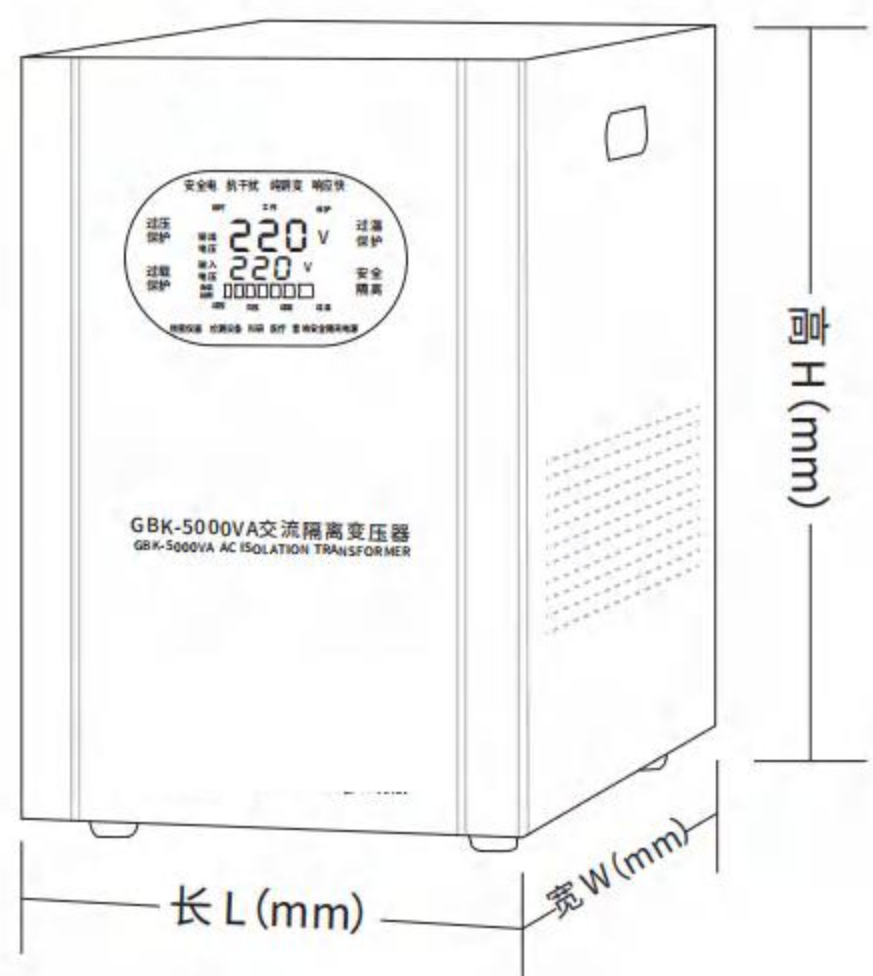
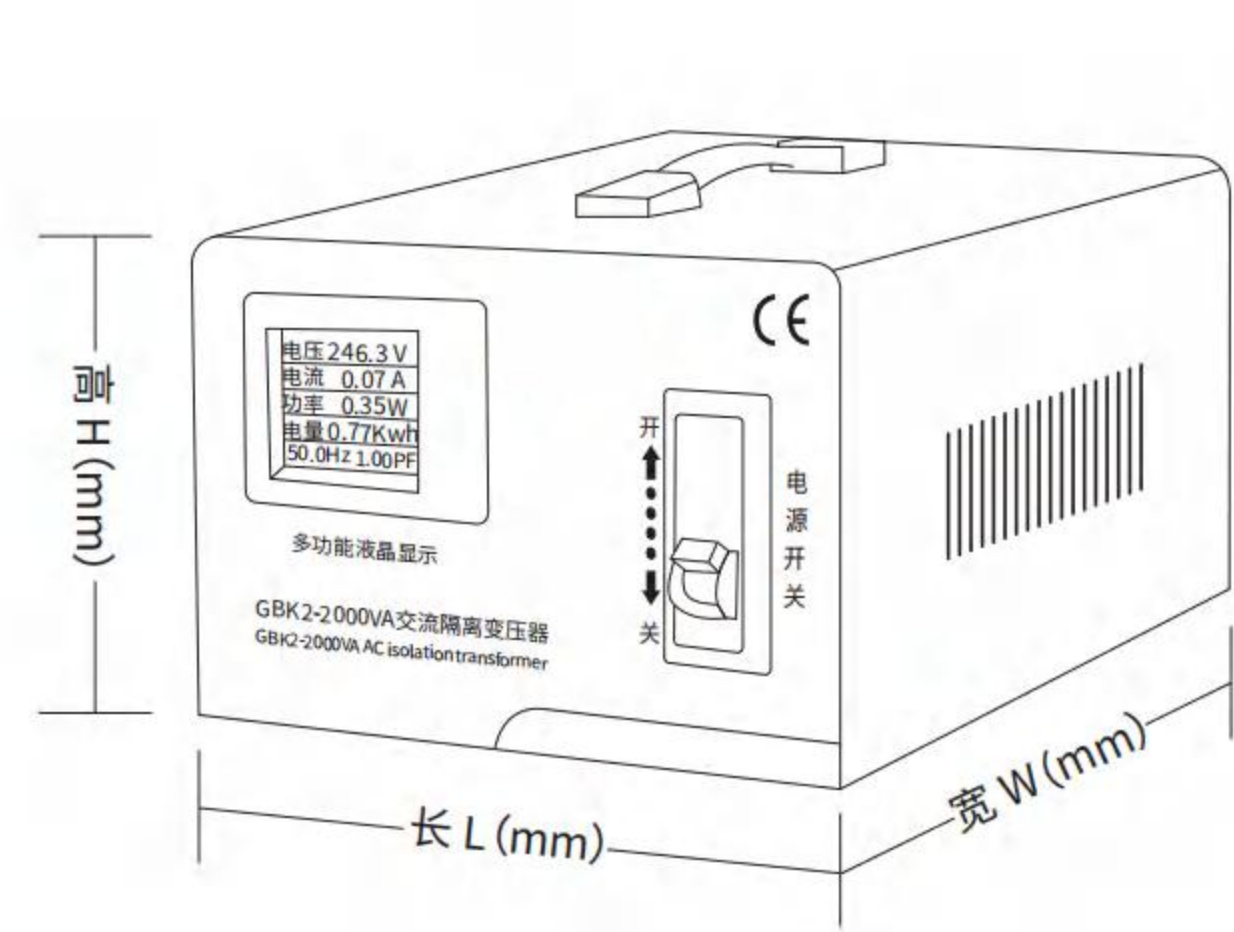
- 隔离变压器的主要作用是：使一次侧与二次侧的电气完全绝缘，也使该回路隔离。另外，利用其铁芯的高频损耗大的特点，从而抑制高频杂波传入控制回路。用隔离变压器使二次对地悬浮，只能用在供电范围较小、线路较短的场合。此时，系统的对地电容电流小得不足以对人身造成伤害。还有一个很重要的作用就是保护人身安全，隔离危险电压。

The main function of the isolation transformer is to completely insulate the electrical of the primary side from the secondary side and also isolate the circuit. In addition, the high-frequency loss of the iron core is utilized to suppress high-frequency clutter from being transmitted to the control loop. The isolation transformer is used to suspend the second ground to the ground, and can only be used in the case where the power supply range is small and the line is short. At this point, the system's capacitance to ground capacitance is not small enough to cause personal injury. Another important role is to protect personal safety and isolate dangerous voltages.

产品解析 Product analysis



外观尺寸 Appearance of size



变压器系列

隔离的 更安全

220V转220V隔离变压器

变压器系列

变压器系列



技术参数 Main technical parameter

产品型号 Product model	输入电压 Input voltage	输出电压 Output voltage	建议负载 Recommended load	尺寸(mm)长x宽x高 L x W x H
GBK-200VA	220±10%	220±10%	≤200VA	185*280*140
GBK-300VA			≤300VA	185*280*140
GBK2-300VA(多功能显示屏)			≤300VA	185*280*140
GBK-500VA			≤500VA	185*265*143
GBK2-500VA(多功能显示屏)			≤500VA	185*265*143
GBK-1000VA			≤1000VA	180*250*145
GBK2-1000VA(多功能显示屏)			≤1000VA	180*250*145
GBK-2000VA			≤2000VA	213*350*164
GBK2-2000VA(多功能显示屏)			≤2000VA	213*350*164
GBK-3000VA			≤3000VA	243*320*262
GBK-4000VA			≤4000VA	240*410*370
GBK-5000VA			≤5000VA	240*410*370

型 号 model	GBK系列 GBK series
频 率 frequency	50HZ/60HZ
额定功率 Rated power	500VA
额定电流 Rated current	2.28A
建议负载 Recommended load	≤500VA
绝缘等级 Insulation class	F级 Class F
绝缘电阻 Insulation resistance	≥5MΩ
工作耐压 Working withstand voltage	2500V 1min无击穿 2500V 1min without breakdown
工作温度 Working temperature	上限40°C, 下限-20°C upper limit 40 ° C, lower limit -20 ° C
相对湿度 Relative humidity	不大于90% no more than 90%
海拔高度 Altitude	不超过2000m no more than 2000m

BK Control transformer Series

BK 控制变压器系列



产品概述 Product profile

- 在低压配电系统中,控制变压器因多用于控制系统而得名。它实际上是一个具有多种输出电压的降压变压器,也可用做低压照明及信号灯、指示灯的电源。

In low-voltage distribution system, control transformer is named because it is mostly used in control system. In fact, it is a step-down transformer with multiple output voltages, and can also be used as the power supply for low-voltage lighting, signal lights and indicator lights.

- 使用控制变压器时应注意两点:一是变压器功率,二是正确接线。二次侧(即次级)所接负载的总功率不得大于控制变压器的功率,更不允许短路。否则将导致其温度太高,严重时将其烧毁。控制变压器的一、二次(即初、次级)接线不得接错,尤其是一次侧接线更不能接错。一次侧应配接的电压值均标注在它的接线端上,绝不允许把380 V的电源线接在220 V接线端子上,但可以把220 V电源线接在380 V接线端子上,此时二次侧所有输出电压将降低1.73倍。二次侧负载应根据其额定电压值接在相应的接线端子上,例如6.3 V的指示灯应接在6.3 V接线柱上,机床36 V照明灯泡应接在36 V接线柱上,127 V的机床交流接触器线圈应接在127 V接线柱上。

Two points should be paid attention to when using the control transformer: one is the power of the transformer, and the other is the correct wiring. The total power of the load connected to the secondary side (i.e. the secondary side) shall not be greater than the power of the control transformer, and short circuit is not allowed. Otherwise, the temperature will be too high, and it will be burned in case of serious problems. The primary and secondary (i.e. primary and secondary) wiring of the control transformer shall not be wrongly connected, especially the primary side wiring. The voltage value that should be matched at the primary side is marked on its terminal. It is not allowed to connect the 380 V power line to the 220 V terminal, but the 220 V power line can be connected to the 380 V terminal. At this time, all output voltages at the secondary side will be reduced by 1.73 times. The secondary side load shall be connected to the corresponding terminal according to its rated voltage, for example, the 6.3 V indicator lamp shall be connected to the 6.3 V terminal, the 36 V lighting bulb of the machine tool shall be connected to the 36V terminal, and the 127 V AC contactor coil of the machine tool shall be connected to the 127 V terminal.

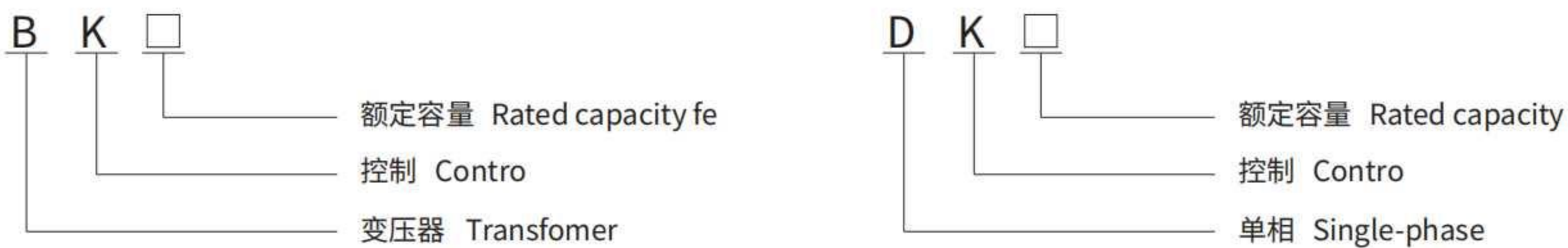
适用范围 Scope of application

- BK系列控制变压器(以下简称变压器)适用于50-60Hz电压至500V电路中,通常用作机床控制电器局部照明灯及指示灯的电源之用。
BK Series control transformer (hereinafter referred to as the transformer) 50-60Hz apply voltage to 500V circuit. usually used as a tool to control local electric lights and power indicator light.

结构特征 Structure fratures

- BK系列变压器按结构分为壳式,按安装方式分为立式。
BK Series transformer can be classified according to the structure of the shell and, by the way the installation can bedivided into vertical.

型号含义 Type designation



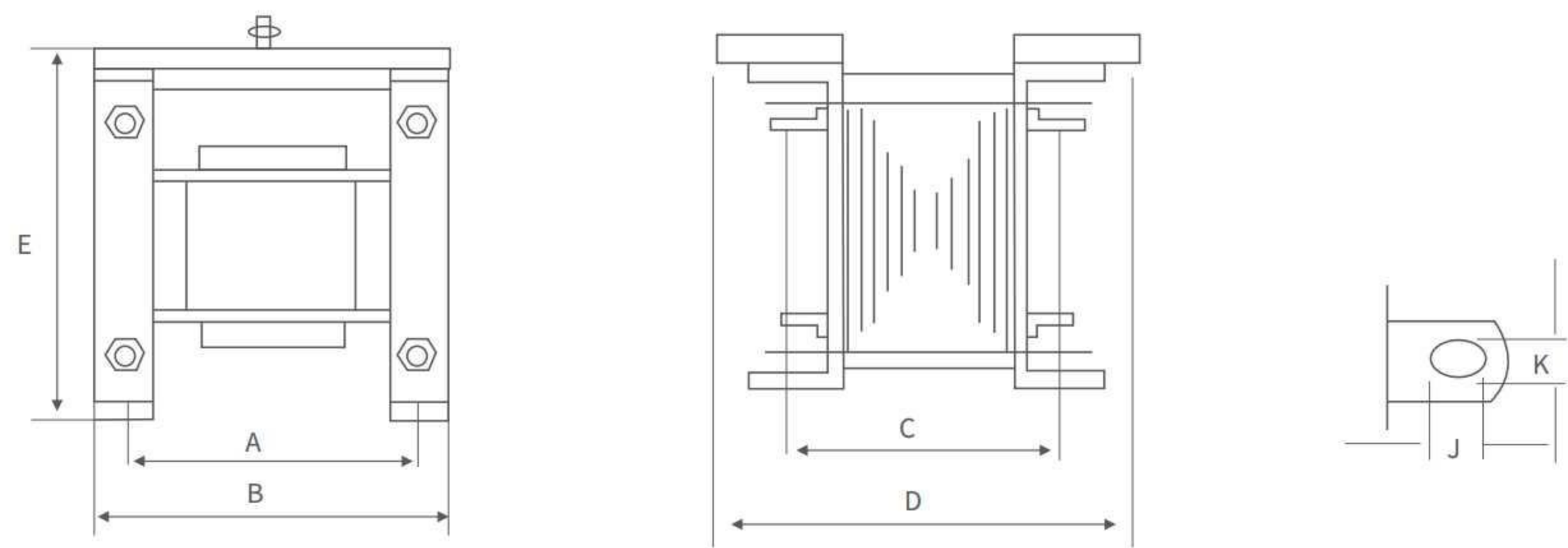
使用环境 Usage environment

- 周围空气温度 - 5°C~40°C, 2小时平均值不超过35°C;
- 安装地点海拔不超过2000m;
- 大气相对湿度在周围空气温度为+40°C:时不超过50%, 在较低温度下可以有较高的相对湿度。最湿月的月平均最大湿度为90%, 同时该月的平均低温度为+25°C:并考虑到因温度变化发生在产品表面上的凝露。
- Ambient air temperature kr-5°C to +40°C, 24hourn average nomore than +35°C;
- Location to install an altitude of no more than2000m;
- Air relative humidity in the anbient air temperature +40°C less than 50%, at a relatively low temperature can have a high relative humidity. wet on the monthly average maximum humidity was 90%, while the mean minimum temperature +25°C, and taking into account the temperature changes ocxur as a result of the product on the surface of the Gel.

技术参数 Main technical parameter

型 号 model	BK
频 率 frequency	50HZ/60HZ
效 率 efficiency	≥98%
输入电压 Input voltage	两相440V/415V/380V/360V two-phase440V/415V/380V/360V
输出电压 Output voltage	可定制两相440V/12V/24V/36V/48V/60V/120V/220V Two groups can be customized440V/12V/24V/36V/48V/60V/120V/220V
电气强度 Electrical strength	工频正弦电压2000V—一分钟无击穿现象 Power frequency sinusoidal voltage 2000V for one minute without breakdown
波形失真 Waveform distortion	无附加波形失真 No additional waveform distortion
环境温度 ambient temperature	- 15℃~40℃
相对湿度 relative humidity	≤90%
绝缘电阻 insulation resistance	≥50MΩ
过载能力 Overload capacity	二倍的额定电流, 维持一分钟 Double the rated current for one minute

外形及安装尺寸 Shape and size of the installation



产品规格 Product specifications

产品型号 Product model	外形尺寸 Dimensions			安装尺寸 Installation size		孔径 Aperture (K*J)
	B	D	E	A	C	
BK-25VA	80	70	90	56	48	5*8
BK-50VA	80	72	90	56	50	5*8
BK-100VA	98	85	108	84	65	5*8
BK-150VA	105	86	110	76	77	5*8
BK-200VA	105	105	115	85	87	8*11
BK-250VA	105	115	110	85	95	8*11
BK-300VA	115	110	115	90	90	8*11
BK-400VA	135	125	140	110	97	8*13
BK-500VA	135	130	140	110	103	8*13
BK-600VA	152	110	150	120	90	8*13
BK-700VA	152	110	150	120	90	8*13
BK-800VA	152	125	150	120	105	8*13
BK-1000VA	152	142	165	120	120	8*13
BK-1500VA	175	170	195	130	120	8.5*17
BK-2000VA	205	215	230	170	130	8*11
BK-2500VA	205	225	230	170	140	8*11
BK-3000VA	205	240	230	170	150	8*11
BK-4000VA	235	265	260	195	175	8*11
BK-5000VA	235	280	260	195	190	8*11

JBK3/5 Machine control transformer series

JBK3/5 机床控制变压器系列



产品概述 Product profile

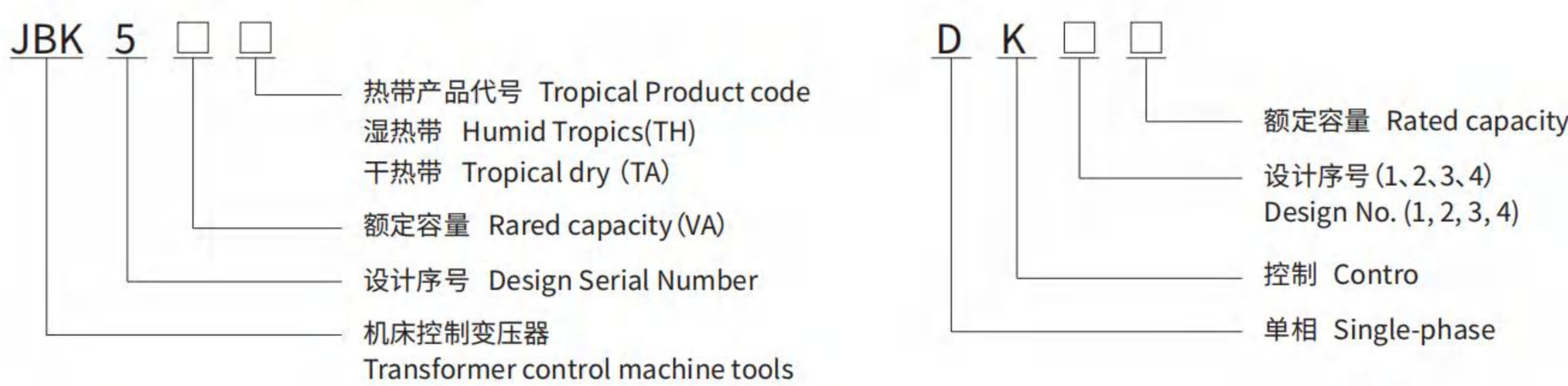
- JBK3/5系列机床控制变压器是我公司引进德国90年代中期最新型变压器系列,在国内JBK3系列机床控制变压器基础上,经过多年来进一步吸收国外同类产品,并优选国外先进方法的接线端子结构、将端子与骨架合在一起,使防护等级提高到IP2LX,防止偶然触及电路。采用国内IT冷压接线端子,接线方式可经使接线密集程度提高。

JBK3 / 5 series machine tool control transformer is the latest transformer series introduced by Germany in the mid-1990s. Based on domestic JBK3 series machine tool control transformers, it has further absorbed similar foreign products over the years, and has optimized the terminal structure of advanced foreign methods. The terminals and the skeleton are combined together to increase the protection level to IP2LX to prevent accidental contact with the circuit. Using domestic IT cold-pressed terminal blocks, the wiring method can make the wiring denser.

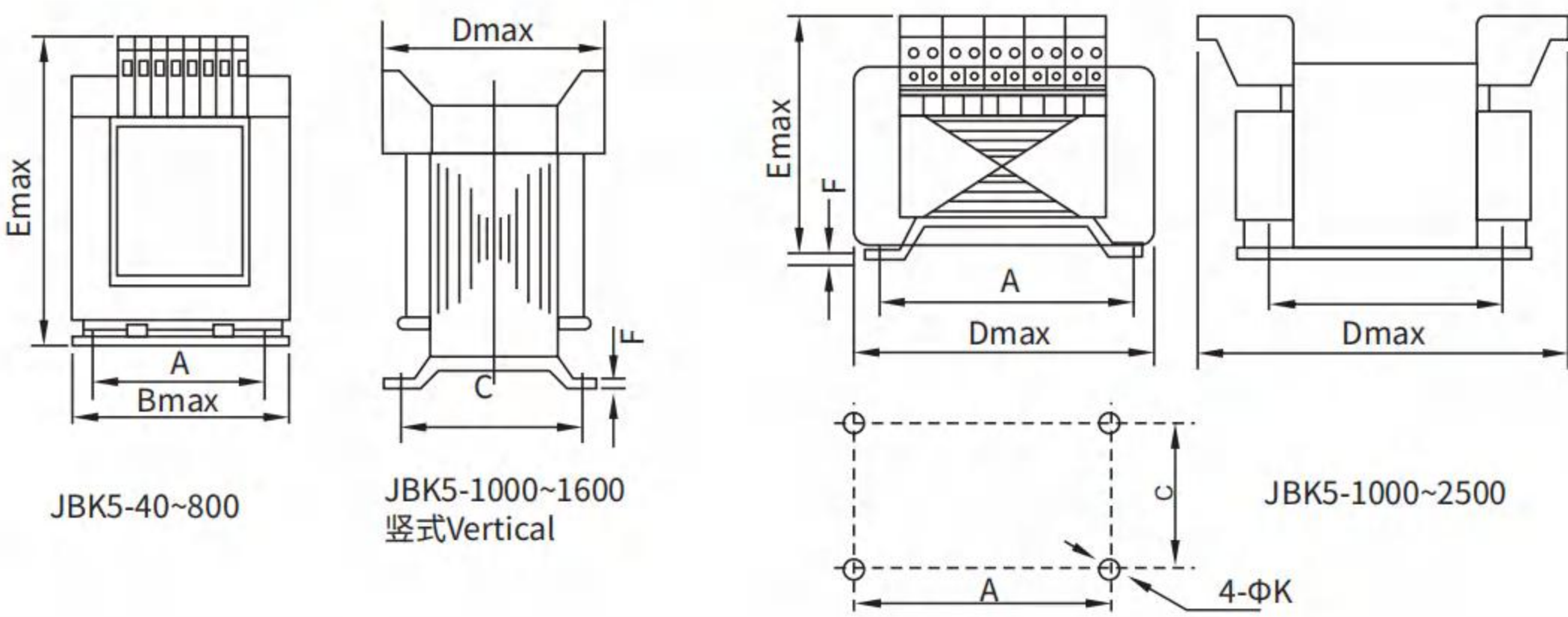
- 变压器的硅钢片与硅钢片之间的联接、硅钢片与底板联接均采用氩弧焊接工艺,形成一个整体,简捷明了。尤其是底板一次性成型,安装尺寸较JBK3系列更为准确,而采用优质防蚀合金材料,大大提高了接地性能的可靠性,全面提高了产品质量,该产品符合VDE0550、IEC204-1、IEC439、JB/T9446-1999、GB5226等有关国际、国家标准,并荣获欧共体“CE”认证,美国“UL”认证。可与国外产品互换作用。

The connection between the silicon steel sheet and the silicon steel sheet of the transformer, and the silicon steel sheet and the bottom plate are all welded by argon arc welding to form a whole, which is simple and clear. In particular, the bottom plate is formed at one time and the installation size is more accurate than the JBK3 series. The use of high-quality corrosion-resistant alloy materials greatly improves the reliability of grounding performance and comprehensively improves the product quality. The product complies with VDE0550, IEC204-1, IEC439, JB / T9446-1999, GB5226 and other relevant international and national standards, and won the European Community "CE" certification, the United States "UL" certification. Interchangeable with foreign products.

型号含义 Type designation



外形及安装尺寸 Shape and size of the installation



产品型号 Product model	外形尺寸 Overall dimensions			安装尺寸 Installation size		孔径 Aperture (K*J)
	B	D	E	A	C	
JBK3-40	78	72	90	56±0.5	51±3	4.8*9
JBK3-63	78	75	96	56±0.5	51±2	4.8*9
JBK3-100	85	92	105	64±0.5	67±0.5	4.8*9
JBK3-160	96	100	104	84±0.5	74±2	5.8*11
JBK3-250	96	100	122	84±0.5	88±2	5.8*11
JBK3-300	96	110	140	84±0.5	96±2	5.8*11
JBK3-400	120	128	142	90±0.5	90±2	7*13
JBK3-630	150	190	142	122±0.5	86±2	7*13
JBK3-800	150	125	155	122±0.5	100±2	7*13
JBK3-1000	155	225	153	127±2	152±2	7*13竖式
JBK3-1600	180	138	155	140±2	176±2	7*13竖式
JBK3-2500	205	160	160	173±2	200±2	7*13竖式
JBK5-40、63	78	72	90	56±0.15	46±0.125	4.6
JBK5-100	85	75	96	64±0.15	62±0.15	4.6
JBK5-160	96	92	105	84±0.175	73.5±0.15	5.5
JBK5-250	96	100	104	84±0.175	85±0.175	5.8
JBK5-400	120	100	122	90±0.175	85±0.175	5.8
JBK5-630	150	110	140	122±0.2	90±0.175	7
JBK5-800	150	128	142	122±0.2	105±0.2	7
JBK5-1000	150	190	142	126±0.2	155±0.2	7
JBK5-1000	168	125	155	105±0.2	138±0.2	9
JBK5-1600	170	225	153	140±0.2	176±0.2	7
JBK5-1600	168	138	155	116±0.2	138±0.2	9
JBK5-2500	194	160	160	172±0.2	195±0.23	7

JMB Line lighting transformer series

JMB 行灯照明变压器系列

变压器系列



产品概述 Product profile

- 行灯变压器是一种降压变压器。由于工厂里的“行车”都是金属构架，工人在行车上工作时，若使用高电压照明灯，漏电易造成人员伤亡，所以行车上使用36V及以下安全电压来作为照明用电。“行灯变压器”就是将220V或380V交流电通过变压器转换成36V及以下安全电压来进行局部照明的变压器。

The line light transformer is a step-down transformer. Since the "driving" in the factory is a metal frame, if workers use high-voltage lights when driving, the leakage is easy to cause casualties. Therefore, the safe voltage of 36V and below is used as lighting power. The "lighting transformer" is a transformer that converts 220V or 380V AC power through a transformer into a safe voltage of 36V and below for local illumination.

- 目前“行灯变压器”有单相和三相的，一般转换成12V、24V、36V等，主要用于低电压供电的场合。

At present, the "lighting transformer" has single-phase and three-phase, and is generally converted into 12V, 24V, 36V, etc., mainly used for low-voltage power supply.

技术指标 Technical indicators

- ▶ 初次级绕组分开绕制，当次级只有一个绕组时，它担负变压器的全部额定容量。次级如兼有控制、照明及指示灯绕组时，则按各绕组容量分配分别绕制，对单绕组且有中间抽头的变压器，其各中间抽头容量，皆小于变压器的额定容量，只有最高电压输出端可担负额定容量。

The primary and secondary windings are wound separately. When the secondary has only one winding, it assumes the full rated capacity of the transformer. If the secondary has both control, lighting and indicator windings, it is wound separately according to the capacity distribution of each winding. For the single-winding and intermediate-tapped transformer, the intermediate tap capacity is less than the rated capacity of the transformer, only the highest voltage. The output can bear the rated capacity.

适用环境 Applicable environmen

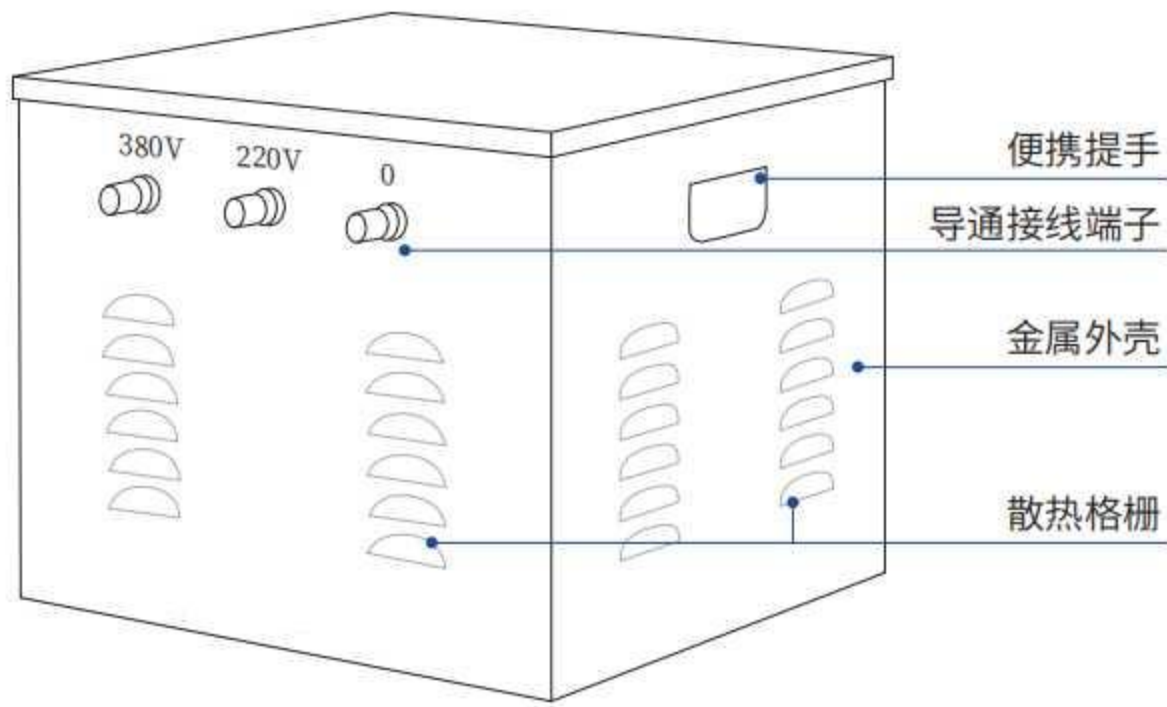
本变压器在下列条件下可靠工作

- 海拔高度不超过2500m；
- 环境空气温度：最高不超过40℃，最低不低于-25℃；
- 空气相对湿度：最湿月的平均最大相对湿度为90%；
- 无剧烈震动和冲动的地方；
- 在爆炸危险的介质中，且介质中无足以腐蚀金属和破坏绝缘的气体及导电尘埃的地方。
- 不受雨雪侵袭的场所。

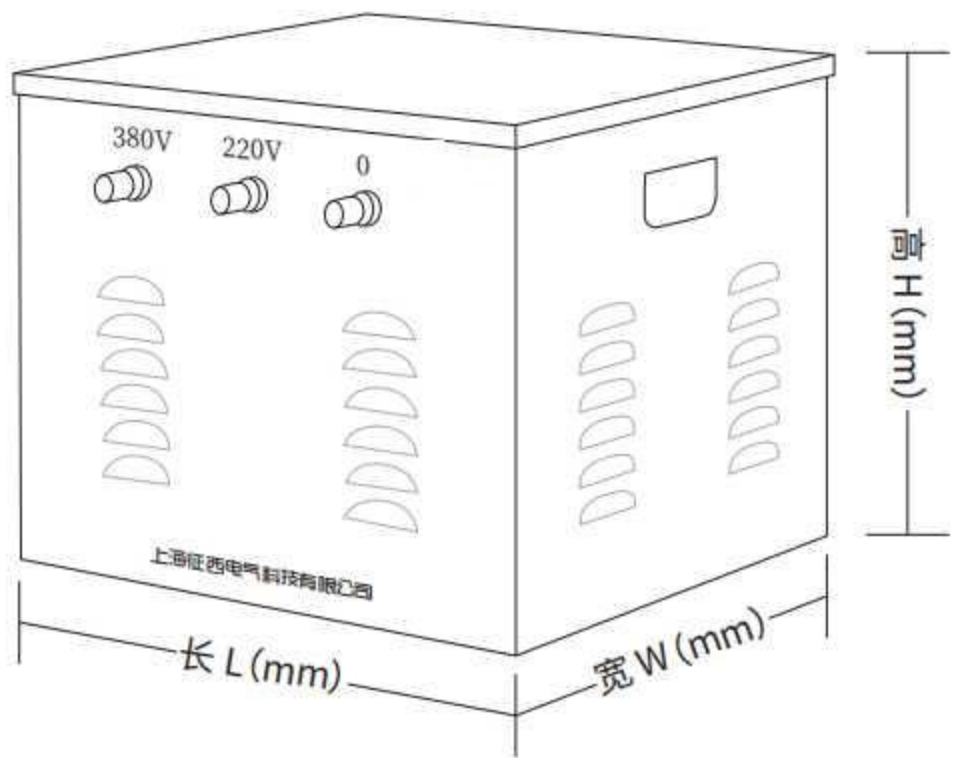
The transformer works reliably under the following conditions

- The altitude does not exceed 2500m;
- Ambient air temperature: no more than 40 ° C, the lowest is not lower than -25 ° C;
- Relative humidity of air: The average maximum relative humidity of the wettest month is 90%;
- places without severe vibration and impulsivity;
- In a medium without explosion hazard, and there is no place in the medium that is sufficient to corrode metals and destroy insulating gases and conductive dust.
- Locations that are not affected by rain or snow.

产品解析 Product analysis



外观尺寸 Appearance of size



变压器系列

技术参数 Main technical parameter

产品型号 Product model	初级电压 Primary voltage	次级电压 Secondary voltage	尺寸(mm) 长x宽x高 L x W x H
JMB 50-100VA	220V 380V 根据客户需求而定	6.3、12、14、36 110、127、220 380或根据用户需求而定	120*200*115
JMB-200VA			150*130*130
JMB-300VA			170*150*150
JMB-500VA			200*175*170
JMB-1KVA			230*210*180
JMB-2KVA			265*250*220
JMB-3KVA			300*250*230
JMB-5KVA			355*290*280
JMB-10KVA			400*320*320

型 号 model	JMB系列 JMB series		
输入电压 Input voltage	根据用户要求定做各种电压 (1500v以下电压) 如: 110、220、360、380、400v、415、440、660等 Customized various voltages (voltage below 1500v) according to user requirements Such as: 110, 220, 360, 380, 400v, 415, 440, 660, etc.		
输出电压 Output voltage	根据用户要求定做各种电压 (1500v以下电压) 如: 6.12、24、36、48、110、200、220、380、415、660、690、1140v等 Customized various voltages (voltage below 1500v) according to user requirements Such as: 6, 12, 24, 36, 48, 110, 200, 220, 380, 415, 660,690, 1140v, etc.		
工作效率 Work efficiency	≥98%		
频 率 frequency	50HZ/60HZ		
波形失真 Overload protection	无附加波形失真 No additional waveform distortion		
电气强度 Electrical strength	工频正弦电压2000v历时1分钟无击穿及闪烁现象 Power frequency sinusoidal voltage 2000v for 1 minute without breakdown and flicker		
过载保护 Waveform distortion	二倍额定电流可维持1分钟 Double rated current can last for 1 minute		
环境温度 Ambient temperature	-5℃~40℃ 24h平均低于35℃ The average temperature is lower than 35℃ in 24h		
相对湿度 Relative humidity	≤90%		
绝缘电阻 Insulation resistance	≥10MΩ		
绝缘等级 Insulation class	F级、H级、HC级可供选 (常规为F级) Class F, Class H, and HC are available (normally Class F)		
温 升 temperature rise	≤60℃		
可变输出 Variable output	220V、380V转6V、12V、24V、36V		
冷却方式 cooling method	自冷式 Self-cooling		
冷却形式 Cooling form	干式 Dry		
铁心形式 Iron form	芯式 Core		
防潮方式 Moisture proof method	开放式 Open		
海拔高度 Altitude	1000m		

行灯照明变压器

电子工厂、中煤矿、隧道照明设备、切割机床工厂、数控机床
模具工厂车间、造纸机械设备、视频机械厂等皆可适用



SBK Three-phase dry type transformer series

SBK 三相干式变压器系列



产品概述 Product profile

- ▶ SBK系列三相干式变压器, 适用于交流50~60Hz, 输入电压不超过1000V的电路中, 作为各类机床、机械设备等一般电器的控制电源、局部照明及指示电源、也可作为小型动力电源用。

SBK series three-phase dry-type transformer, suitable for AC 50 ~ 60Hz, input voltage does not exceed 1000V in the circuit, as a variety of machine tools, mechanical equipment and other general electrical control power, local lighting and indicating power, can also be used as a small power Power supply.

结构特征 Structure

- ▶ SG、SBK系列三相干式变压器可制成开启式或防护式, 具有损耗低、噪声小、防火性能好和不污染环境等优点。变压器按产品的用途分为控制变压器和照明变压器; 控制变压器是属于固定式变压器; 照明变压器除机床用的照明变压器之外, 属于可移式变压器。变压器的铁芯采用冷轧硅钢片, 铁轭两侧以型钢或钢板作夹件, 通过螺杆加以紧固。产品按结构分为开启式和防护式两种, 防护式是采用钢板加工成箱壳, 变压器在箱壳内部, 箱壳外有进出线孔, 以便安装电源线路。必要时可按用户要求增加电压表、电流表、温控仪、转向轮等, 以便移动。

SG and SBK series three-phase dry-type transformers can be made into open or protective type, with the advantages of low loss, low noise, good fire performance and no pollution to the environment. Transformers are divided into control transformers and lighting transformers according to the purpose of the products; control transformers are fixed transformers; lighting transformers are portable transformers except for lighting transformers for machine tools. The iron core of the transformer is made of cold-rolled silicon steel sheet, and the steel yoke is clamped on both sides by a steel or steel plate and fastened by a screw. According to the structure, the product is divided into two types: open type and protective type. The protective type is made of steel plate into a case, the transformer is inside the case, and there is an inlet and outlet hole outside the case to install the power line. If necessary, increase the voltmeter, ammeter, temperature controller, steering wheel, etc. according to user requirements, in order to move.

正常使用条件 Normal use condition

- 海拔: 安装地点的海拔不超过2000m;
- 温度: 周围空气温度不超过+40°C, 且其24h内的平均温度值不超过+35°C, 周围空气温度的下限为-5°C;
- 湿度: 最高温度为+40°C时, 空气的相对湿度不超过50%; 在较低的温度下可以允许有较高的相对湿度, 例如+20°C达90%;
- 安装在无剧烈震动和冲击振动的地方;
- 在无爆炸危险介质中, 且介质中无腐蚀金属和破坏绝缘的气体及导电尘埃的地方。
- 输入输出电压可根据客户需求定制
- Altitude: the altitude of the installation site does not exceed 2000m;
- Temperature: the ambient air temperature does not exceed +40°C, and the average temperature within 24 h does not exceed +35°C, the lower limit of ambient air temperature is -5°C;
- Humidity: When the maximum temperature is +40°C, the relative humidity of the air does not exceed 50%; at lower temperatures, higher relative humidity can be allowed, for example, 90% at +20°C;
- Installed in places where there is no severe vibration or shock vibration;
- In a non-explosive hazardous medium, where there is no corrosive metal and insulating gas and conductive dust.
- Input and output voltage can be customized according to customer needs

技术参数 Main technical parameter

型 号 model	SBK
相 数 Phase	三相 Three phase
容 量 capacity	0.5KVA-2000KVA
输入电压 Input voltage	根据用户需求定制各种电压 Customize various voltages according to user needs
输出电压 Output voltage	根据用户需求定制各种电压 Customize various voltages according to user needs
输出电压准确性 Output voltage accuracy	±1%
电压变动率 Voltage change rate	≤1.5%
波形失真 Waveform distortion	无失真(与输入波形比较) No distortion (compared to the input waveform)
绝缘等级及IP等级 Insulation class and IP rating	F级、H级、HC级可供选择(常规为F级) IP等级: IP00、IP20 等 Class F, Class H, and HC are available (normally Class F) IP rating: IP00, IP20, etc.
工作效率 Work efficiency	≥98%

QSG/SG Three-phase dry isolation transformer series

QSG/SG 三相干式隔离变压器系列

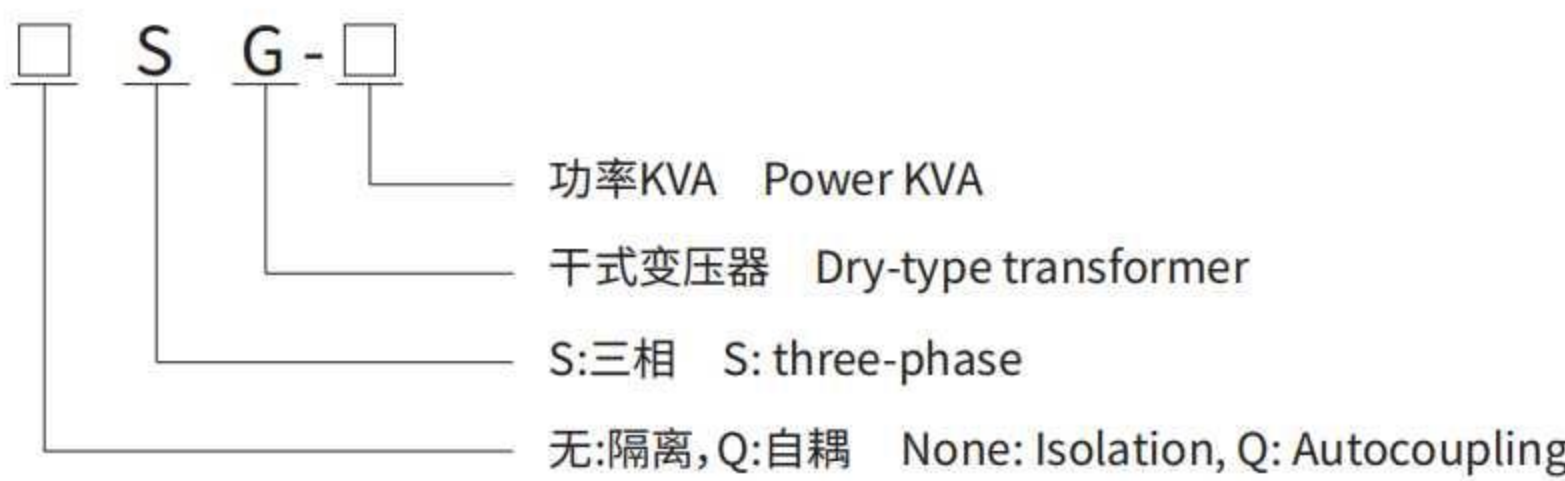


产品概述 Product profile

- QSG/SG三相干式隔离变压器是本厂在参照国际同类产品, 结合我国国情的基础上研制生产的新一代节能型电力变压器, 从300VA到1600KVA之间, 符合IEC439、GB5226等国际、国家标准, 绕组采用脱胎整列绕制方法; 变压器进行真空浸漆, 使变压器的绝缘等级达到F级或H级, 产品性能达到国内外先进水平。QSG/SG系列三相干式隔离变压器广泛适用于交流50Hz至60Hz, 电压2000V以下的电路中, 广泛用于进口重要设备、精密机床、机械电子设备、医疗设备、整流装置、照明等。产品的各种输入、输出电压的高低、联接组别、调节抽头的多少及位置 (一般为±5绕组容量的分配、次级单相绕组的配备、整流电路的运用、是否要求带外壳等, 均可根据用户的要求进行精心的设计与制造。

QSG/SG three-phase dry isolation transformer is a new generation energy-saving power transformer developed by the factory based on international similar products and combined with China's national conditions, from 300VA to 1600KVA, in line with international and national standards such as IEC439 and GB5226. The winding adopts the method of winding out the whole row; the transformer is vacuum-impregnated, so that the insulation grade of the transformer reaches F grade or H grade, and the product performance reaches the advanced level at home and abroad. QSG/SG series three-phase dry isolation transformer is widely used in circuits with AC 50Hz to 60Hz and voltage below 2000V. It is widely used in importing important equipment, precision machine tools, mechanical and electronic equipment, medical equipment, rectifiers, lighting, etc. The various input and output voltages of the product, the connection group, the number and position of the adjustment taps (generally $\pm 5\%$), the distribution of the winding capacity, the configuration of the secondary single-phase winding, the operation of the rectifier circuit, whether it is required The outer casing and the like can be carefully designed and manufactured according to the requirements of the user.

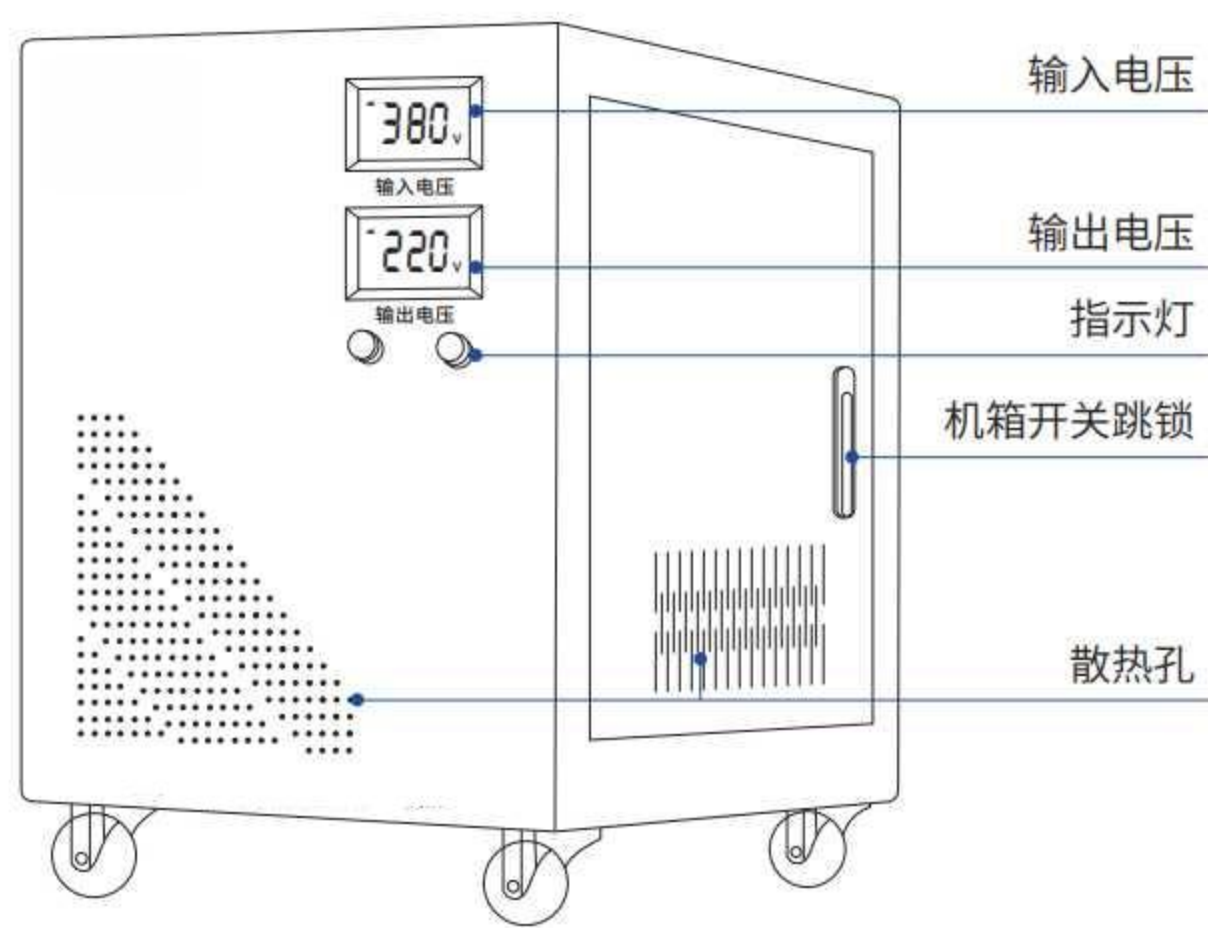
型号含义 Type designation



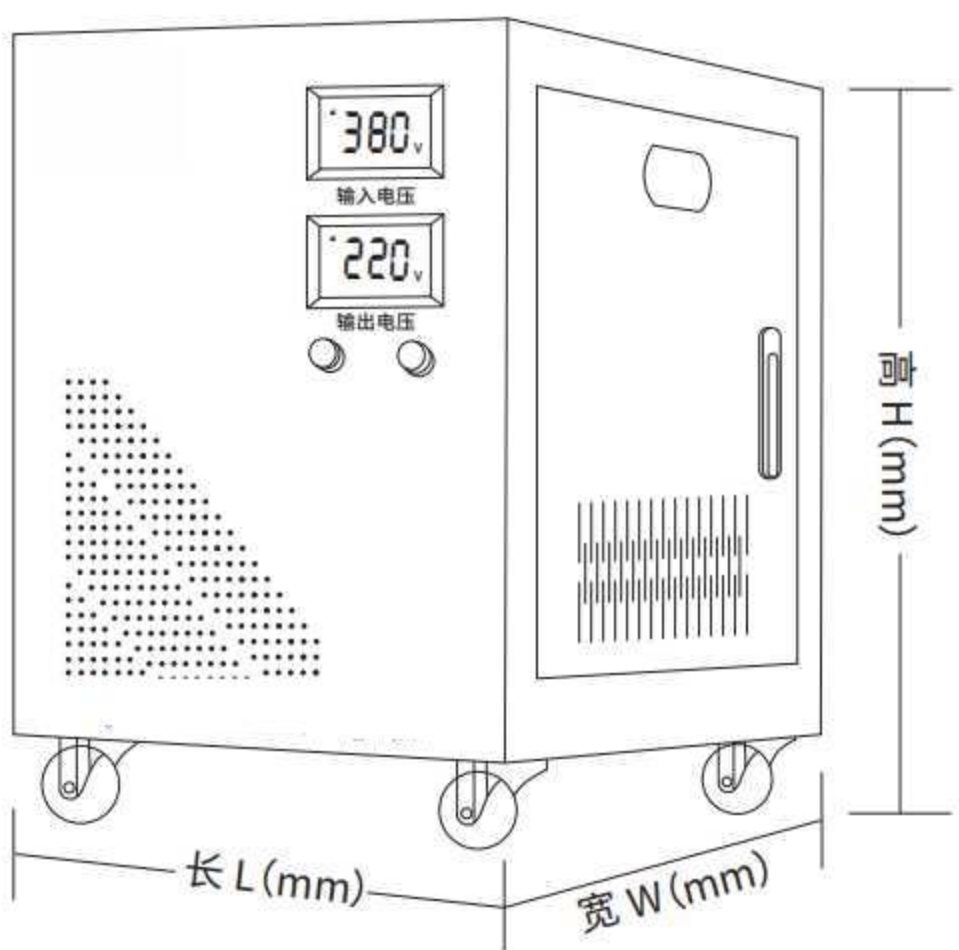
正常使用条件 Normal use condition

- 海拔高度不超过2500M;
 - 周围介质温度: 不低于-25℃, 不高于+40℃;
 - 电流电压波形似于正弦波;
 - 不受雨雪侵蚀的场所, 无显著摇动和冲击振动的地方;
 - 无爆炸危险的介质中, 且介质中无足以腐蚀金属和破坏绝缘的气体及导电尘埃;
 - 输入输出电压可根据客户需求定制
- The altitude does not exceed 2500M;
 - Ambient medium temperature: no lower than -25 °C, no higher than + 40 °C;
 - The current and voltage waveform is similar to a sine wave;
 - Places not subject to rain and snow erosion, and places without significant shaking and shock vibration;
 - In the medium without explosion danger, and in the medium, there is no gas and conductive dust sufficient to corrode metals and destroy insulation
 - Input and output voltage can be customized according to customer needs

产品解析 Product analysis



外观尺寸 Appearance of size



技术参数 Main technical parameter

带机壳尺寸 Dimensions with housing

产品型号 Product model	输入电压 Input voltage	输出电压 Output voltage	尺寸 (mm) 长x宽x高 L x W x H
QSG-5KVA	默认380V 660V 440V 380V 220V (可定制电压)	默认220V 1140V 690V 660V 440V 415V 400V 380V 220V 110V (可定制电压)	390*300*330
QSG-8KVA			450*300*390
QSG-10KVA			450*300*390
QSG-15KVA			505*350*420
QSG-20KVA			505*350*420
QSG-25KVA			350*500*520
QSG-30KVA			540*380*420
QSG-40KVA			570*420*460
QSG-50KVA			400*550*570
QSG-60KVA			450*600*620
QSG-70KVA			450*600*620
QSG-80KVA			450*600*620
SG-3KVA	默认380V 660V 440V 380V 220V (可定制电压)	默认220V 1140V 690V 660V 440V 415V 400V 380V 220V 110V (可定制电压)	340*300*330
SG-5KVA			420*330*360
SG-10KVA			460*350*450
SG-15KVA			490*390*450
SG-20KVA			520*430*470
SG-25KVA			580*460*450
SG-30KVA			580*460*540
SG-50KVA			750*480*690
SG-80KVA			800*500*740
SG-100KVA			900*550*840

不带机壳尺寸 Dimensions without housing

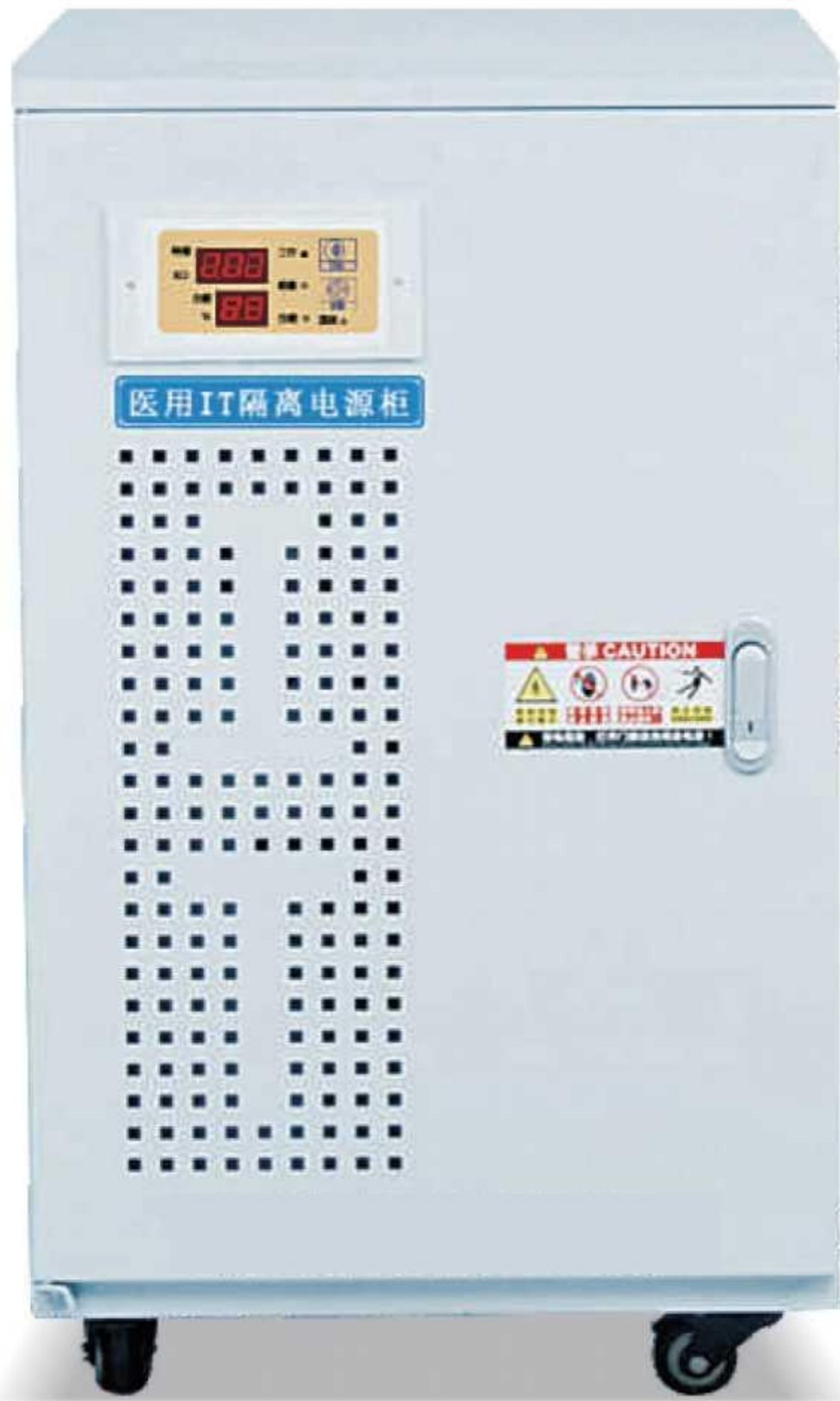
产品型号 Product model	输入电压 Input voltage	输出电压 Output voltage	尺寸 (mm) 长x宽x高 L x W x H
QSG-0.5KVA	默认380V 660V 440V 380V 220V (可定制电压)	默认220V 1140V 690V 660V 440V 415V 400V 380V 220V 110V (可定制电压)	120*88*120
QSG-1KVA			180*120*155
QSG-2KVA			180*140*155
QSG-3KVA			240*145*205
QSG-5KVA			240*155*205

产品规格 Product specifications

型 号 model	QSG/SG
相 数 Phase	三相 Three phase
电压精准度 capacity	±1%
电压变动率 Voltage change rate	≤1.5%
波形失真度 Distortion of output waveform	无失真(与输入波形比较) No distortion (compared to input waveform)
绝缘等级 Insulation class	F级、耐高温150° Class F, high temperature resistance 150 °
绝缘电阻 Insulation resistance	≥150MΩ
工作效率 Work efficiency	感应式(隔离式)≥99% Inductive (isolated) ≥99%
抗电强度 Dielectric strength	2000VA/1min
过载能力 Overload capacity	允许超过1.2倍额定负载 It is allowed to exceed 1.2 times of rated load
设计寿命 Design life	30年 30 years
噪 音 noise	≤35dB(一公尺内) ≤35dB (within one meter)
冷却方式 cooling method	干式风冷 Dry air cooling
温 升 Temperature rise	≤60℃
频 率 frequency	50/60Hz
工作环境 working environment	温度: -20~+45℃湿度: ≤95%RH不结露 Temperature: -20 ~ +45 ° C Humidity: ≤ 95% RH does not condense
工作场所 workplace	无腐蚀性气体及导电粉尘 Non-corrosive gas and conductive dust
安规标准 Safety standard	产品符合VDE0550、IEC439、JB5555、GB226等国际国家标准 Products comply with international national standards such as VDE0550, IEC439, JB5555, GB226
联接方式 Connection method	Y/△ 组合 Any combination of Y/△
备货情况 Stocking situation	1~300KVA标准机型均备有现货,所有规格均以标准化生产。 The 1~300KVA standard models are available in stock, and all specifications are produced in a standardized manner.

ES710 Medical transformer series

ES710 医疗变压器系列



产品概述 Product profile

- ▶ 医用隔离变压器专用于医疗IT系统。有常规单相医用隔离变压器和特殊的三相医用隔离变压器两种, 其常规容量在3.15-10kVA之间, 产品铁芯采用进口的优质精密硅钢片叠加而成, 具有损耗小、转换率高的特点。绕组与绕组之间采用了双重绝缘处理, 仅设计了静电屏蔽层, 最大程度减少了两绕组之间的电磁干扰。绕组内安装了温度传感器, 可用于监测绕组温度。变压器整体采用真空浸漆处理。增加了机械强度并具有抗腐蚀、温升小、低噪音的特点, 专为医疗场所量身定制。
- Medical isolation transformers are dedicated to medical IT systems. There are two types of conventional single-phase medical isolating transformers and special three-phase medical isolating transformers. The conventional capacity is between 3.15-10kVA. The product core is superimposed by imported high-quality precision silicon steel sheets. Features. Double insulation is adopted between the winding and the winding, and only the electrostatic shielding layer is designed to minimize the electromagnetic interference between the two windings. A temperature sensor is installed in the winding to monitor the winding temperature. The transformer is vacuum-painted as a whole. Increased mechanical strength and features of anti-corrosion, low temperature rise and low noise, tailor-made for medical places.

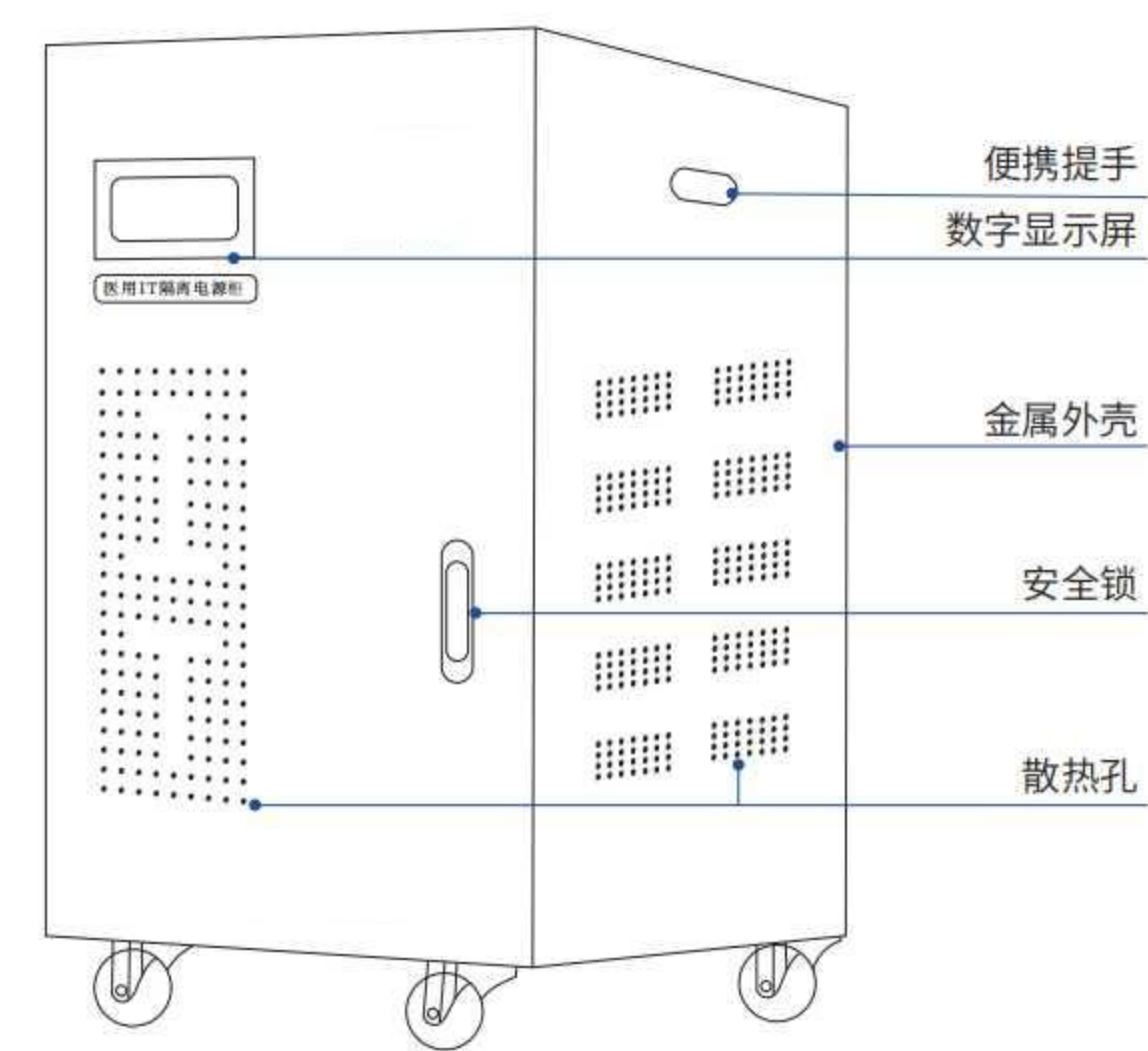
- ▶ 交流通断试验、交流电寿命试验、可靠性试验、闪络击穿测试、综合性实验、高低温及耐高温测试、交变及恒定湿热测试、球压测试、漏电及老化测试、跌落及振动试验、超声成像无损检测、塑料力学性能试验、塑料阻燃及电气性能测试、碳硫分析试验、硅钢片损毁测试、化学分析试验。
- AC on-off test, AC life test, reliability test, flashover breakdown test, comprehensive test, high and low temperature and high temperature test, alternating and constant humidity and heat test, ball pressure test, leakage and aging test , Drop and vibration test, non-destructive testing of ultrasonic imaging, plastic mechanical property test, plastic flame retardant and electrical performance test, carbon and sulfur analysis test, silicon steel sheet damage test, chemical analysis test.

适用范围 Scope of application

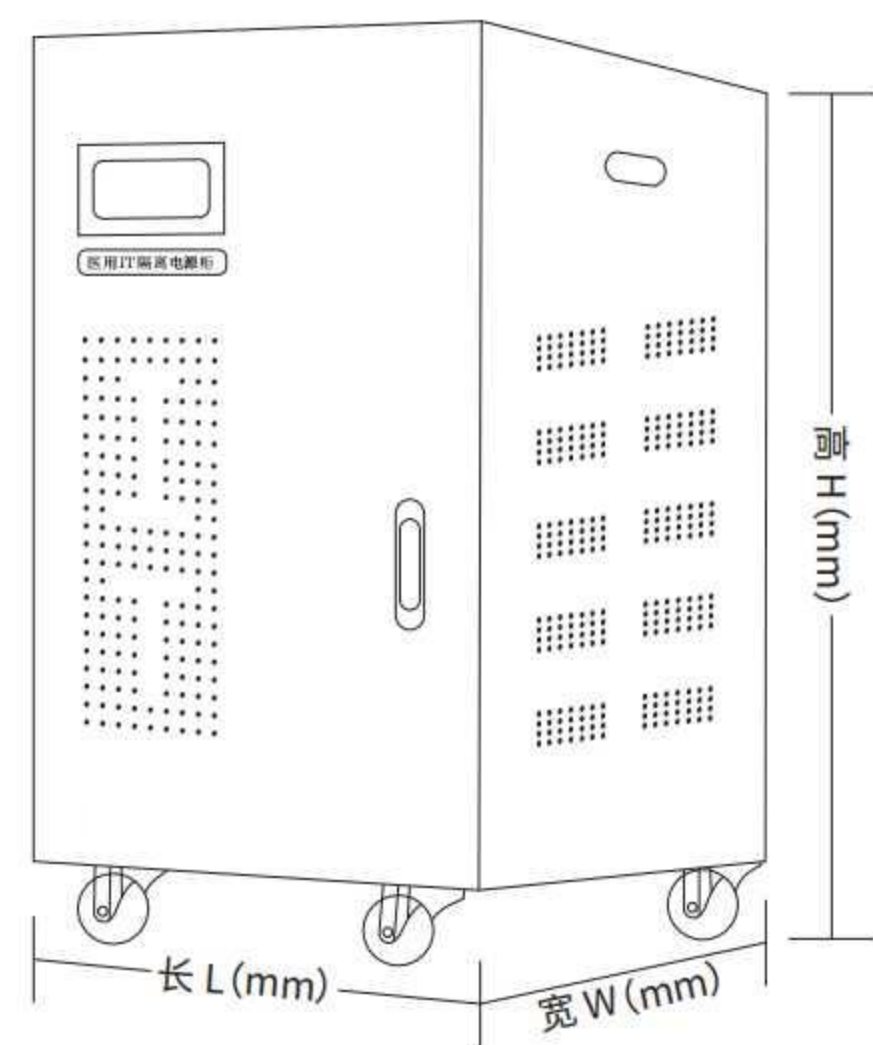
- ▶ 医用隔离变压器将医疗地区的非保护区和保护区域的电气线路隔开, 保护区域内所有带电导体是与地隔离的, 防止线路绝缘层上危险电流造成微电击。保证对该场所内的医疗电器提供一个安全可靠地电源以确保安全。
- The medical isolation transformer separates the non-protected area of the medical area from the electrical line of the protected area. All the live conductors in the protected area are isolated from the ground to prevent micro electric shock caused by dangerous current on the line insulation layer. Ensure that the medical appliances in the site are provided with a safe and reliable power source to ensure safety.

功能特点 Main features
绝缘等级 F / H (ta max 46°C)
保护等级 IP00
工作等级 较久性工作
报警方式 声光报警/可选电话报警
绝缘测量范围 0-999KΩ
散热方式 高于40°C时风扇散热
工作环境温度 -10-+60°C
噪音低于35分贝
完全符合GB16895.24-2005和GB19212.16
Insulation class F / H (ta max 46)
Protection level IP00
Work level longer work
Alarm mode Sound and light alarm / optional telephone alarm
Insulation measurement range 0-999KΩ
Heat dissipation method Fan cooling above 40 °C
Working environment temperature -10-+60°C
Noise is less than 35 decibels
Fully compliant with GB16895.24-2005 and GB19212.16

产品解析 Product analysis



外观尺寸 Appearance of size



技术参数 Main technical parameter

产品型号 Product model	输入电压 Input voltage	输出电压 Output voltage	尺寸(mm)长x宽x高 L x W x H
ES710-4KVA	220V	220V	218*290*185
ES710-5KVA			260*330*235
ES710-6.3KVA			260*330*235
ES710-8KVA			260*355*280
ES710-10KVA			410*440*350
ES710-15KVA			520*470*420

型 号 model	ES710
产品名称 product name	医用隔离变压器 Medical isolation transformer
频 率 frequency	50HZ/60HZ
波形失真 Waveform distortion	无附加波形失真 No additional waveform distortion
电压变动 Voltage change	≤1.5%
产品适用 Product application	各类医疗器械 Various medical devices



STK Long-distance transmission step-up transformer series

STK 远距离传输升压降压变压器系列



产品概述 Product profile

- "隧道专用升压器"一步到位解决远距离输送电压低问题。主要适用于各种隧道(矿井)的机电设备,因线路远,布线细,末端电压低,设备无法正常工作,由此情况专门设计的隧道升压器。由洞口主变压器380V升压至1140V或2200V,升压按线径大小而定,洞内1000米到3000米由高压转换成低压410V、430V、450V,利用设备启动压降差,可有效满足设备正常工作启动电压。可解决末端电压低等隧道(矿井)机电设备无法正常工作等原因的理想改善方案。

"Special booster for tunnel" can solve the problem of low voltage in long-distance transmission in one step. It is mainly applied to electromechanical equipment of various tunnels (mines). Because of the long line, fine wiring, low terminal voltage, and equipment can not work normally, the tunnel booster specially designed for this situation. The main transformer 380V is boosted to 1140V or 2200V by the hole. The boost is determined by the wire diameter. The 1000m to 3000m in the hole is converted from high voltage to low voltage 410V, 430V, 450V. The device can effectively meet the pressure drop difference. Normal working start voltage. It can solve the ideal improvement plan for the reason that the mechanical and electrical equipment of the tunnel (mine) with low terminal voltage is not working properly.

远距离输送电网改善方案 Long-distance transmission grid improvement plan

- 高压电网输入:S11M-10/0.4→低压电网输出:10000V变压430V(调第三档输出)→油浸式电力稳压器:(隧道专用型)430V稳压410V→低压电容无功补偿柜负载获得无功电流提高功率因数→洞口放置隧道专用升压器:410V升压1000V(增压减小无损耗)→洞内放置隧道专用降压器:1000V降压380V、410V、440V→洞内用电设备:额定电压:380V。

High-voltage power grid input: S11M-10/0.4→ Low-voltage grid output: 10000V transformer 430V (adjust third output)→ oilimmersed power regulator: (tunnel-specific) 430V voltage regulator 410V→Low-voltage capacitor reactive power compensation cabinet load to obtain reactive current to improve power factor→Special booster for tunnel placement: 410V boost 1000V (boost reduction without loss)→Place in hole tunnel dedicated buck: 1000V step-down 380V, 410V, 440V → power equipment inside the hole: rated voltage: 380V.

技术参数 Main technical parameter

型 号	model	STK
相 数	Phase	三相 Three phase
输入电压	Input voltage	3300V 1140V 660V 440V 380V 220V(可按要求定制电压) (Customized voltage can be customized)
输出电压	Output voltage	3300V 1200V 1140V 660V 480V 460V 440V 415V 400V 380V 220V (可按要求定制电压)(Customized voltage can be customized)
稳压精度	Voltage regulation accuracy	±1%
波形失真	Waveform distortion	无失真(与输入波形比较) No distortion (compared to input waveform)
电压变动率	Voltage change rate	≤1.5%
绝缘等级	Insulation class	F级、H级、HC级可供选择(常规为H级) 耐温180度 Class F, H class, HC class available (regular H class) temperature resistance 180 degrees
工作效率	Work efficiency	自耦式≥99%感应式(隔离式) ≥95% Auto-coupling ≥99% inductive (isolated) ≥95%
频 率	frequency	50/60Hz
联接方式	Connection method	Y/Y、△/YO、YO/△, 隔离、自耦式(可选) Isolated, auto-coupled (optional)
过载能力	Overload capability	允许超过1.2倍额定负载工作4小时(可长期满载) Allows more than 1.2 times rated load to work for 4 hours (long-term full load)
温 升	Temperature rise	≤60℃
抗电强度	Dielectric strength	3000VAC/1min
工作环境	working environment	温度:-20~+45℃湿度: ≤95%RH不结露 Temperature: -20 ~ +45 ° C Humidity: ≤ 95% RH does not condense
安规标准	Safety standard	产品符合VDE0550、IEC439、JB5555、GB226等国际国家标准 Products comply with international national standards such as VDE0550, IEC439, JB5555, GB226
发货说明	Shipping Instructions	变压器属于定制机型,一般要7个工作日发货,如需赶工请与客服联系,所有规格均按国家标准生产,价格合理。 The transformer is a custom model, generally it takes 7 working days to ship. If you need to work, please contact customer service.All specifications are produced according to national standards and the price is reasonable.

DT Step-up step-down transformer series

DT 升压降压变压器系列



产品概述 Product profile

- DT型升降变压器是一种交流电压变换装置，它采用环形铁芯绕制，从而使功耗更小，效率更高，通过使用本产品后，将多种电网的电压转为通用的电压输出，所有的电子电气设备在额定功率下均能安全使用。

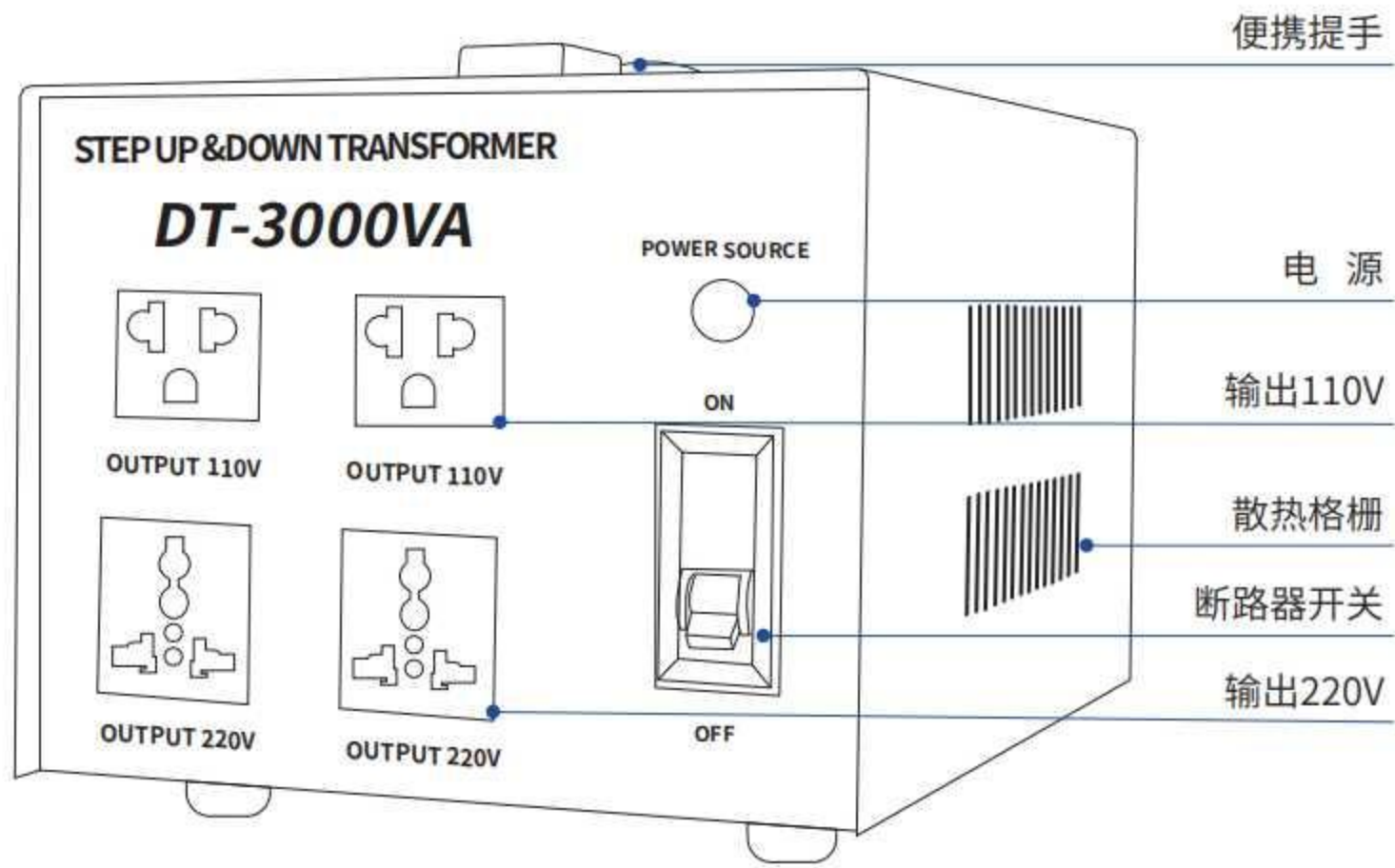
DT series step-up&down transformer is an AC voltage converting device.It is made of the wind with the annular ironcore.thus make the product have low power consumptionand high efficiency. Using it. to convert the multi kind net.voltage into a general output voltage under which all the electronic units are safe for use within the rated power range.

- 输入电压AC110V或220V
- 具有熔断保护器或过流保护器
- 输出电压AC220V或110V
- Input voltage :AC 110V or 220V
- With fuse protector or with over current protector
- Output voltage :AC220V or 110V

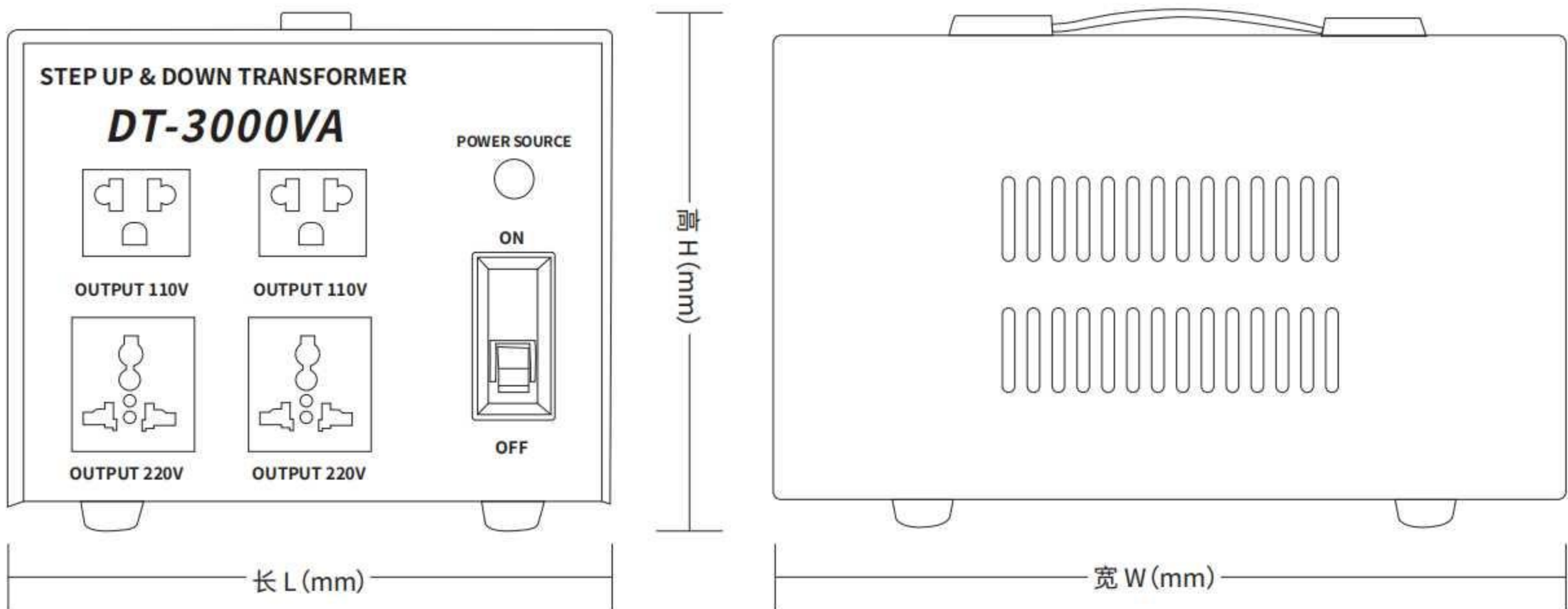
适用范围 Scope of application

- 主要适用于220V或者110V的电器使用，带双输出插座输出电压可以选择！日光电饭煲、吹风机、马桶盖、美国榨汁机、音箱等产品！
It is mainly suitable for 220V or 110V electrical appliances. The output voltage with dual output sockets can be selected! Nikko rice cookers, hair dryers, horse figurines, American juicers, speakers and more!

产品解析 Product analysis



外观尺寸 Appearance of size



DT升降变压器

进出口电器专用电压转换器

稳定快速 即插即用



技术参数 Main technical parameter

产品型号 Product model	额定功率 Rated Power	包装尺寸 Package Size(mm)
SDT-500	500W	445*305*190
SDT-1000	1000W	505*270*225
SDT-1500	1500W	505*315*225
SDT-2000	2000W	355*295*275
ST-100	100W	395*315*225
ST-200	200w	395*315*225
ST-300	300w	355*315*245
ST-500	500W	460*190*245

技术参数 Main technical parameter

产品型号 Product model	额定功率 Rated Power	包装尺寸 Package Size(mm)
ST-750	750W	315*220*245
ST-1000	1000W	300*255*215
ST-1500	1500W	300*255*215
ST-2000	2000W	340*255*215
ST-3000	3000W	340*255*215
ST-4000	4000W	405*285*240
ST-5000	5000w	405*285*240
ST-10000	10000W	425*320*300

DZW Single-phase to three-phase converter series

DZW 单相转三相转换器系列



产品概述 Product profile

- ▶ 经过 AC→DC→AC 变换的逆变电源称为单相转三相电源, 它有别于用于电机调速用的变频调速控制器。单相转三相电源的主要功用是将现有交流电网 220V 单相变换成三相380V 动力电的正弦波电源。理想的交流电源的特点是频率稳定、电压稳定、内阻等于零、电压波形为纯正弦波(无失真)。逆变电源十分接近于理想交流电源, 因此, 可完全替代偏远地区或无法申请三相电的地区, 但是单相转三相电源的输出功率由市电的 220V 的电流决定。DZW系列单相转三相电源, 以微处理器为核心, 以 MPWM 方式制作, 用主动元件 IGBT 模块设计, 采用了数字分频、D/A 转换、瞬时值反馈、正弦脉宽调制等技术, 使单机容量可达400KVA, 以隔离变压器输出来增加整机稳定性, 具有负载适应性强、输出波形品质好、操作简便、体积小、重量轻等特点, 具有短路、过流、过载、过热等保护功能, 以保证电源可靠运行。
- The inverter power supply after AC→DC→AC conversion is called single-phase to three-phase power supply, which is different from the variable used for motor speed regulation.Frequency control controller. The main function of the single-phase to threephase power supply is to convert the existing AC grid 220V into three-phase 380V power.Electric sine wave power supply. The ideal AC power supply is characterized by stable frequency, stable voltage, internal resistance equal to zero, and pure voltage waveform. Sine wave (no distortion). The inverter power supply is very close to the ideal AC power supply, so it can completely replace the remote area or cannot apply.Please ask for the three-phase area, but the output power of the single-phase to threephase power supply is determined by the 220V current of the mains. DZW series Phase-to-phase three-phase power supply, with microprocessor as the core, MPWM mode, designed with active component IGBT module, adopted Digital frequency division, D/A conversion, instantaneous value feedback, sinusoidal pulse width modulation and other technologies, so that the stand-alone capacity can reach 400KVA,Isolation transformer output to increase the stability of the whole machine, with strong load adaptability, good output waveform quality, easy operation and volume Small, light weight and other features, with short circuit, over current, overload, overheating and other protection functions to ensure reliable operation of the power supply.

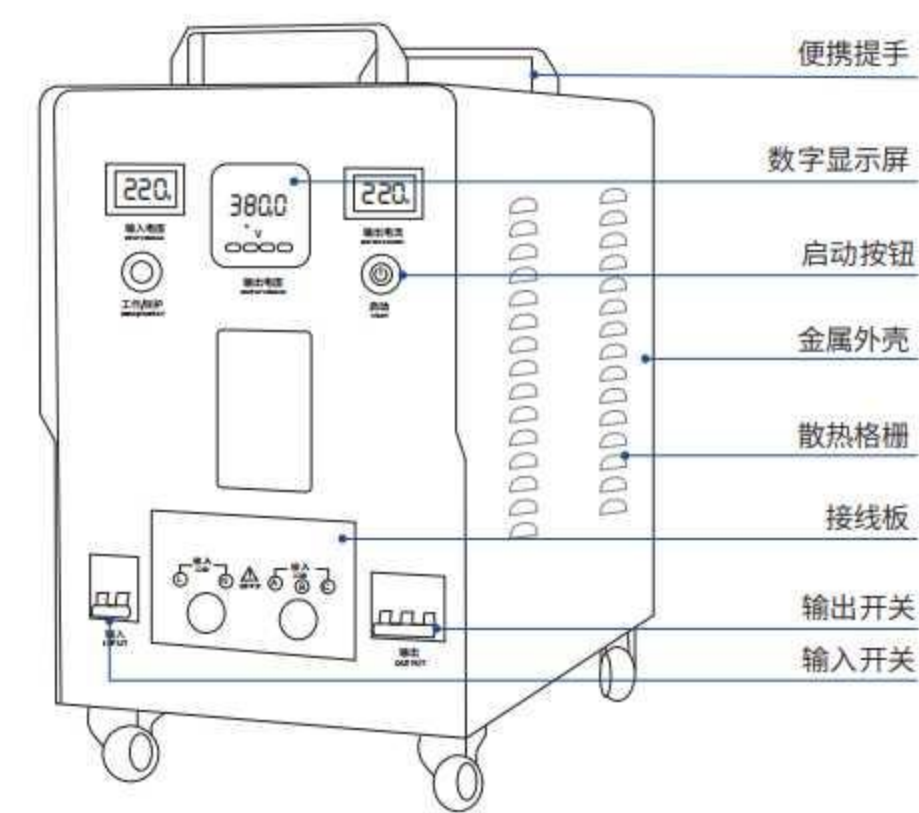
产品概述 Product profile

- ▶ 单相转三相电源, 采用交-直-交的电路结构, 使用 SPWM 调制控制技术, 将普通的单相电转为工业用的三相电。
单相转三相电源转换后的三相电为标准正弦波, 相位角为 120°, 谐波失真率小于2%,完全满足国家三相电电能质量标准, 适用于各种类型负载。
单相转三相电源解决一些地区因为三相电限电给生产带来的不便, 也解决了一些因场地限制无法申请到三相电的用户需求。
- ▶ Single-phase three-phase power supply, general-purpose direct / direct-current circuit structure, SPWM control technology used, general single-phase three-phase power for industrial use.
Single-phase conversion three-phase power conversion after three-phase power standard sine wave, phase angle 120°, tsunami loss rate small 2%, full-fledged national three-phase power mass standard, application in various types.
Single phase three-phase power supply solution for three-phase electric power supply due to inconvenient three-phase electric power production, inconvenient, three-phase electric power supply demand for three-phase electric power supply.

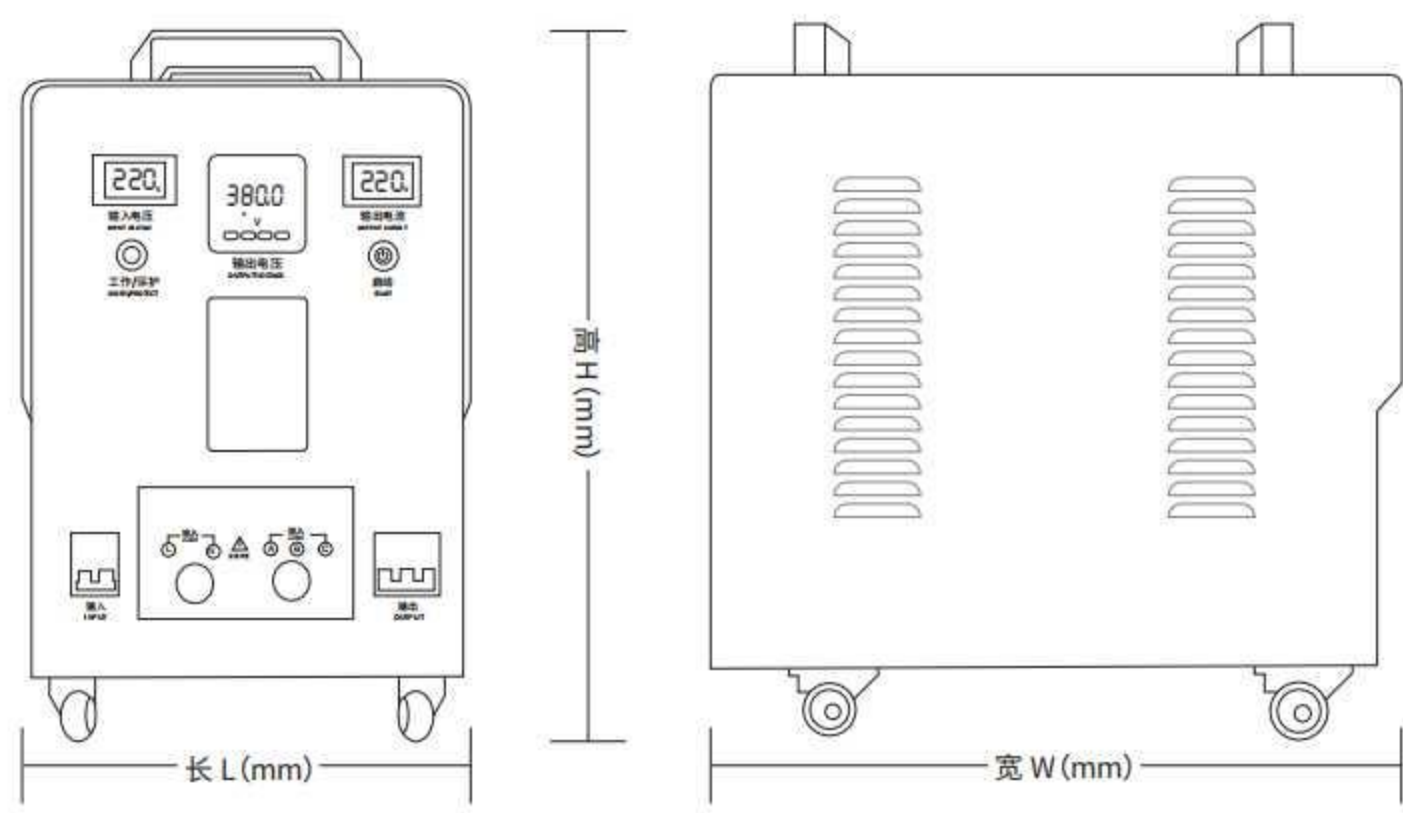
技术特点 Technical characteristics

- 普通市电输入, 省去申请三相电的繁琐手续及各种人工成本以及各种隐性成本
- 输出使用的是工业用三相电, 但是按民用单相电计费, 经济性好
- 核心元件均为进口器件, 性能稳定, 使用寿命长
- 安全可靠, 输入单相电与输出三相电完全电气隔离
- 输入宽压范围设计, 适应各地区普遍市电电压偏低的工作环境
- 输出保护功能完善, 有输出过压、过载、过温、短路、自诊断保护等多种保护
- 电源同时具有滤除市电扰动、干扰的功能, 是一个性能优异的稳频稳压电源, 为后端设备提供一个更稳定、更纯净的供电环境
- Ordinary City Electricity Import, Ministry of Application Three-phase Electric Prosperity Procedures and Various Artificial Compositions
- Three-phase electricity for industrial use, but single-phase electricity for civil use
- The core of the machine, the performance, the service life length
- Safely available, import single-phase electricity supply and export three-phase electricity complete gas isolation
- Import and pressure design, applicable area
- Various types of protection, such as export protection, perfection of transport, overpressure, overload, overheating, short circuit, self-determination protection, etc.
- Power supply simultaneous power control, electric power, dry performance, good performance, excellent power
- supply One equipment update, more power supply environment

产品解析 Product analysis



外观尺寸 Appearance of size



产品规格 Product specifications

产品型号 Product model	输入电压 Input voltage	输出电压 Output voltage	类 别 category	尺寸 (mm)长x宽x高 L x W x H
DZW-1.5KVA	180-250V	380±1-3%	三相三线 (普通款)	275*430*395
DZW-2.2~5.5KVA				275*430*395
DZW-7.5~11KVA				355*580*630
DZW-15KVA				350*580*630
DZW-20KVA				350*580*630
DZW-30KVA				730*455*655
DZW-40KVA				730*455*655
DZW-50KVA				730*455*655
DZW-1.5~5.5KVA	180-250V	380±1-3%	三相四线 (带零线)	550*350*620
DZW-7.5~11KVA				700*450*700
DZW-15KVA				700*450*700
DZW-20KVA				700*450*700
DZW-25KVA				700*450*700
DZW-30KVA				700*450*700
DZW-40KVA				450*700*1190

技术参数 Main technical parameter

频 率	frequency	50HZ/60HZ
工作温度	working temperature	-20°C~50°C
响应速度	response speed	10ms
调整速度	Adjust speed	100V/S
电路方式	Circuit mode	IGBT / PWM 调制 IGBT / PWM modulation
输出波形	Output waveform	标准正弦波 CF=1.4 Standard sine wave CF=1.4
输出电流	Output current	相电流 高档 41A 低档 82A Phase current high grade 41A low grade 82A
频率稳定	Frequency stability	≤0.01 %
负载稳压	Load regulation rate	≤1 %
波形失真	Waveform distortion	≤2 % (纯阻性负载) ≤2% (pure resistive load)
相 位 角	Phase angle	120°±1°
波峰因数比	Crest factor ratio	31
面板显示	Panel display	输出电压、输出电流、输出频率、输出功率及输出功率因数 (切换显示) Output voltage, output current, output frequency, output power, and output power factor (switch display)
保护功能	Protective function	输出过流保护、过压保护、过温度保护、短路保护、自诊断保、护及报警装置 Output overcurrent protection, overvoltage protection, over temperature protection, short circuit protection, self-diagnosis protection, protection and alarm device
保护反应时间	Protection reaction time	≤2ms
整机效率	Machine efficiency	≥87 %
绝缘耐压	Insulation withstand voltage	1800V AC/10mA/1min
绝缘阻抗	Insulation resistance	500V DC/50MΩ
冷却方式	cooling method	强制风冷 Forced air cooling
噪 音	noise	1m 处小于 60db Less than 60db at 1m
工作环境温度	Working temperature	0~45°
相对湿度	Relative humidity	0~95 % (非凝结状态) 0~95% (non-condensing state)

*注:请确定市电 220V 能承受电源的功率, 否则会出现掉电保护。
Note: Please make sure that the mains 220V can withstand the power of the power supply, otherwise there will be power failure protection.

SC(B)10/11/13 Dry casting transformer

SC(B)10/11/13 干式浇注变压器



产品概述 Product profile

- SCB11带填料薄绝缘干式变压器, 由于其线圈被环氧树脂包封, 所以难燃, 防火、防爆, 免维护, 无污染, 体积小, 可直接安装在负荷中心。同时科学合理的设计和浇注工艺使产品局部放电量更小, 噪声低, 散热能力强, 在强迫风冷条件下可以在140%额定负载下长期运行, 并配有智能温控仪, 具有故障报警、超温报警、超温跳闸以及黑闸子功能, 并通过RS485串行接口与计算机相连, 可以集中监视和控制。
- SCB11 with packing thin insulated dry-type transformer, because its coil is encapsulated by epoxy resin, it is difficult to burn, fireproof, explosion-proof, maintenance-free, pollution-free, small size, can be directly installed in the load center. At the same time, scientific and reasonable design and casting process make the product partial discharge smaller, low noise, strong heat dissipation capacity, long-term operation under 140% rated load under forced air cooling conditions, and equipped with intelligent temperature controller with fault alarm , over temperature alarm, over temperature trip and black brake function, and connected to the computer through RS485 serial interface, can be centralized monitoring and control.

- 由于该系列干式变压器具有以上特点, 因此广泛应用于输变电系统, 如宾馆饭店、机场、高层建筑、商业中心、住宅小区等重要场所, 以及地铁、冶炼电厂、轮船、海洋钻井平台等环境恶劣场所。
- Due to the above characteristics, this series of dry-type transformers are widely used in power transmission and transformation systems, such as hotels, airports, high-rise buildings, commercial centers, residential quarters, and other places, as well as subways, smelting power plants, ships, offshore drilling platforms, etc. Bad places.

产品主要优点 Product main advantages

损耗低、噪音低、局放低；	Low loss, low noise, and low discharge;
防潮性高、可靠性高、免维护；	High moisture resistance, high reliability and maintenance-free;
高压为多层分段圆筒式结构；	The high pressure is a multi-layer segmented cylindrical structure;
低压为带纵向气道箔式结构；	Low pressure is a longitudinal airway foil structure;
阻燃性树脂、固化成型；	Flame retardant resin, curing molding;
多功能温度保护控制系统；	Multi-function temperature protection control system;
方管夹件结构；	Square tube clamp structure;
温度场、噪声三维仿真的技术。	Technology for temperature field and noise 3D simulation.

型号含义 Type designation



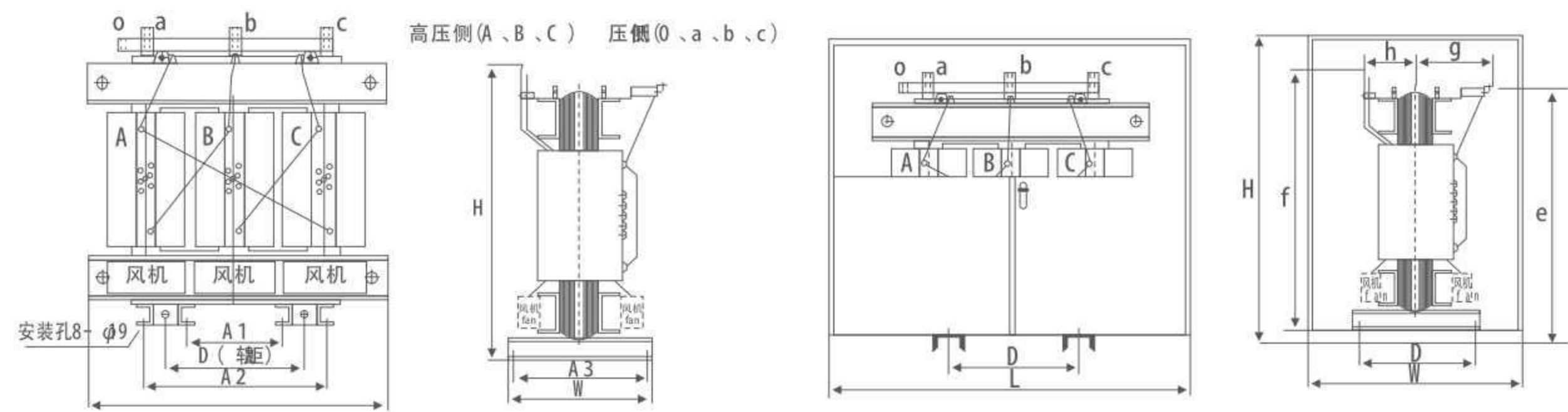
技术参数 Main technical parameter

10kV级SC(B)11系列树脂绝缘干式变压器技术参数
Technical parameters of 10kV grade SC(B)11 series resin insulated dry type transformer

额定容量 Rated Capacity	电压组合 (KV) Voltage combination	联结方式 Connection method	损耗 loss(KW)		空载电流 No-load current	阻抗电压(%) Impedance voltage
			空载 No load	负载(120℃) load		
30	高压 11 10.5 10 6.3 6 低压 0.4	Dyn11 或 Yyno	0.170	0.71	4	F/F
50			0.240	1.00		
63			0.330	1.21		
80			0.330	1.38		
100			0.360	1.57		
125			0.420	1.85		
160			0.480	2.13		
200			0.550	2.53		
250			0.640	2.76		
315			0.790	3.47		
400			0.880	3.99		
500			1.040	4.88		
630			1.200	5.88		
630			1.170	5.96		
800			1.360	6.96		
1000			1.590	8.13	6	
1250			1.880	9.69		
1600			2.200	11.73		
2000			2.740	14.45		
2500			3.240	17.17		
3150					5.140	

*注:由于产品的不断更新,表中参数会有一些变化,请以订货时提供的参数为准。
Note: Due to the continuous update of the product, there will be some changes in the parameters in the table, please refer to the parameters provided when ordering.

产品规格 Product specifications



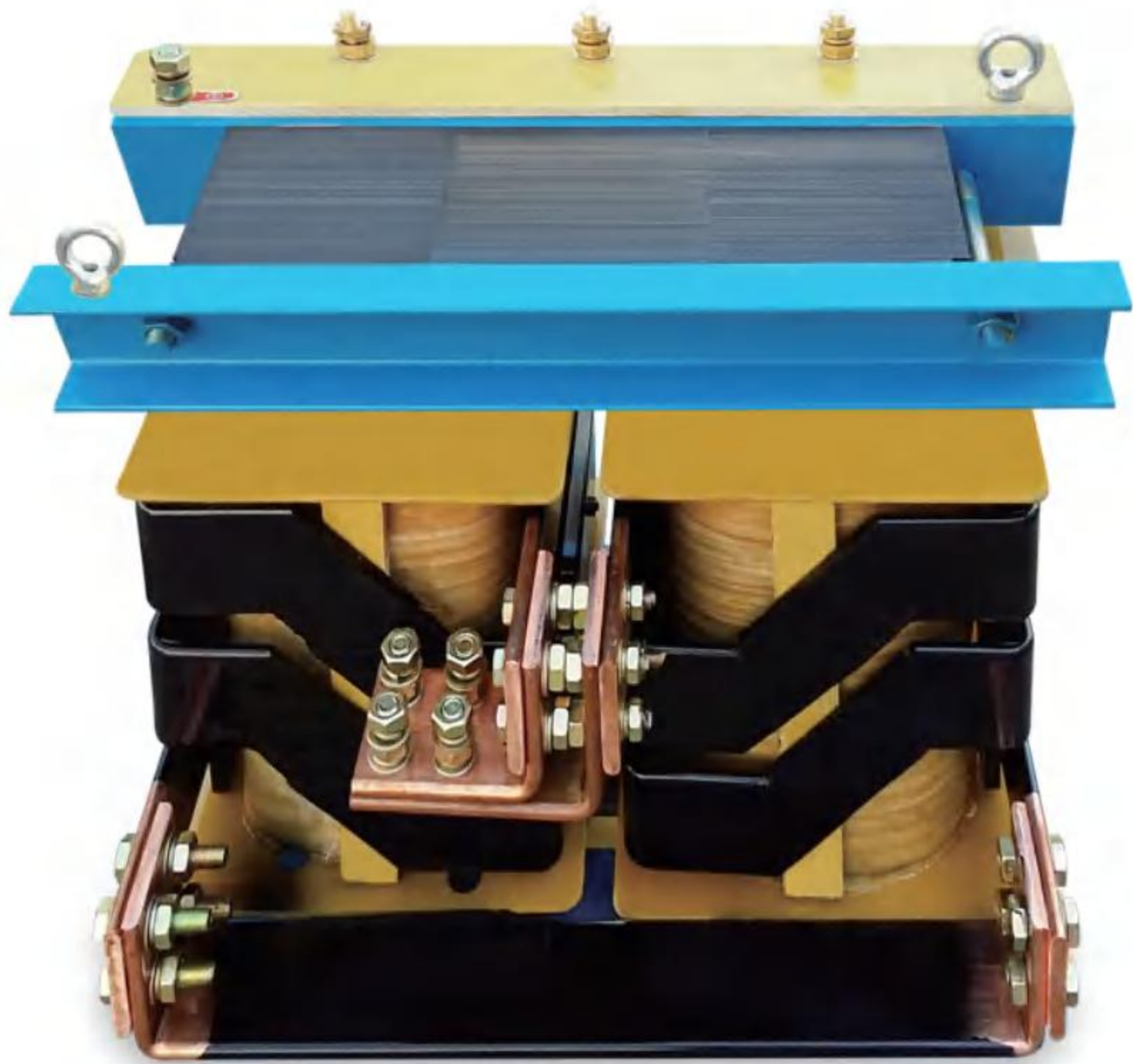
SC(B)11-□~□/10-0.4外形尺寸图

SC(B)11-□~□/10-0.4带外壳外形尺寸图

额定容量 Rated Capacity	外形尺寸 Dimensions (mm)							外形尺寸 Dimensions (mm)							
	L	W	H	D	A1	A2	A3	L	W	H	D	E	F	G	H
30	670	500	720	350	350	350	450	1050	800	1000	350	600	720	210	210
50	690	500	770	350	350	350	450	1050	900	1050	350	650	770	220	220
63	690	500	810	350	350	350	450	1050	900	1100	350	690	810	220	220
80	720	500	840	400	400	400	450	1100	900	1150	400	720	840	230	230
100	750	500	860	450	450	450	550	1150	1000	1150	450	740	860	240	240
125	950	600	910	550	550	550	550	1350	1050	1200	550	870	910	300	210
160	1020	600	960	550	550	550	550	1400	1050	1250	550	920	960	310	220
200	1070	600	1060	550	550	550	550	1450	1100	1350	550	1020	1060	315	225
250	1100	710	1120	660	660	660	660	1500	1150	1400	660	1090	1120	320	230
315	1120	710	1140	660	660	660	660	1500	1200	1450	660	1100	1140	325	235
400	1210	870	1240	660	660	660	660	1600	1250	1600	660	1130	1240	360	320
500	1240	870	1310	820	820	820	820	1600	1300	1650	820	1180	1310	370	330
630	1400	870	1400	820	820	820	820	1800	1300	1700	820	1280	1390	360	320
630	1460	870	1340	820	820	820	820	1850	1300	1650	820	1230	1340	350	310
800	1550	870	1460	820	820	820	820	1900	1300	1800	820	1340	1460	360	320
1000	1600	870	1620	820	820	820	820	1950	1300	1950	820	1430	1620	370	325
1250	1680	1120	1700	1070	1070	1070	1070	2050	1350	2000	1070	1490	1700	385	340
1600	1750	1120	1790	1070	1070	1070	1070	2100	1400	2100	1070	1570	1790	410	370
2000	1770	1120	1810	1070	1070	1070	1070	2150	1500	2100	1070	1520	1810	430	405
2500	1840	1120	1930	1070	1070	1070	1070	2200	1500	2200	1070	1640	1930	440	420
3150	1950	1120	1900	1070	1070	1070	1070	2350	1600	2250	1070	1600	1900	455	435

Low voltage high current transformer

低压大电流变压器



产品概述 Product profile

- ▶ 低压大电流变压器是隔离变压器一种特殊形式，分单相（DDG变压器）与三相（SDG）系列。本系列产品的特征是初级电压高，其次级电压很低而电流很大。此系列变压器无论试验、加热，均需从电源电压降压以升流，使低压电流达数千或万余安培。本系列产品的高压电压一般为220伏、380伏和650伏，其低压电压由升流大小而不同，自成一个系列。在采用本系列产品时，一般需要在电源前侧加电压调节，使低压侧达到无级调节。本变压器适用连续工作制、输出电压采用安全电压3V、6V、9V、12V、15V、24V、36V等（可根据客户要求设计）

Low voltage and high current transformer is a special form of isolation transformer, which is divided into single-phase (DDG transformer) and three-phase (SDG) series. This series is characterized by high primary voltage, low secondary voltage and high current. Regardless of testing and heating, this series of transformers need to step down from the power supply voltage to increase the current, so that the low-voltage current can reach thousands or 10,000 amps. The high voltage of this series of products is generally 220 volts, 380 volts and 650 volts. The low voltage of this series is different by the magnitude of the up current, and it is a series. When using this series of products, it is generally necessary to add voltage adjustment on the front side of the power supply to make the low-voltage side achieve stepless adjustment. This transformer is suitable for continuous working system, and the output voltage is 3V, 6V, 9V, 12V, 15V, 24V, 36V, etc. (can be designed according to customer requirements)

适应场地 Adapt to the site

- ▶ 适用于电焊机，点焊机，锅炉，电镀退火，等设备的连续负载实验及加热，断路，退火作升流之用以及电流互感器、断路器、接触器、热继电器、开关等，作为温升实验、保护特性实验、连续负载实验及电参数等测量实验的电源。

It is suitable for continuous load experiments and heating, disconnection and annealing of electric welding machines, spot welding machines, boilers, plating and forging annealing, etc. Power supply for temperature rise experiment, protection characteristic experiment, continuous load experiment and electrical parameter measurement experiment.

技术参数 Main technical parameter

型 号 model	DDG	
相 数 Phase	单相 Simplex	三相 Three phase
容 量 capacity	0.1kVA-200kVA	0.5kVA-1600kVA
输入电压 Input voltage	单相220V Single-phase 220V	三相380V Three-phase 380V
输出电压 Output voltage	单相220V(其他电压可定做) Single-phase 220V(Other voltages can be customized)	三相380V Three-phase 380V
波形失真 Waveform distortion	无失真(与输入波形比较) No distortion (compared to input waveform)	
电压变动率 Voltage change rate	≤1.5%	
绝缘等级 Insulation class	F级、H级、HC级可供选择(常规为H级)耐温180度 Class F, H class, HC class available (regular H class) temperature resistance 180 degrees	
工作效率 Work efficiency	感应式(隔离式)≥96% Inductive (isolated) ≥96%	
频 率 frequency	50/60Hz	
过载能力 Overload capability	允许超过1.2倍额定负载工作1小时(可长期满载) Allow more than 1.2 times rated load to work for 1 hour (can be full load for a long time)	
温 升 Temperature rise	≤60℃	
噪 声 noise	<35dB(一公尺内) <35dB (within one meter)	
绝缘电阻 Insulation resistance	≥150MΩ	
抗电强度 Dielectric strength	2000VAC/1min	
设计寿命 Design life	20年 20years	
工作环境 working environment	温度：-20~+50℃ 湿度：≤95%RH不结露 Temperature: -20 ~ + 50 °C Humidity: ≤95% RH non-condensing	
工作场所 workplace	无腐蚀性气体及导电粉尘 No corrosive gas and conductive dust	
安规标准 Safety standards	产品符合VDE0550,IEC439,JB5555\GB226等国际国家标准 Products comply with VDE0550, IEC439, JB5555 \ GB226 and other international national standards	
冷却方式 cooling method	干式风冷 Dry air cooling	

S11 Oil immersed power transformer

S11 油浸式电力变压器



产品概述 Product profile

- 我公司生产的三相油浸式配电变压器，器身采用了新型绝缘结构，提高了抗短路能力；铁芯由高质量冷轧硅钢片制成；高压绕组均选用优质无氧铜线为材料，并采用多层圆筒式结构；所有紧固件均采用特殊防松处理。
The three-phase oil-immersed distribution transformer produced by our company adopts a new insulation structure to improve the short-circuit resistance; the iron core is made of high-quality cold-rolled silicon steel sheet; the high-voltage windings are made of high-quality oxygen-free copper wire. And a multi-layered cylindrical structure; all fasteners are specially secured against loosening.
- 产品具有高效率，低损耗的特点，可节省大量的电耗和运行费用，社会效益显著，是国家推广的高新技术产品。
The product has the characteristics of high efficiency and low loss, which can save a lot of power consumption and running cost, and has significant social benefits. It is a high-tech product promoted by the state.

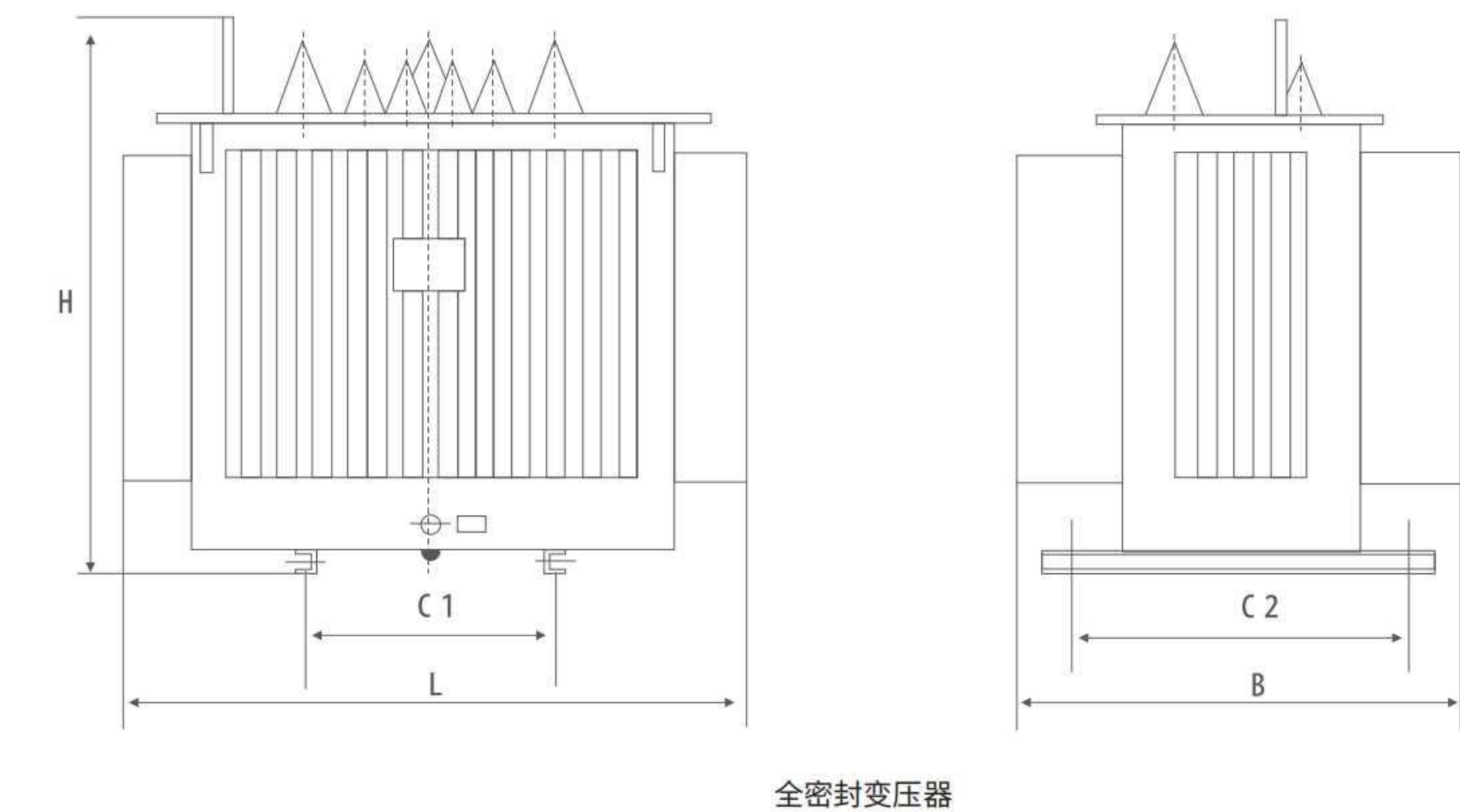
正常使用条件 Normal use condition

海拔高度不超过1000m环境温度：	The altitude does not exceed 1000m ambient temperature:
最高气温+40℃；	Maximum temperature +40℃;
最热月平均气温+30℃；	The hottest month average temperature +30℃;
最高年平均气温+20℃；	The highest annual average temperature is +20℃;
户外最低气温-25℃。	The minimum outdoor temperature is -25℃.

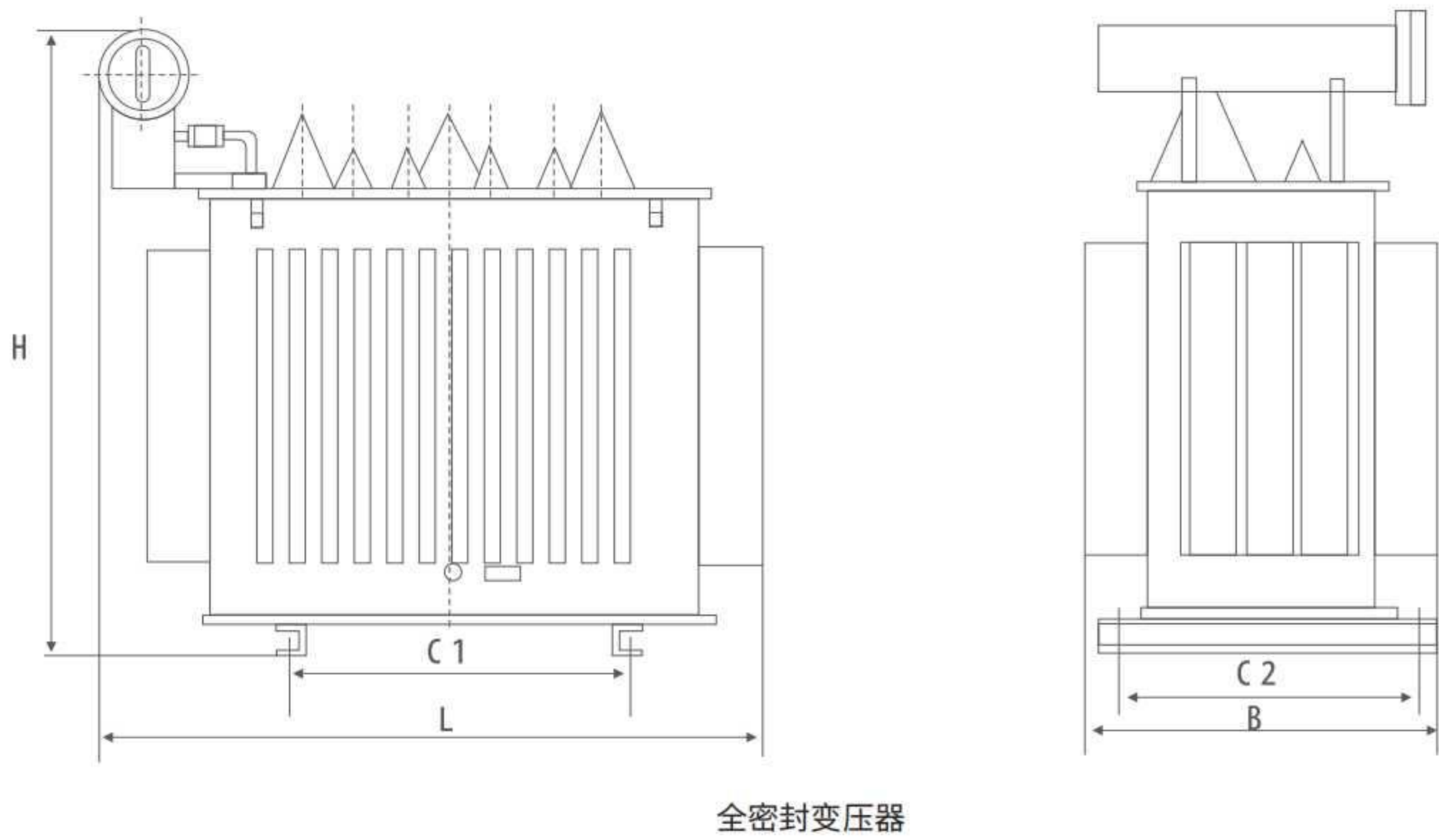
型号含义 Type designation



外观尺寸 Appearance of size



外观尺寸 Appearance of size



技术参数 Main technical parameter

型 号 model	S11
产品名称 product name	油浸式电力变压器 Oil immersed power transformer
输入电压 Input voltage	10000V/10KV
输出电压 Output voltage	400V
工作效率 work efficiency	98.6%
输出精度 Output accuracy	±2%
绕组材质 Winding material	丝包线 Silk covered wire
频 率 frequency	50/60Hz
设计寿命 Design life	20年
检测报告 Test report	CE认证、第三方质量检测认证 CE certification Third party quality inspection certification

技术参数 Main technical parameter

10KV级S11-M系列油浸式配电变压器技术参数
Technical parameters of 10kV S11-M series oil-immersed distribution transformer

额定容量 Nominal capacity	电压组合 (KV)		联结方式 Connection mode	损耗(KW)		空载电流(%) No-load current (%)	阻抗电压(%) Impedance voltage (%)	尺寸 (mm) 长x宽x高 L x W x H	轨距 纵/横向
	高压	低压		空载	负载 (75°C)				
30	11	0.4	Yy115 或Dyn11	0.10	0.60	2.1	4	750*490*970	450/350
50	10.5			0.13	0.87	2.0		770*550*1030	450/350
63	10			0.15	1.04	1.9		800*600*1040	450/380
80	6.3			0.18	1.25	1.8		810*680*1060	450/430
100	6			0.20	1.50	1.6		820*680*11 00	550/450
125				0.24	1.80	1.5		1070*700*1150	550/470
160				0.28	2.20	1.4		1120*700*1220	550/500
200				0.34	2.60	1.3		1160*720*1255	550/520
250				0.40	3.05	1.2		1200*760*1310	650/550
315				0.48	3.65	1.1		1210*780*1320	650/550
400				0.57	4.30	1.0		1340*880*1360	650/550
500				0.68	5.15	1.0		1360*890*1430	750/600
630				0.81	6.20	0.9	4.5	1560*1020*1410	850/660
800				0.98	7.50	0.8		1640*1060*1500	850/660
1000				1.15	10.30	0.7		1720*1160*1540	850/660
1250				1.36	12.00	0.6		1790*1190*1740	850/660
1600				1.64	14.50	0.6		1830*1210*1850	850/700
2000				1.94	18.30	0.6		2190*1900*1950	820/820
2500				2.29	21.20	0.6		2240*1940*1980	1070/1070

10KV级S11-M系列油浸式电力变压器技术参数
Technical parameters of 10kV S11-M series oil immersed power transformer

额定容量 Nominal capacity	电压组合 (KV)		联结方式 Connection mode	损耗(KW)		空载电流(%) No-load current (%)	阻抗电压(%) Impedance voltage (%)	尺寸 (mm) 长x宽x高 L x W x H	轨距 纵/横向
	高压	低压		空载	负载 (75°C)				
200	11	6.3	Yd11	0.34	3.15	1.6	4.5	1180*740*1270	660/660
250	10.5	6		0.40	3.60	1.7		1230*780*1340	
315	10	3.15		0.48	4.30	1.6		1260*810*1370	
400	6.3			0.57	5.20	1.5		1380*900*1390	
500	6			0.68	6.20	1.4		1400*920*1450	
630				0.81	7.30	1.3	5.5	1580*1020*1430	820/820
800				0.98	8.90	1.2		1665*1070*1520	
1000				1.15	10.50	1.1		1740*1160*1550	
1250				1.36	12.42	1.0		1820*1210*1740	
1600				1.64	14.85	0.6		1840*1240*1860	
2000				1.96	17.82	0.9		2210*1920*1970	
2500				2.31	20.70	0.8		2260*1970*1995	1070/1070
3150				2.73	24.30	0.8		2320*2280*2360	
4000				3.36	28.8	0.7		2460*2480*2475	
5000				3.99	33	0.7		2575*2640*2590	
6300				4.76	36.9	0.6		2640*2820*2810	
8000				6.52	40.5	0.55		2710*2840*3040	1475/1475
10000				7.70	47.7	0.55		2850*2880*265	

S13-M Fully sealed oil immersed transformer

S13-M 全密封油浸式变压器



产品概述 Product profile

- ▶ 随着我国经济建设的不断发展,人民生活水平的提高、用电负荷增加、变压器设备增多,带来能源消耗大而且噪声增大,严重污染城市环境,为此世界各国都在呼吁并着手降低能耗、改善城市环境。S13-M型系列三相配电变压器比当前城网建设用的S9、S11型相比,空载损耗分别平均下降50%和30%,噪声水平下降5~8db。

With the continuous development of China's economic construction, the improvement of people's living standards, increased power load, and increased transformer equipment have brought about high energy consumption and increased noise, which has seriously polluted the urban environment. Therefore, all countries in the world are calling for and reducing energy. Consumption and improvement of the urban environment. Compared with the S9 and S11 models used in the current urban network construction, the S13-M series three-phase distribution transformers have an average loss of 50% and 30%, and the noise level is reduced by 5~8db.

正常使用条件 Normal use condition

海拔高度不超过1000m环境温度: The altitude does not exceed 1000m ambient temperature:

最高气温+40°C; Maximum temperature +40°C;

最热月平均气温+30°C; The hottest month average temperature +30°C;

最高年平均气温+20°C; The highest annual average temperature is +20°C;

户外最低气温-25°C。 The minimum outdoor temperature is -25°C.

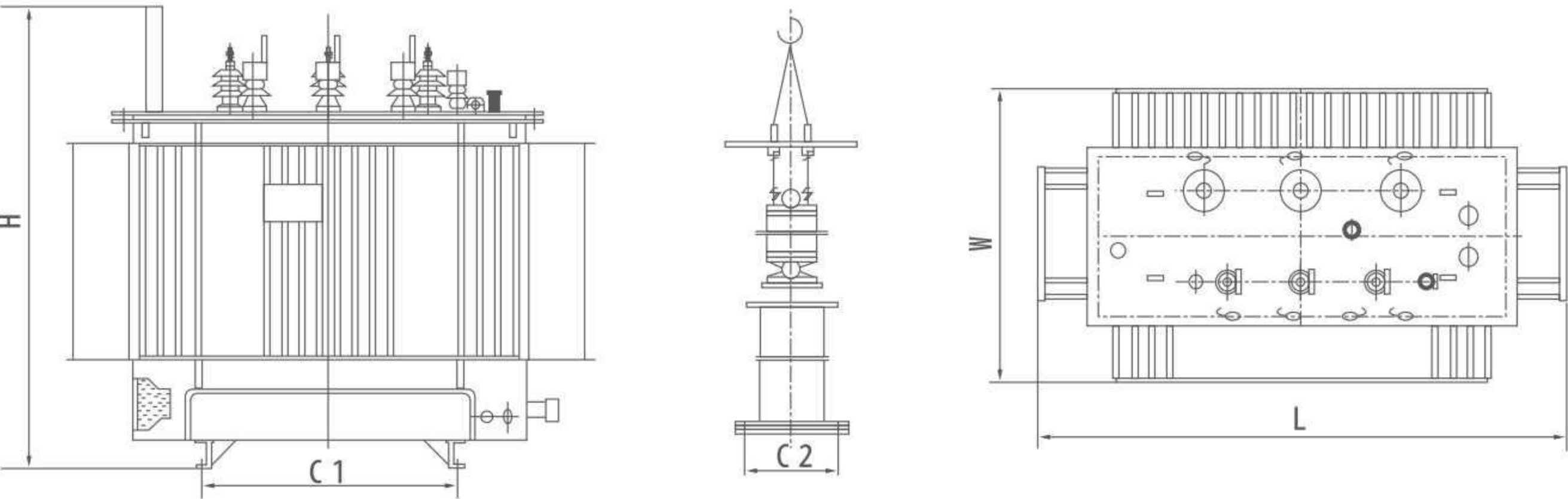
型号含义 Type designation



技术参数 Main technical parameter

产品名称 product name	油浸式电力变压器 Oil immersed power transformer
输入电压 Input voltage	10000V/10KV
输出电压 Output voltage	400V
工作效率 work efficiency	98.6%
输出精度 Output accuracy	±2%
绕组材质 Winding material	丝包线 Silk covered wire
频 率 frequency	50/60Hz
设计寿命 Design life	20年
检测报告 Test report	CE认证、第三方质量检测认证 CE certification Third party quality inspection certification

外观尺寸 Appearance of size



S13-M-30~2000/10变压器外形及安装尺寸

10KV级S13-M系列油浸式配电变压器外形尺寸
10KV class S13-M series oil-immersed distribution transformer dimensions

额定容量 Nominal capacity	外形及安装尺寸(mm) Shape and installation dimensions(mm)				
	L	W	H	C1	C2
30	750	643	974	400	400
50	795	493	1013	400	400
63	800	665	1050	400	400
80	840	680	1075	400	400
100	775	690	1100	550	550
125	1260	900	1045	550	550
160	1090	720	1140	550	550
200	1180	780	1155	550	550
250	1175	750	1180	550	550
315	1315	890	1240	660	660
400	1330	910	1280	660	660
500	1390	930	1340	660	660
630	1545	1030	1410	820	820
800	1570	1020	1535	820	820
1000	1800	1250	1430	820	820
1250	1910	1130	1650	820	820
1600	2010	1220	1740	820	820
2000	2120	1280	1780	820	820
2500	2450	1280	2720	1070	1070

技术参数 Main technical parameter

10kV级S13-M系列油浸式配电变压器技术参数
Technical parameters of 10kV S13-M series oil-immersed distribution transformer

额定容量 Nominal capacity	电压组合 (kV)		联结方式 Connection mode	空载损耗(KW) Load lossW	短路阻抗% Short circuit resistance	尺寸 (mm) 长x宽x高 L x W x H	轨距 纵/横向
	高压	低压					
30	6 6.3 6.6 10 10.5 11 ±5% 或 ±2× 2.5%	0.4	Yyn0 或Dyn11	80	4	705*445*850	400×400
50				100		745*500*880	400×400
63				110		775*515*965	400×400
80				130		790*590*985	400×400
100				150		820*640*1005	400×400
125				170		835*710*1030	550×550
160				200		865*740*1030	550×550
200				240		1085*680*1110	550×550
250				290		1175*755*1130	550×550
315				340		1190*765*1175	550×550
400				410		1275*825*1210	660×660
500				480		1325*880*1280	660×660
630				570	4.5	1420*935*1315	660×660
800				700		1490*985*1375	820×820
1000				830		1690*1220*1395	820×820
1250				970		1825*1305*1460	820×820
1600				1170		1825*1270*1515	820×820
2000				1380		2085*1235*1715	1070×1070
2500				1680		2130*1255*1805	1070×1070