安徽格绿电气有限公司

Anhui Green Energy Electric Co., Ltd.



Cindy Wang Sales Manager





Anhui Green Energy Electric Co., Ltd

www.ge-ele.com

Transformer, Substation, Voltage Stabilizer/Regulator, UPS, etc.

- +86 0551-65879669
 - +86 18715017448(Wechat/Whatsapp)
- \bowtie
 - cindywang@anhuigreenenergy.com
- Room 2103 Building No.A Jiaqiao International Square Baohe District, Anhui Province, China



PRODUCT GUIDE

安徽格绿电气有限公司 A<u>nhui</u> Green Energy Electric Co., Ltd.



COMPANY PROFILE

GREEN ENERGY ELECTRIC Group, is located in Hefei City, Anhui Province where close to Shanghai, , the business scope includes production and sales of high and low voltage electric power transformer, box-type substation, power electrical complete sets of equipment integrated installation, maintenance and testing of power facilities, power engineering construction, production and sales of cable, etc. Which can meet the basic requirements of most markets and are deeply loved by customers. More and more customers are willing to give orders to GE, which has laid a solid foundation for the rapid development of GE.

Our products fully comply with the national and industry standards required by the meet international IEC standards for key performance indicators, ensuring operational efficiency, safety, environmental protection and reliability of the products, favored by customers at home and abroad.











02 Voltage Stabilizer/Regulator

<u>03</u> UPS

- 04 Portable Power Station
- 05 Dry Type Transformer
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- 07 Single Phase Pole Mounted Transformer
- **08 Power Transformer**
- 09 Pad Mounted Transformer
- **10** Compact Substation
- 11 Switchgear/Switchboard





CONTENTS









BK Control Transformer

Scope of application

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

Structure features

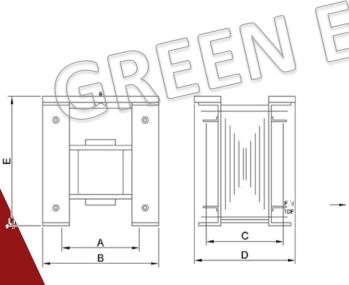
BK Series transformer can be classified according to the structure of the shell and, by the way the installation can be divided into vertical.

Usage environment

1.Ambient air temperature kr-5°C to +40°C, 24 hour on average no more than +35°C;

2.Location to install an altitude of no more than 2000m;

3.Air relative humidity in the ambient 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.



Input voltage: 2 phase 440V/415V 380V 360V Output voltage: can customized 440V/12V/24V/36V48V/60V/120V220V special voltage please ask us. Electric strength: Power frequency sinusoidal voltage Waveform distortion: No additional waveform distortion Ambient temperature: $-15^{\circ}C \sim +40^{\circ}C$ Relative humidity: $\leq 90\%$ Insulation resistance: $\geq 50M\Omega$ Efficiency: $\geq 98\%$ Frequency: 50Hz/60HzOverload capacity: Double rated current Hold for one minute



JBK Control Transformer

Scope of application

JBK series single-phase machine tool control transformers are comprehensively used for AC 50-60HZ, and the input and output voltages do not exceed 1000V. They are often used in machine tool work as local lighting, indicator light power supply or machine tool control electrical appliances.

Structure features

JBK5/6 series machine tool control transformers are suitable for AC 50~60Hz, input rated voltage not exceeding 500V, output rated voltage not exceeding 220V, used as mechanical equipment in all walks of life, general electrical control power supply and power supply for work and signal lights. In addition to a series of advantages of JBK5, JBK6 also has the following characteristics:

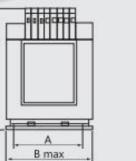
- 1. The wiring screw is bigger than JBK5, the wiring is more convenient and firmer;
- 2. Equipped with short circuit and thermal protection device, more reliable in use;

3. The transformer adopts integrated varnish dipping process, and the insulation material is imported from abroad, with stable insulation performance;

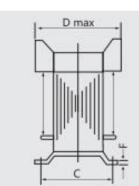
Usage environment

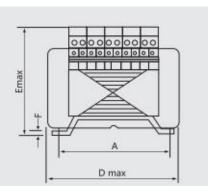
1.Ambient air temperature:-5°C-+40°C, the highest monthly mean temperature should not exceed +30°C; 2.Altitude for installing place should not exceed 2000 m;

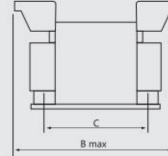
3.When the ambient air temperature is +40°C, the relative humidity should not exceed 50%, and it allows higher relative humidity under lower temperature. Max average humidity in the dampest month is 90%, meanwhile the lowest average temperature of this month is +25°C, and condensation on the product surface caused by temperature change should be taken into consideration.

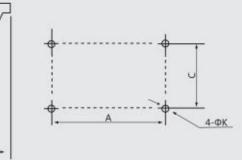


Ema











Toroidal Transformer

GEOD ring power transformers are usually suitable for power transmission and voltage or current conversion in circuits. As a main soft magnetic electromagnetic component, they are widely used in power supply technology and power electronics. There are isolation transformers, autotransformers, lighting transformers, etc. It can also be used for special purposes, such as transformers, and transformers can be designed and produced according to customer requirements.

FEATURE:

The cold-rolled oriented silicon steel sheet with a thickness of 0.27mm or 0.30mm, low iron loss and high magnetic permeability is used as the electromagnetic induction material, and the device is used to change the AC voltage by matching the primary winding and the secondary winding. Because the shape of the product is circular, it is called a toroidal transformer. The product has the advantages of small size, high efficiency, low temperature rise, small magnetic flux leakage, and easy installation.

•High efficiency: high-quality materials and compact structure are used to minimize the distance between the iron core and the winding, so the efficiency can reach more than 90%.

•Small magnetic flux leakage: The iron core magnetic gap of the toroidal transformer is small and the winding is even.

•Low noise and low heat generation: Since the toroidal transformer is made of high-quality low-loss materials, it has a uniform circular loading surface and continuous winding, so the resistance loss and heat generation are very low.

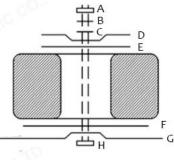


WITHOUT BASE INSTALLATION

- A: SCREW
- B: IRON COVER
- C: TOP RUBBER PAD
- D: BOTTON RUBBER PAD
- E: FLAT PAD
- F: SPRING PAD

G: NUT





WITH BASE INSTALLATION

A: NUT B: SPRING PAD C: FLAT PAD D: IRON COVER E: TOP RUBBER PAD F: BOTTON RUBBER PAD G: INSTALL THE BASE H: SCREW



SBK Control Transformer



Scope of application

SBK series three-phase dry-type transformers are suitable for circuits with AC 50-60Hz and input voltage not exceeding 1000V. They can be used as control power supply, local lighting and indicator power supply for general electrical appliances such as various machine tools and mechanical equipment, and can also be used as small power supply.

Structure features

SG, SBK series three-phase dry-type transformers can be made into open type or protective type, which have the advantages of low loss, low noise, good fire resistance and no pollution to the environment. Transformers are divided into control transformers and lighting transformers according to the purpose of the product; control transformers are fixed transformers; lighting transformers are movable transformers except for lighting transformers for machine tools. The iron core of the transformer is made of cold-rolled silicon steel sheets, and the two sides of the iron yoke are made of steel or steel plates as clamps, which are fastened by screws. According to the structure, the products are divided into two types: open type and protective type. The protective type is made of steel plate and processed into a box shell. The transformer is inside the box shell. If necessary, voltmeters, ammeters, temperature controllers, steering wheels, etc. can be added according to user requirements to facilitate movement.

Usage environment

Altitude: The altitude of the installation site does not exceed 2000m

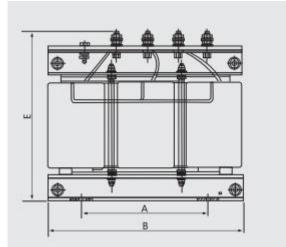
•Temperature The ambient air temperature does not exceed +40°C, and the average temperature within 24 hours does not exceed +35°C, and the lower limit of the ambient air temperature is -5°C;

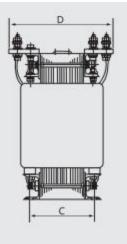
Humidity: When the highest temperature is $+40^{\circ}$ C, the relative humidity of the air does not exceed 50%; at lower temperatures, higher relative humidity is allowed, for example, 90% at $+20^{\circ}$ C;

Install in a place without severe vibration and impact vibration

In a non-explosive medium, and there is no place where there is no gas that corrodes metal, destroys insulation, or conductive dust.

Input and output voltage can be customized according to customer needs







QSG/SG





QSG/SG three-phase dry type isolation transformer is a new generation energysaving power transformer developed by our 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 hole row. The transformer is vacuumimpregnated, so that the insulation grade of the transformer reaches F class or H class, and the product performance reaches the advanced level at home and abroad. QSG/SG series three phase dry type isolation transformer is widely used in circuits with AC 50Hz to 60Hz and voltage below 2000V. all can be specially customized as per different requirements of the end users.

Capacity	Size(cm)	Size(cm)	Weight(kg)
0.5 KVA	27/25/25	18/14/18	8
1 KVA	27/25/25	18/16/18	11
2 KVA	30/26/27	24/16/21	18
3 KVA	35/30/41	24/17/23	25
4 KVA	40/35/45	30/17/29	47
5 KVA	40/35/45	30/18/29	57
8 KVA	45/40/52	36/18/35	67
10 KVA	50/40/53	36/19/35	90
12 KVA	50/40/53	36/19/38	95
15 KVA	50/40/53	42/20/41	115
20 KVA	55/45/58	48/22/45	145
30 KVA	55/45/59	48/25/45	180
40 KVA	60/50/63	54/26/50	215
50 KVA	60/50/63	54/28/50	255
60 KVA	75/50/75	60/26/55	290
65 KVA	75/50/76	60/26/56	300
70 KVA	75/50/75	60/28/55	320
80 KVA	75/50/75	60/30/55	360
100 KVA	85/50/85	78/30/62	350
150 KVA	95/60/95	85/35/73	460
200 KVA	95/60/96	87/35/75	
300 KVA	100/70/105	98/38/82	



DZS Transformer

The inverter power supply after AC→DC→AC conversion is called single-phase to three-phase power supply/transformer, which is different from the variable used for motor speed regulation.Frequency control controller. The main function of the single-phase to three-phase 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 wavetorm.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 theee-phase area, but the output power of the single-phase to three-phase power supply is determined by the 220V current of thee mains. DZS 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 lwidth 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 functiors to ensure reliable operation of the power supply.



Main Technical Parameters

Input voltage:single phase 220V±15%Input frequency:50HZ

- Output voltage:380V
- ■Output frequency:50HZ

■Output power:1.5KVA~60KVA

■Load regulation rate:≤±1%

Technical Characteristic

- Ordinary City Electricity Import, Ministry of Application TThree-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 lifelength

B Safely available, import single-phase electricity supplyand export three-phase electricity complete gas isolation

Import and pressure design, applicable area

EVarious types of protection, such as export protection, perfection of transport, overpressure, overioad, 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



ST Voltage Convert





Introduction

Step-up & Step-down series transformer is an AC voltage colnverting device. Using it is to convert the mufti-kind net voltages into a general output voltage under which all the electroric units are safe for use within the rated power ranger.

- •Input voltage: 90V/100V/110V/125V/220V
- •With fuse protector or with over current protector
- •Output voltage: 90V/100V/110V/125V/220V
- •With Metal handle
- •Built-in AC 110V/220V voltage selector switch



STEP UP & DOWN TRANSFORMER

ST-5000VA

POWER SOURCE

GEST Voltage Convert

Introduction



Toroidal 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 transformertemnerature-is-low.

Scope of application

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!





There are a large number of harmonic sources such as rectifiers, converters, and frequency converters in the power grid, and the high-order harmonics generated by them will seriously endanger the safe operation of the main transformer and other electrical equipment in the system. Filter reactors are widely used in high and low voltage filter cabinets. They are connected in series with filter capacitors and tuned to a certain resonant frequency to absorb harmonic currents of corresponding frequencies in the power grid. The reactance rates are 1%, 5.67%, 6%, 12 %, 13%, etc., can eliminate 3, 5, 7, 11, 13 and higher harmonics. After the filter reactor is connected in series with the capacitor, it can not only effectively absorb the harmonics of the power grid, but also improve the power factor of the system, which plays a greater role in the safe operation of the system.

Applicable environment

1. The altitude does not exceed 2000m;

2. The ambient temperature is $-25 \sim +45$ (°C), and the relative humidity does not exceed 90%;

3. The waveform of the power supply voltage is similar to a sine wave;

4. There is no harmful gas, no flammable and explosive materials around;

5. The surrounding environment should have good ventilation conditions. If the filter reactor is installed in the cabinet, ventilation equipment should be installed.

Anhui Green Energy Electric Co., Ltd.

Reactor / Inductor











°220,

TND- . HIGH-PRECISION AUTOMATIC AC VOLTAGE REGULATOR HIGH ACCURACY FULL-AUTOMATIC AC VOLTAGE STABILIZER



TNS-10KVA High-precision automatic AC voltage regulator HIGH ACCURACY FULL-AUTOMATIC AC VOLTAGE STABILIZER

	Model	Voltage Regulation Range	Product Size	Package Size	N.W.(kg)	G.W.(kg)
	TNS-1500VA	260V-450V	485*320*170mm	530*355*225mm	13	15.5
	TNS-3000VA	260V-450V	485*320*170mm	530*355*225mm	17.5	20
	TNS-4500VA	260V-450V	485*320*170mm	530*355*225mm	18	20.6
	TNS-6KVA	260V-450V	275*307*673mm	330*360*760mm	26.1	30.8
	TNS-10KVA	260V-450V	310*330*760mm	375*385*850mm	37	43
	TNS-15KVA	260V-450V	340*360*855mm	400*420*950mm	46	53
	TNS-20KVA	260V-450V	460*422*880mm	470*505*970mm	92.8	102
	TNS-30KVA	260V-450V	460*422*880mm	470*505*970mm	102	112
	TNS-40KVA	260V-450V	460*422*880mm	470*505*970mm	114.5	123.5
	TNS-50KVA	260V-500V	550*455*1160mm	610*510*1310mm	141	150
	TNS-60KVA	260V-500V	550*455*1160mm	610*510*1310mm	11	172
-	TNS-80KVA	260V-500V	620*520*1330mm	680*580*1470mm	185	195
L	TNS-100KVA	260V-500V	620*520*1330mm	680*580*1470mm	205	215
1	UL					

TNS

TNS Series single and three phase high precision automatic AC voltage regulator is composed of contact type auto voltage regulator, servo motor and automatic control circuit. When the grid voltage is unstable for the load changes, the automatic sampling control circuit sends a signal to drive the servo motor, adjust the position of the auto-coupler carbon brush, adjust the output voltage to the rated value and reach a steady state.

TNS₆



0

Model	Product Size(mm)	Package Size(mm)	G.W.(kg)
TNS6-15KVA	460*440*880	470*505*970	
TNS6-20KVA	460*440*880	470*505*970	100
TNS6-30KVA	460*440*880	470*505*970	107
TNS6-40KVA	460*440*880	470*505*970	119
TNS6-50KVA	550*455*1160	610*510*1310	157
TNS6-60KVA	550*455*1160	610*510*1310	171
TNS6-80KVA	620*540*1350	670*600*1450	211
TNS6-100KVA	620*540*1350	670*600*1450	227
TNS6-120KVA	620*540*1350	670*600*1450	241

TNS6-120KVA 620*540*1350 670*600*1450 241 TNS series high-precision AC voltage regulator has the function of direct power supply. It has many advantages such variety, fully specifications and beautiful appearance. It has the advantages of no waveform distortion, high efficiency, reliable performance, long-term operation, etc. It has short delay, overvoltage and other protection functions. It can add long delay and undervoltage protection according to the needs of users. The product can be widely used in any place of electricity, it is an ideal regulated power supply to ensure the normal operation of your electrical equipment.

TNS series high-precision automatic three phase AC regulated power supply is composed of single phase TND series high precision automatic regulated power supply. Three phase and phase to phase adjustment ensures stable and safe voltage of each phase. The grid input is three phase four wire system. Star(Y-shaped) connection, the output can be used three-phase four wire system or three phase three wire system.



6

	Model	Voltage Range	Product Size	Package Size	G.W.(KG)
	SJW3/TNS-1500VA	260V-450V	480*320*170	540*370*240	14.5
	SJW3/TNS-3000VA	260V-450V	480*320*170	540*370*240	19.5
	SJW3/TNS-4500VA	260V-450V	480*320*170	540*370*240	21
	SJW3-6KVA	260V-450V	270*310*670	360*330*750	30
	SJW3-10KVA	260V-450V	320*320*760	390*430*900	41
SJW ₃	SJW3-15KVA	260V-450V	340*380*820	510*470*980	51.5
	SJW3-20KVA	260V-450V	460*420*880	510*470*980	5 100
	SJW3-30KVA	260V-450V	460*420*880	510*470*980	105
	SJW3-40KVA	260V-450V	460*420*880	510*470*980	118
	SJW3-50KVA	260V-500V	550*450*1160	600*500*1310	157
	SJW3-60KVA	260V-500V	550*450*1160	600*500*1310	166
	SJW3-80KVA	260V-500V	620*520*1310	670*600*1450	203
	SJW3-100KVA	260V-500V	620*520*1310	670*600*1450	217
	SJW3-120KVA	260V-500V	620*520*1310	670*600*1450	233

TND



	G.W.(kg)	Package Size(mm)	Product Size(mm)	Voltage Regulation Range	Model
	5.8	260*260*200	210*200*170	140V-260V	TND-1000VA
	6.1	260*260*200	210*200*170	140V-260V	TND-1500VA
	8.2	300*280*250	260*240*200	140V-260V	TND-2000VA
	11.8	340*290*270	290*230*230	140V-260V	TND-3000VA
C					

5

PIL



HIGH ACCURACY FULL-AUTOMATIC AC VOLTAGE STABILIZER

TND-1000VAHadoperate

HIGH ACCURACY FULL-AUTOMATIC AC VOLTAGE STABILIZER

oltage

TND Series single-phase high precision automatic AC voltage regulator is composed of contact type auto-coupling voltage regulator, servo motor and automatic control circuit. When the grid voltage is unstable for the load changes, the automatic sampling control circuit sends a signal to drive the servo. The motor adjusts the position of the auto-coupler carbon brush to adjust the output voltage to the rated value and reach a steady state.

TND₃



	Model	Voltage Regulation Range	Product Size(mm)	Package Size(mm)	G.W.(kg)
	TND3-10KVA	140V-220V	312*340*540	390*365*620	38.5
	TND3-10KVA	90V-260V	312*340*540	390*365*620	42
	TND3-15KVA	140V-300V	350*400*610	450*400*700	53.5
	TND3-15KVA	90V-300V	350*400*610	450*400*700	57
	TND3-20KVA	140V-300V	350*400*610	450*400*700	57
	TND3-20KVA	90V-260V	350*400*780	450*400*870	80.5
	TND3-30KVA	140V-300V	350*400*780	450*400*870	573
	TND3-30KVA	90-260V	350*400*780	450*400*870	89.5
	TND3-40KVA	140V-300V	350*400*780	450*400*870	84.5
	TND3-40KVA	110V-260V	550*450*1040	600*500*1200	130
	TND3-50KVA	110V-260V	550*450*1040	600*500*1200	141
5	TND3-60KVA	110V-260V	550*450*1040	600*500*1200	157

 Image: Sector Sector

TND3 series high-precision AC voltage regulator has the function of direct power supply. It has many advantages such variety, fully specifications and beautiful appearance. It has the advantages of no waveform distortion, high efficiency, reliable performance, long-term operation, etc. It has short delay, overvoltage and other protection functions. It can add long delay and undervoltage protection according to the needs of users. The product can be widely used in any place of electricity, it is an ideal regulated power supply to ensure the normal operation of your electrical equipment. Suitable for office equipment, test equipment, medical equipment, industrial automatic equipment, household appliances, lighting systems, communication system, etc.



	Model In	put Voltage	Product Size(mm) Package Size	(mm) G.W.(k	g)
	TKR-1500VA	105V-270V	230*190*110	270*260*1	60 3	
	TKR-2000VA	105V-270V	230*190*110	270*260*1	60 4	
	TKR-3000VA	140V-260V	280*210*160	340*270*2	00 9	
	TKR-5000VA	140V-260V	280*210*160	340*270*2	00 10.6	
TKR Product	Model	Rated output capacity(VA)	Rated output current(A)	GGV Rated output voltage(V)	The output voltage	
Desk type relay automatic AC	TKR-1500VA	1500	7.0			
(Input voltage:AC105-270V)	TKR-2000VA	2000	9.1	AC105-270V	220V±3%	
langing type relay automatic AC egulator	TKR-3000VA	3000	13.6	AC105-270V	22001370	
(Input voltage:AC105-270V)	TKR-5000VA	5000	22.7			

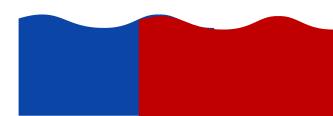
SBW



	Model	Product Size(mm)	Package Size(mm)	G.W.(kg)
	SBW-50KVA	750*600*1250	790*650*1400	235
	SBW-60KVA	750*600*1250	790*650*1400	250
	SBW-80KVA	850*620*1400	890*670*1580	290
	SBW-100KVA	850*620*1400	890*670*1580	320
	SBW-120KVA	850*620*1400	890*670*1580	340
	SBW-150KVA	1000*700*1600	1040*760*1810	470
	SBW-200KVA	1000*700*1600	1040*760*1810	510
	SBW-250KVA	1100*800*1900	1140*860*2110	660
	SBW-300KVA	1100*800*1900	1140*860*2110	720
	SBW-350KVA	1100*800*1900	1140*860*2110	800
	SBW-400KVA	1100*1250*2000	1140*132*2210	970
20	SBW-500KVA	1100*1250*2000	1140*132*2210	1180
EL	SBW-600KVA	1100*1250*2000	1140*132*2210	1300
	SBW-800KVA	1700*1300*2000	1750*1360*2220	1900
	SBW-1000KVA	1700*1300*2000	1750*1360*2220	2200
	SBW-1250KVA	1700*1300*2000	1750*1360*2220	2550



SBW high-power voltage stabilizer is designed and manufactured with international advanced compensation technology. When the grid voltage fluctuates or the load current changes, it can automatically keep the programmed voltage stable to ensure the normal operation of the electrical equipment. Compared with other types of rental voltage stabilizers, It has large capacity, high efficiency, no waveform distorsion, easy to use and maintain, reliable operation, and can still output at full capacity when the input voltage range is low. With over voltage, over current, start up phase sequence and other protection.



JJ



JJW/JSW series precision AC purification and stabilized poweer supply is a new type of power supply product that adopts international advanced sinusoidal energy distribution voltage stabilization technology and integrates voltage stabilization and city power purification functions. It has the advantages of high voltage stabilization accuracy, fast dynamic response speed, small distortion, strong load adaptability, and strong anti-electromagnetic interference abilty.

It is mainly used in computers, precision instruments, test instruments, communication and broadcasting equipment, medical equipment, laboratories, autormatic control systems, etc. that require high power quality.

W/JSW	Mode
Main rechnical Parameters	JJW-1K
Input voltage: single phase 170-265V; three phase: 304- 456V	JJW-2K
Output voltage: single phase: 220V±1%; three	JJW-3K
phase:380V±1%	JJW-5K
Voltage regulation accuracy: ±1%; Frequency: 50/60Hz;	JJW-10
Spike absorption: input 1000V, 3US spike, output ≥5V	JJW-15
Full load efficiency: >92%	JJW-20I
Response speed: 41s (when the external voltage change	JSW-3k
is greater than 10%)	JSW-6k
Electrical strength: power frequency sinusoidal voltage	JSW-10
200V for 1 minute without breakdown and flashover	
phenomenon;	JSW-15
Applicable load: any load;	JSW-20
Waveform distortion: ≤5%.	JSW-30
I nsulation resistance : single phase >5MΩ, three phase	
>2MQ	JSW-45
Audionoise: ≤60dB Distance: 1m	JSW-60
Overvoltage protection value: single phase: 246V±4V; three phase:426V±7V	L

Model	Product Size(mm)	G.W.(kg)
JJW-1KVA	355*175*300	
JJW-2KVA	390*185*335	16
JJW-3KVA	410*195*355	18
JJW-5KVA	460*255*395	24
JJW-10KVA	485*260*495	43
JJW-15KVA	560*290*560	51
JJW-20KVA	560*290*560	60
JSW-3KVA	650*330*950	42
JSW-6KVA	650*330*950	55
JSW-10KVA	650*330*950	65
JSW-15KVA	750*380*780	79
JSW-20KVA	750*380*780	106
JSW-30KVA	750*380*780	136
JSW-45KVA	800*450*880	151
JSW-60KVA	800*450*880	176





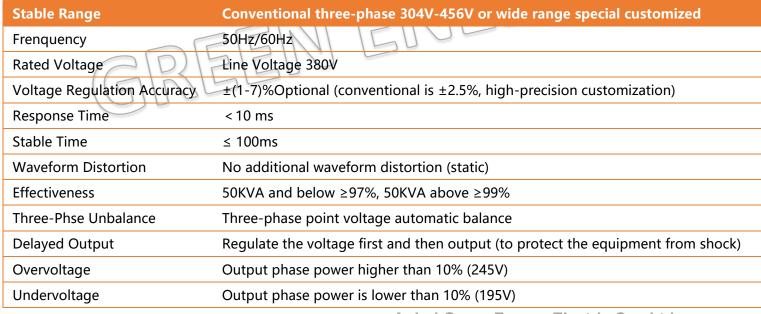


ZBW Three-phase non-contact regulator is a new generation of intelligent fast energy-saving regulated power supply designed by our company to introduce and absorb foreign advanced techniology and combine with China's national conditions to stabilize AC voltage. The central control system of the voltage regulator adopts intelligent control of single-chip microcomputer and is equipped with multilanguage liquid crystal display, which highlights the ssafety, stability, energy saving and humanized human-machine interface of the device. Compared with traditional compensation regulators, ZBW series non-contact regulators have three significant advantages: intelligent control and displeey, fast voltage regulation, and quiet energy saving.

ZBW Three-phase non-contact regulator is mainly composed of compensation transformer (controllable transformer), thyristor non-contact switch, high-speed AD sampling and intelligent processor composed of single-chip microcomputer. No carbon brush, no contact, No mechanical transmission, digital intelligent control. 12-bit high-speed AD acquisition, 128 points per week, single-chip digital processing and true RMS calculation, accurate confrol, large-scale programmable logic device and microcontroller. User-friendly human-machine interface: You can view and set 'various indicators of the regulator through the touch panel of the operation panel.







Anhui Green Energy Electric Co., Ltd.

ZBW







TNSJA



Oil-type voltage stabilizer is also called intelligent voltage stabilizer, also known as inductive voltage stabilizer. The oil-type voltage stabilizer is composed of a voltage regulation and transformer SSTS (including the oil tank, the stator, the rotor top cover, the transmission control motor M, the handwheel mechanism and the control circuit board voltage regulation and control secondary circuit components). Rotation and voltage regulation are realized through motor drive or handwheel mechanism and gear coupling, the rotation range is within 180°, and the upper end of the fuel tank is provided with electric SS limit and mechanical limit. The mechanical limit is blocked by the protection bolt to block its rotation limit. The stator winding and rotor winding are fixed by the bottom frame and put into the oil tank. The box is equipped with 10# transformer oil. When the load generates heat, it is cooled by oil immersion and dissipated through the heat dissipation pipe. , The main circuit of overcurrent protection has the characteristics of no contact adjustment, no mechanical wear, no spark, no interference, and low failure rate; and it has the advantages of strong impact resistance, super instantaneous overload capacity, long service life, and no maintenance.





> • UPS



Specifications GE33- 10-300KVA Series



Front

30-40KS Appearance 250~550~ Interactive LCD screen LCD PANEL 0 Communication interface Θ RS232 and RJ-45 Lock-Front Gate SWITHCH BUTTON heat-dissipating hole plate with LED DAM UPSTIM ME Protection 00 ----1 : switch In succession in AN APPROPRIATE Terminals Back 100-120KS Interactive LCD screen Appearance - FAN 88 D Communication 电源输出 AC220V 88 RS232 and RJ-45 RJ 45 PORT-Front Gate plate with LED Lock_ heat-dissipating Protection hole 90 BREAKER-1 . 1 1 : OUTPUT switch 新路器 88 1 1 电激输人 AC220V יזיגעיאשר AC INPUT-Terminals







MODEL	GE33-10~20KS	GE33-30~40KS	GE33-60~80KS	GE33-100~120KS	GE33-160~200K	GE33-250~300K		
Capacity	10/15/20Kva	30/40Kva	60/80Kva	100/120Kva	160/200Kva	250/300Kva		
UPS Size	402x660x880	412x813x1121	505x960x1321	555x1060x1421	1043x1160x1748	1600x1182x1962		
Pack Size	505x800x1030	515x926x1270	603x990x1486	653x1190x1586	1303x1180x2076	1760x 1301x2168		
UPS Weight	153/168/194	223/256	382/434	535/580	1120/1320	1540/1745		
Temperature	0-40°C							
Relative Humidity	0-95%, non condensir	ng						
Nosie	<60db at 1.5m from s	urface of unit						
Altitude	1000m (high rises eve	ry 100m, power decrease	es 1%, maximum height is	4000m)		nC		
Efficiency	Power saving mode>9	98%, Inverter>92%, AC-A	C>91%		OFP(D)			
Transference	Oms cutless			DA P	CILIN	VIII S		
Technology	True double-conversion	on online technology, co	nversion performed by IG	BT	(G U U)			
Voltage Frenquency Conductors	Frenquency 50Hz ± 15%							
Voltage(Customized)	OUTPUT 3×220/380VAC ±1%(More voltage can be selected)							
Frenquency	50Hz ± 0.1%							
Waveform	Pure sine wave genera	ated by high frequency P	WM inverter					
Harmonic Distortion	<2% Linear load	<5% Nonline	ar load					
Crest Factor	3:1							
Power Factor	0.8 or 0.9							
Overload recuperation	Automatic transfer to	normal						
Voltage regulation	Load balance: ± 1%							
Overload capacity	125% for 12 minutes	150% for 1 m	inute					
Conductors	Three phases+N+E							





MODEL	GE33-10~20KS	GE33-30~40KS	GE33-60~80KS	GE33-100~120KS	GE33-160~200K	GE33-250~300K			
	Battery								
Туре	Maintenance-free sealed	d lead-acid battery, 12V [*]	32 batteries						
Full load autonomy	3 to 15 minutes. extend	ed-range capability							
Typical recharge time	4-8 hours, 90%								
Battery behavior	Autotest. Transfer Poi	nt Adjustable battery an	d alarm setting						
Battery protection	Fuse protection, batte	ery switch, temperature c	ompensation, regular insp	ection, software protecti	on, overvoltage tripping				
Rectification	Software protection, in	nput switch, over curren	t protection, temperature	protection					
Protection									
Hardware protections	Breaker for input, out audible alarms	put battery and bypass. I	Fast acting fuses in DC, far	ns, redundant power supp	oliers, temperature senso	rs, on-o switch and			
Bypass	Static solid state, auto	matic and manual opera	ation without interruption	for maintenance. Ecterna	l Bypass(optional)				
Emergency switch	Remote and/or local E	PO	00	PLE	90				
		Supervisory co	ntrol and communica	tion					
Frontal panel	Interactive LCD displa	y(Touchscreen)	KOU U						
Alarms	Audible and visual ala	rm for abnormal conditi	ons						
Communications	RS232, SNMP-RJ45, G	PRS(RS232&RJ45 standa	rd, the other is optional)						
*Product specifications are subject	to change without noti	ce.							
GNBL									

GREEN ENERGY







III ett



Application:

Its advanced battery charging system enables the UPS to supply a long backup time while the charging time is rather short, and its temperature compensation system can help to prolong the service life of the battery. Also, its circuit is simple, which reduces the number of components and makes the machine more compact and more reliable.

Its true double-conversion online technology is the double-conversion online technology provides pure and safe power supply to all appliances, communication equipment and important loads connected to the Internet and the DSP technology responds quickly to different power supply problems, making sure its load will work uninterruptedly.

Ult is compatible to all kinds of loads and widely used in the fields of energy sources, transportation, office, medical equipment, engine-room, data center, toll station and so on.



Online Low Frequency UPS

Function and Feature

True double-conversion online technology

Range from 10kva to(300kva)

DSP 100% micro controlled

Dual power supply (selectable)

Nigh efficiency > 92%

N+1 parallel redundant connection

GE33 - 10 -300KVA Series



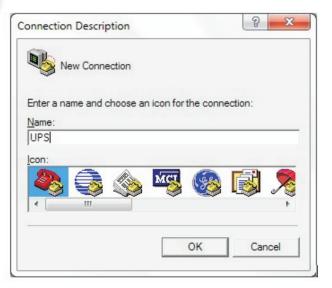
30-40KS Appearance



Energysources Enterprise Data center Electronics Scientific research Engine-room



UPS



The window of running this program is shown as the graph on the right

2. Monitoring through network adapter

Advanced Communication Function



With the use of communication interface and monitoring software, you can monitor this UPS on your computer REEN ENERGY which simplifies the management of power supply. You can also choose to buy a SNMP card, which is compatible to all kinds of operating system, and supports TCP/IP, SNMP, HTTP Protocol, so as to monitor the UPS through internet. Moreover, it will be easier to achieve central management even users are scattered in different places and it can also diagnose network and maintain the system remotely, realizing global management in a very real sense.

1.Software monitoring through RS232

There is a RS232 interface on the back panel of the UPS, which can be used to connected the UPS to a computer by a communication line so as to monitor the UPS. The distance between the UPS and its monitoring equipment is better to be less than 10 meters and better to use the USB cable which is called trend net tu-s9. The hyper terminal in the computer will monitor the UPS and this software is already installed in "Window's" and "Window xp" system or you can download a newer edition from Internet.

With the use of network adapter, information can be exchanged through local area network or internet, so a network adapter can monitor a UPS at a time or many UPS simultaneously depending on user's wishes.

- 2.1 Thanks to http server, UPS will become a small server so any computer can do the monitoring job by entering the IP address of the UPS.
- 2.2 The other way is to use SNMP. Our company will provide a software that can drive SNMP (Net Agent Utility) to monitor the UPS in real time.

3.Monitoring through GPRS

Specifications of the UPS can be monitored or set by exchanging information through MODEM GPRS. As long as users register information of the UPS on the Internet, he will be able to check information of the UPS on the website and he will also be able to schedule for the UPS as well. As a result, no matter what happen to the UPS, an email or a message will be sent to the user's mobile phone. This way can be very helpful in the area, which has no LAN, Internet or is far away.

All the network information, operating process and software CD will be sent to the user along with the product.

Product number	PT-1K	PT-1KL	PT-2K	PT-2KL	PT-3K	PT-3KL			
Rated Capacity	1KVA/10(1KVA/1000W 2 KVA /2000W			3 KVA /3	3000W			
		enter	•						
Input system			L+N+P	Έ					
Rated input voltage	208/220/230/240VAC								
voltage range	110-300VAC (110-176VAC, 280-300VACPower limit)								
Frequency Range	50/60HZ ± 6Hz (default) , ± 10Hz (Can be set)								
Input power factor	≥0.99								
Input total harmonic distortion	≤3% linear load; ≤5% non-linear load (PF=0.8)								
		Output	t						
Output format			L+N+P	E					
The output voltage	208/220/230/240VAC								
Output accuracy	±1%								
Output frequency	Online mode: follow the mains frequency, battery mode: 50/60Hz±0.1%								
Output harmonic distortion	≤1% linear load; ≤3% non-linear load (PF=0.8)								
Output power factor	1	1.0							
Switching time	Oms from mains mode to battery mode, 4ms from inverter mode to bypass mode								
Overload capacity	Mains mode: Battery mode:30min @102%~110% load 110% load 110% load 10s@110 load30s @ 130%~150% load 3s@ 130%~150% load 200ms@>150% load 200ms@>150% load								
		Overall effic	· · · · · · · · · · · · · · · · · · ·						
Mains mode	Full load94.5%@220VAC Full load95.5%@220VAC Full load95.5%@220VAC Full load95.5%@220VAC								
Battery mode	Full load89.5%@36VDC Full load91.5%@72VDC Full load91.5%@96VDC								
Battery mode	Full load89.5%@24VDC Full load91.5%@48VDC Full load91.5%@72VDC								
		Battery							
Section number	7Ahx2	36V	7Ahx4	72V	7Ahx6	96V			
Backup time			Depends on user needs	and configuration					
recharging current	1.0A (default) 1 ~ 2AdjustableExternal battery pack	5.0A (default) 1-12A (Adjustable)	1.0A (default) 1∽ 2AdjustableExternal battery pack	5.0A (default) 1-12A (Adjustable)	1.0A (default) 1∽ 2AdjustableExternal battery pack	5.0A (default) 1-12A (Adjustable)			
	<u>.</u>	Environmental pa	arameters						
Operating environment temperature			0-40°0	3					
Operating environment temperature	20%~95% (No condensation)								
Storage temperature									
Altitude	-15-60°C (Battery: 0-40°C) The altitude should not exceed 1000m, derating above 1000m, up to 4000m, refer to IEC62040								
Aititude		show	a sector in the sector of the	bove 1000m, up to 4000m					
	T		ort operating mode/load	/power/input/output_etc					
Support I CD		Supp	· · · · · · · · · · · · · · · · · · ·						
Support LCD		Standards and co							
		Standards and ce		260 GB/T4943 VD/T1005	ТС				
Support LCD Standards and certifications		EN/IEC 6	1000,EN/IEC 62040,GB/T7	260,GB/T4943,YD/T1095,	TLC				
Standards and certifications	285*1///*	EN/IEC 6 Physical charac	1000,EN/IEC 62040,GB/T7 cteristics			395X11/1*225			
Standards and certifications Length X Width X Height (mm)	285*144*	EN/IEC 6 ² Physical charac	1000,EN/IEC 62040,GB/T7 cteristics 395*14	14*225	450*195*352	395X144*225			
Standards and certifications		EN/IEC 6 ⁻ Physical charac 225 4.5	1000,EN/IEC 62040,GB/T7 cteristics 395*14 19			395X144*225 11			
Standards and certifications Length X Width X Height (mm)		EN/IEC 6 ² Physical charac	1000,EN/IEC 62040,GB/T7 cteristics 395*14 19	14*225	450*195*352				







Product number	PT-6K	PT-6KL	РТ-10К	PT-10KL					
Rated Capacity	6KVA/1000W 10KVA /10000W								
	-	enter							
Input system			L+N+PE						
Rated input voltage	208/220/230/240VAC								
voltage range	110-300VAC (110-176VAC、280-300VACPower limit)								
Frequency Range	50/60HZ \pm 6Hz (default) , \pm 10Hz (Can be set)								
Input power factor	≥0.99								
Input total harmonic distortion	Input total harmonic distortion $\leq 3\%$ linear load; $\leq 5\%$ non-linear load (PF=0.8)								
	F	Output							
Output format	L+N+PE								
The output voltage			208/220/230/240VAC						
Output accuracy			±1%						
Output frequency	Online mode: follow the mains frequency, battery mode: 50/60Hz±0.1%								
Output harmonic distortion	≤1% linear load; ≤3% non-linear load (PF=0.8)								
Output power factor	1.0								
Switching time		0ms from mains mo	de to battery mode, 4ms from inverter mode to by	/pass mode					
Overload capacity	Mains mode: Battery mode: 30min @102% ~110% load 1min@102% ~110% load10min @110% ~130% load 10s@110% ~130% load30s @ 130% ~150% load 3s@ 130% ~150% load 10s@110% ~130% 200ms@ >150% load								
		Overall efficiency	W PLAS						
Mains mode	Full load94.5%@2	220VAC	Full load95.5%@220VAC	Full load95.5%@220VAC					
Battery mode	Full load 89,5%@	36VDC	Full load91.5%@72VDC	Full load91.5%@96VDC					
Battery mode	Full load 89.5%@		Full load91.5%@48VDC	Full load91.5%@72VDC					
a	FINITE	Battery							
Section number 🦳 🦳	7Ahx16	16-20PCS	7Ahx1672V	16-20PCS					
Backup time	FILOP	Depend	s on user needs and configuration用户需求和配置						
recharging current	1.0A (default) 1∽ 2AdjustableExternal battery pack	5.0A (default) 1-12A	1.0A (default) 1~2AdjustableExternal battery pack	5.0A (default) 1-12A (Adjustable)					
		Environmental paramet	ers						
Operating environment temperature	0-40°C								
Operating environment temperature	20%~95% (No condensation)								
Storage temperature	-15-60℃ (电池: 0-40℃)								
Altitude	The altitude should not exceed 1000m, derating above 1000m, up to 4000m, refer to IEC62040								
		show							
Support LCD		Suppor	t operating mode/load/power/input/output, etc.						
	S	Standards and certificati							
Standards and certifications			0,EN/IEC 62040,GB/T7260,GB/T4943,YD/T1095,TL0	〔等					
		Physical characteristic	S						
Length X Width X Height (mm)	461*200*800	450*192*352	461*200*800	450*192*352					
Weight (KG)	69.5	13.6	70	14.2					
		Communication Interfa							
port			USB一个、RS232一个、EPO—个						
F	1								



Product number		PT-3C10K	PT-3C1	IOK PT-	-3С15К РТ	-3C15KL	РТ-3С20К	PT-3C20KL		
rated power			10kVA/9kW		15kVA/13.5kW		20kV	/A/18kW		
Machin	Machine architecture		Double conversion online UPS							
Number of input and output phases		Three-phase input/single-phase output								
	Input line number	Single-phase two-wire (L, N) + protective ground or three-phase four-wire (L1, L2, L3, N) + protective ground								
enter	Input voltage range	Single-phase zero-fire phase voltage: 90~300VAC /Three-phase line voltage: 150~500VAC								
	Input frequency range	40Hz-70Hz								
	Input power factor	≥0.99								
-	Number of output lines	Single-phase two-wire (L, N) + protective ground								
	Rated voltage	208/220/230/240VAC								
	Output voltage accuracy	±1%								
	Output frequency	50/60±4Hz (Phase lock mode) 50/60Hz±0.1% (Fixed frequency mode)								
	Output waveform	Pure sine wave								
Output	Input distortion (THDV%)				<2% (Linear lo <6% (Non-linear		2411-	KILLS		
	Overload capacity	Mains mode, Electrical transient (240VDC) :10 minutes@105%~125 rated load30 seconds@126%~150% rated load 0.5 seconds@>150% rated load Battery mode (192VDC): 10 seconds@102%~110% rated load 0.5 seconds@>110% rated load								
- (C - i)	Mains mode	94%								
efficient	Battery mode	192VDC: 92% / 240VDC: 93%								
Battery and charger	Battery voltage/number	92VDC16节 (internal)	192/240VD C16/20节 (外部)	192VDC32节 (internal)	92/240VDC16/20	古 (external)	92VDC32节 (internal)	192/240VDC16/20节 (external)		
	battery capacity	12V/7AH	Futomed	12V/7AH			12V/7AH			
	Backup time	Half load> 6 minutes	External battery decision	Half load > 8 minutes	External battery	/ decision	Half load> 6 minutes	External battery decision		
	recharging current	Standard machine (built-in battery): 1A long-term machine (external battery): 4A								
НМІ	LCD display	Display input and output voltage, frequency, load percentage, working mode, machine status								
	Communication Interface	Standard RS232, Ethernet card								
	Extension bit	USB, MODBUS								
Environmental parameters	range of working temperature	-20~45°C								
	Working humidity range	0-98% (No condensation)								
	noise	<55dB @ 1 meters								
Physical appearance	Size (mm)	3C10KS: 238(W)x528(H)x540(D) 3C15KS, 3C20KS: 238(W)x528(H)x540(D)								
	Weight (kg)		17.0		25.6			26.1		





> • Portable Power Station

Portable Power Station







Main Specifications

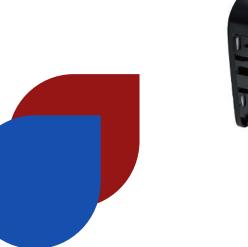
Car charging: 12V 5A **Net Wetight:** 2.3KG

Size: 246mm*78mm*238mm

Output:

1*AC 100V (US) / 1*AC 100V (Japan) / 1*AC 200-240V (Europe) / 1*AC 220V (China) 2*USB-A Total 36W 1*USB-C Max 60W 1*DC 12V 5A 1*LED light **Input:** DC: 12-30V (7A max & 60W max) Solar charging: 12-30V/MPPT The battery capacity is 216Wh, 350W high-power pure sine wave AC output, continuous power 350W, peak value up to 500W, compatible with various digital devices, small appliances, etc., such as drones, game books, cameras, handheld gimbals, car refrigerators, etc.







Portable Power Station



Battery capacity 505.44Mh, 600W high-power pure sine wave AC output, continuous 4 600W, peak value up to 1200W, compatible with various digital devices, small appliances, etc., such as drones, game books, cameras, handheld gimbals, car refrigerators Wait.

Main Specifications

Output:

2*AC 100V (US) / 2*AC 100V (Japan) / 2*AC 200-240V (Europe) / 2*AC 220V (China)

2*USB-A Total 36W

2*USB-C Max 60W

1*DC 12V 5A

1*Car charging 120W max

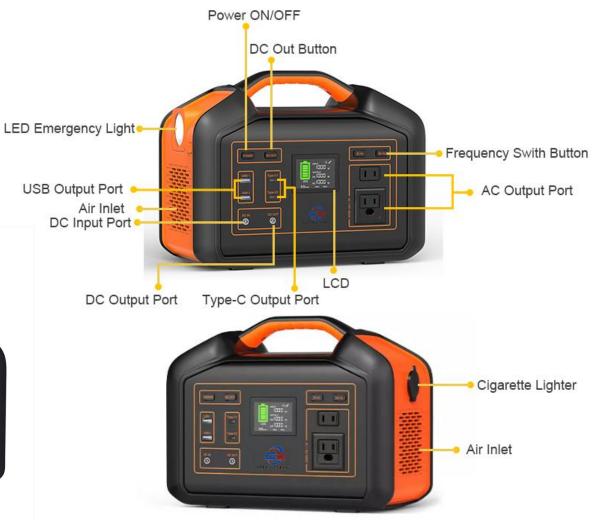
1*LED light

Input:

DC: 12-30V (7A max & 140W max) Solar charging: 12-30V/MPPT Car charging: 12V 10A **Net Wetight:** 5.5KG **Size:** 300mm*160mm*237mm



505.44Wh/600W





Battery capacity 808.08Wh, 1000W high-power pure sine wave AC output, continuous power 1000W, peak value up to 1600W, suitable for home emergency, small household appliances, digital products, long-distance self-driving tour, outdoor camping, environmental monitoring, geological survey, car power supply, medical equipment and other scenarios.

Main Specifications

Output:

2*AC 100V (US) / 2*AC 100V (Japan) / 2*AC 200-240V (Europe) / 2*AC 220V (China)

2*USB-A Total 36W

2*USB-C Max 60W

1*DC 12V 5A

1*Car charging 120W max

1*LED light

Input:

DC: 12-30V (7A max & 160W max) Solar charging: 12-30V/MPPT Car charging: 12V 10A **Net Wetight:** 8.0KG **Size:** 350mm*170mm*240mm



1226.4Wh/1500W



298.62Wh/500W



The battery capacity is 298.62Wh, 500W high-power pure sine wave AC output, 500W continuous power, the peak value can reach 600W, suitable for home emergency, small home appliances, digital products, long-distance self-driving tours, outdoor camping, environmental monitoring, geological survey, car power supply Wait for the scene.

Main Specifications

Output:

2*AC 100V (US) / 2*AC 100V (Japan) / 2*AC 200-240V (Europe) / 2*AC 220V (China)

2*USB-A Total 36W

1*USB-C Max 60W

1*DC 12V 5A

1*Car charging 120W max

1*LED light

Input:

DC: 12-30V (7A max & 140W max) Solar charging: 12-30V/MPPT Car charging: 12V 10A **Net Wetight:** 4.5KG **Size:** 271mm*135mm*213mm





@

LCD

1000 ...

AC 1000 w

Battery capacity 613.2Wh, 700W high-power pure sine wave AC output, continuous power 700W, peak value up to 1200W, suitable for home emergency, small household appliances, digital products, long-distance self-driving tour, outdoor camping, environmental monitoring, geological survey, car power supply Wait for the scene.

Main Specifications

Output:

2*AC 100V (US) / 2*AC 100V (Japan) / 2*AC 200-240V (Europe) / 2*AC 220V (China) 3*USB-A Total 54W 1*USB-C Max 60W

1*USB-C Max 18W

1*DC 12V 5A

1*Car charging 120W max

1*LED light

Input:

DC: 12-30V (7A max & 140W max) Solar charging: 12-30V/MPPT Car charging: 12V 10A USB-C charging: Max 60W **Net Wetight:** 7.2KG **Size:** 320mm*150mm*238mm



613.2Wh/700W



1226.4Wh/1500W

Battery capacity 1226.4Wh, 1500W high-power pure sine wave AC output, continuous power 1500W, peak value up to 3000W, suitable for home emergency, small appliances, digital products, long-distance self-driving tour, outdoor camping, environmental monitoring, geological survey, car power supply, Scenarios such as medical equipment.

Main Specifications

Output:

3*AC 100V (US) / 3*AC 100V (Japan) / 3*AC 200-240V (Europe) / 3*AC 220V (China) 2*USB-A Total 15W

2*USB-A Max 36W

1*USB-C Max 100W

1*USB-C Max 18W

2*DC 12V 5A

1*Car charging 120W max

1*LED light

Input:

DC: 12-30V (7A max & 160W max) Solar charging: 12-30V/MPPT Anderson charging: CC-CV 29.4V 20A **Net Wetight:** 13.0KG **Size:** 385mm*175mm*283mm









> • Dry Type Transformer

Dry Type Transformer

SCB10,SCB11,SCB13

Epoxy-resin Insulation Dry-type Transformer



SCB10、SCB11、SCB13 Series epoxy-resin insulation dry-type transformer Product Features

Security, flame retardant fire prevention, no pollution, can directly mounted in load center.

Maintenance free, easy installation, integrated operation cost is low.

Moisture-proof performance is good, can be in 100% humidity, after the normal operation of the action can be put into operation gets.

Low loss, low partial discharge, low noise, strong heat dissipation, and can run at 150% rated load under forced air cooling.

Equipped with perfect temperature protection control system for transformer, provide a reliable guarantee safe operation.

High reliability, according to the product to have already been put into operation, the operation reliability of products has reached the International advanced level.

SCB10、SCB11、SCB13 series epoxy-resin insulation dry-type transformer Structure characteristics

Box coil: low voltage winding adopts segmental copper foil, along with F grade in the low-pressure foil insulation turns on special around around the system. Foil type coils has solved the low voltage, large current coil short-circuit stress around the product, Ann circle imbalance, cooling effect is poor, exist around the system spiral Angle, artificially welding quality unstable outstanding problems. At the same time I company winding ends potting with resin, curing forming, moisture-proof anti-fouling. Fuses copper platoon diameter argon arc welding automatic welding.

Temperature control device: transformer USES BWDK series temperature sensor signal thermometer, buried in the low-pressure coil, upper automatic detection and touring show phase of their respective working temperature coil and over temperature alarm and tripped function.



Voltage Combined

Technical Data of SCB 10 Series 10kV Epoxy-resin Insulation Dry-type Transformer



Rated Capacity(KV		Voltage Combined		Vector-	No-load	75℃	No- Ioad	Short-circuit										
Capacity(KV A)	HV(kV)	Tapping Ranges	LV(kV)	group	Loss(W)	75℃ Load Loss(W)	Current (%)	Impendance(%)			Techni	cal Data of SCI	3 10 Serie	es 20kV Epoxy	-resin Insul	ation Dry-	type Trans	former
30					190	710	2.4											
50					270	1000	2.4			Rated		Voltage Combined			No-load	75℃ Load	No-load	Short-circuit
80					370	1380	1.8			Capacity(KVA)	HV(kV)	Tapping Ranges	LV(kV)	Vector-group	Loss(W)	Loss(W)	Current(%)	Impendance(%)
100					400	1570	1.8			50					380	1300	2.4	
125					470	1850	1.6			100					$\rightarrow \Pi I$	2100	2.2	
160					540	2130	1.6	4					~ (SFL	600	1 A		
200					620	2530	1.4	-		160		7 ELE	FI	GUI	750	2600	1.8	
250					720	2760	1.4			200	Π				820	3100	1.8	
315					880	3470	1.2	ONF		250	YEL		LE		940	3600	1.6	
400	6				980	2990	1.2		216	315				1080	4300	1.6	c	
500	6.3 6.6	±5% ±2×2.5%	0.4	Dyn11 Yyn0	1160	4880	1.2	ALLE	NED	400	9				1280	5100	1.4	6
630	10 10.5	±2×2.5%		Yyn0	1340	5880	1.0	INTR		500	630 22 ±2>	0 ±5% 2 ±2×2.5%			1500	6100	1.4	
630	11		DE	aF	1300	5960	1.0						0.4	Dyn11 Yyn0	1700	7200	1.2	
800		6	21	RIF	1520	6960	1.0											
1000			511	NE	1770	8130	1.0			800					1950	8700	1.2	
1250					2090	9690	1.0	6		1000				2300 2650	2300	10300	1.0	
1600					2450	11730	1.0			1250					2650	12150	1.0	
2000					3050	14450	0.8			1600					3100	14600	1.0	
2500				3600	17170	0.8			2000					3600	17250	0.8		
1600					2450	12960	1.0			2500					4300	20400	0.8	8
2000				3050	15960	0.8			2000						0.8	J		
2500						3600	18890	0.8								3600	18800	
										2500					4300	22400	0.8	

Dry Type Transformer

Technical Data of SCB 13 Series 10kV Epoxy-resin Insulation Dry-type Transformer



Rated	Ve	oltage Combine	ed	Vector-	No-load	Load loss u and heat	nder different resistance gr	t insulation ades(W)	No-load	Short-circuit	
Capacity(KVA)	HV(kV)	Tapping Ranges	LV(kV)	group	Loss(W)	B(100°C)	P(120°C)	H(145℃)	Current(%)	Impendance(%)	
30					135	605	640	685			
50					195	845	900	965			
80					265	1160	1240	1330			
100					290	1330	1415	1520			
125					340	1565	1665	1780		and	
160					385	1800	1915	2050	DEPI	4.0	
200					445	2135	2275	2440		14.0	
250			0.4		515	2330	2485	2665	20,		
315					635	2945	3125	3355			
400	6			Dyn11 Yyn0	ANG	705	3375	3591	3850		
500	6.3 6.6	±5%			835	4130	4390	4705			
630	10	±2×2.5%	0.4	Yyn0	965	4975	5290	5660			
630	Daip	15U	U		935	5050	5365	5769			
800	ME				1095	5895	6265	6715			
1000					1275	6885	7315	7885			
1250					1505	8190	8720	9335		6.0	
1600					1765	9945	10555	11320			
2000					2195	12240	13005	14005			
2500					2590	14535	15455	16605			
1600					1765	11050	11660	12510			
2000					2195	13520	14360	15400		8.0	
2500						2950	15980	17000	18260		





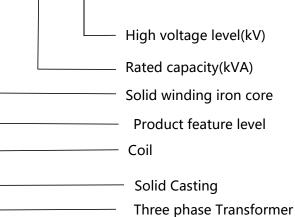
SCB Soliding Winding Iron Core Transformer

1. Altitude

Product Usage

The product has the following features: good insulation properties, high mechanical strength, moisture resistant, pollution-free, easy to install, and almost no need for maintenance. Can be applied for high rise buildings, wind power generation, solar energy, hospital, hotel, tunnel, station, wharf, airport, subway, petroleum, chemical industry, laboratory, combined power plant, shopping mall and other important places etc.

Transformer Model Description



Product Usage Conditions

Not more than 1000m

2. Cooling air temperature Max.Temp.:40°C Max.monthly mean temp:30°C Max.annual mean temp::20°C lowest temp:-25°C(suitable for outdoor transformer) lowest temp.:-5°C(suitable for indoor transformer)

3. Humidity

Ambient air relative humidity should be less than 93%. no water drop on the coil surface. If usage condition exceeds above requirements, should adjust running parameters (e.g. output current etc.) properly and adopt proper protecting measures to ensure the product service life and safety reliability





SCB Soliding Winding Iron Core Transformer

	Model	Rated		Rated Voltage	e	Vector-	No-load	120°C Load	No-load	Short- circuit	Noise
	Model	Capacity(kVA)	HV(kV)	Tapping Ranges	LV(kV)	group	Loss(W)	Loss(W)	Current (%)	Impendanc e(%)	Level (dB)
	SC10-30/10	30					190	710	0.9		50
	SC10-50/10	50					270	1000	0.9		50
	SC10-80/10	80					370	1380	0.9	101	50
	SC10-100/10	100					400	1570	0.6	FIX	50
	SC10-125/10	125					470	1850	0.6	11 11 12	50
	SCB10-160/10	160				20	540	2130	0.6	4.0	50
	SCB10-200/10	200		- AFF	P(D)	((5))	620	2530	0.5	4.0	50
	SCB10-250/10	250	PI	NII	PIN		720	2760	0.5		50
	SCB10-315/10	315	6 6.3	ING	20	Dyn11	880	3470	0.5		50
C	SCB10-400/10	400	6.6 10	₩ ±5% ±2×2.5%	0.4	or Yyn0	980	3990	0.4		50
((=	SCB10-500/10	500	10.5 11			ryno	1160	4880	0.4		50
C	SCB10-530/10	630					1340	5880	0.3		55
	SCB10-630/10	630					1300	5960	0.3		55
	SCB10-800/10	800					1520	6960	0.3		55
	SCB10-1000/10	1000					1770	8130	0.3		55
	SCB10-1250/10	1250					2090	9690	0.25	6.0	55
	SCB10-1600/10	1600					2450	11730	0.25		55
	SCB10-2000/10	2000					3050	14450	0.2		55
	SCB10-2500*10	2500					3600	17170	0.2		55

Dry Type Transformer

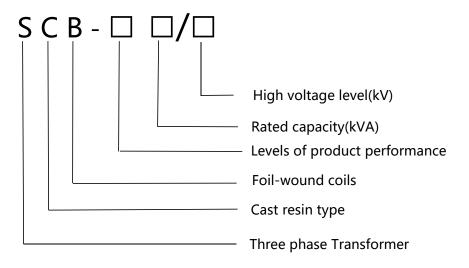
SCB10,SCB11,SCB13

Technical Data of SCB 10 Series 35kV Epoxy-resin Insulation Dry-type Transformer

Rated	F	Rated Voltage	2	Vector-	No-load	120℃ Load	No-load	Short-circuit
Capacity (kVA)	HV(kV)	Tapping Ranges	LV(kV)	group	Loss(W)	Loss(W)	Current(%)	Impendance(%)
50					500	1500	2.8	
100					700	2200	2.4	-01
160					880	2960	1.8	RV
200					980	3500	1.8	21(51)
250					1100	4000	1.6	ne.
315				AF	1310	4750	1.6	
400			an	151	1530	5700	1.4	
500	35-38.5	±5% ±2×2.5%	0.4	Dyn11 Yyn0	1800	7000	1.4	6
630		C	JU.	J	2070	8100	1.2	
800					2400	9600	1.2	
1000					2700	11000	1.0	
1250					3150	13400	0.9	
1600					3600	16300	0.9	
2000					4250	19200	0.9	
2500					4950	23000	0.9	



Transformer Model Description









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> • Oil Immersed Transformer



Performance advantage of solid winding iron wound core

Solid winding iron core transformer breaks the traditional planar structure, adopts solid triangle structure, making more reasonable combination of the iron cores by piecing three completely same single frames. The three phase magnetic circuits are perfect symmetry and same in length, ensure three phase power supply balance, decrease the magnetic resistance greatly, and reduce field current, no-load loss significantly. Thus the mechanical strength is higher, structure is more stable.

Features Advantages as below:

1.Reduce no-load current and loss greatly

2. Three phase magnetic circuit is balanced, no third harmonic, output waveform is sinusoidal, and ensure the quality of power supply waveform.

3.Low noise:iron core is winded constantly and precisely on special winding machine by several trapezoid strips whose width change constantly No seam, can solve noise of laminated core caused by magnetic circuit incoherence.
4.Has good heat dispersion:because of small no-load current, low no-load loss. calorific value of iron core is low. Adopt D

type semicircle iron yoke and pie - wound continuous high - voltage winding. formed highly efficient self-circulation heat dissipation structure with vertical ventilation and internal & external heat dissipation.

5.Small size:high space utilization coefficient, transformer adopts triangle structure, thus the volume is smaller than ordinary transformer, compact in structure, beautiful in out looking, covering a small area.

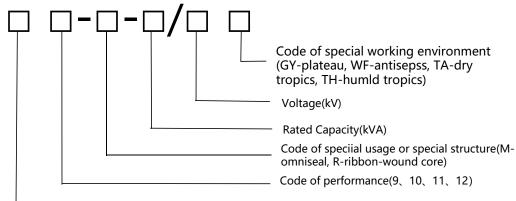
6.Iron core and coil of solid winding iron core transformer are a whole, iron core will not come loose, and the coil cannot be taken out, has good anti-theft performance.







Transformer Model Description



Letter of type(D-single phase, S-three phase, F-cool air, Z-on-load voltage regulation)

High Quality Material

Because we use oxygen-free copper lines of lower resistivity, which will become smoother and burr-free after series of additional surface treatment, so the load loss of our transformer is lower and the electric performance is better.

We use high-quality silicon-steel plates which are of lower unit loss, and the no-load of the transformers is lower.

We use high quality wooden laminating insulation pieces. which won't split or move even under the influence of short circuit

We use thoroughly filtrated transformer oil containing less water, gas and impurities, which makes our transformers work better.

We use high quality rubber sealing material, which can prevent the transformers from aging or leakage.

All raw materials has passed the quality testing, and all the raw material factories has pass through the national standard IS09000 inspection.



The height above sea level is below 1000m;

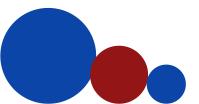
Ambient temperature: Highest air temperature +40°C; Highest dally average air temperature+30°C; Highest annual average air temperature+20°C; Lowest outdoor air temperature-25°C.

Transformer Special Use Conditions

The height above sea level is above 1000m;

Ambient temperature: Highest air temperature +40°C; Lowost air tomperaturo-45°C; (defines in detail when placing an order)







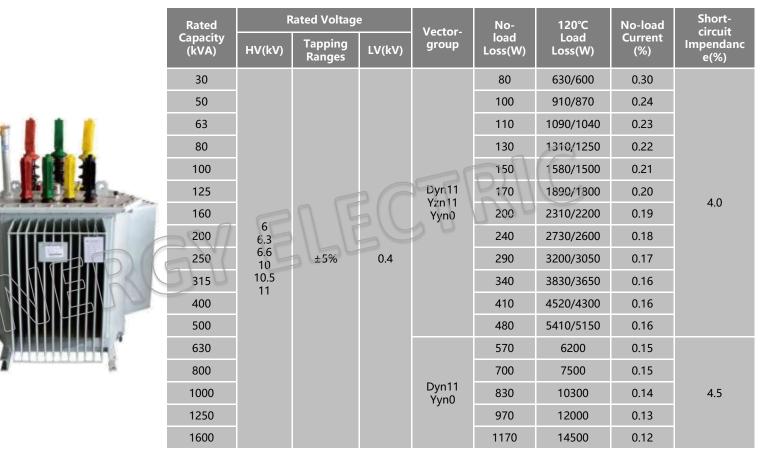




S13 SERIES OF WOUND CORE LOSS METER



Deted Compatibully (A)		
Rated Capacity(kVA)	No-load Loss(W)	120°C Load Loss(W)
30	100	630/600
50	130	910/870
63	150	1090/1040
80	180	1310/1250
100	200	1580/1500
125	240	1890/1800
160	280	2310/2200
200	340	2730/2600
250	400	3200/3050
315	480	3830/3650
400	570	4520/4300
500	680	5410/5150
630	810	6200
800	980	7500
1000	1150	10300
1250	1360	12000
1600	1640	14500



TIPS:

1. According to the needs of users, transformers with a high-voltage tap range of $\pm 2 \times 2.5\%$ can be provided.

2. According to user needs, transformers with low voltage of 0.69kv can be provided.

3. Other loss values can also be selected according to user needs.





Product introduction

This product implements national stangardsGB1094-1996 the power transformer "and GB/T6451-2008the three-phase oilimmersed power transformer technical parameters and requirements". S11 series transformer is the latest series of low loss copper windings products the products using high-quality materials.in coil implement body and insulation, using new craft.new material thus made racing.load loss reduced significantly, and performance and structure more reliable and superior.

Features

Good Economic Performance

The S11~S13 series products are based on the S9 series, the no-load loss is reduced by 30% on average, and the no-load current is reduced by 70%-85% compared with the S9 series.

The transformer oil tank adopts a fully sealed structure. The oil tank and the tank edge can be connected by bolts or welded to death. The transformer oil does not come into contact with the air, which prolongs the service life.

High Operational Reliability

The relevant parts of the fuel tank seal are improved to increase the reliability and improve the technological level to ensure the reliability of the seal.

Small Footprint

S11-M, S13-M series transformer oil tank adopts corrugated plate radiator. When the oil temperature changes, the corrugated plate thermal expansion and contraction can replace the role of the oil conservator. The corrugated plate oil tank has a beautiful appearance and small footprint.



Technical Data of S11 Series 10kV Low-Loss and Non-Exciting Regulation Power Transformer

Rated Capacity	R	ated Voltage	e	Vector-	No-	120°C	No-load	Short- circuit
Capacity (kVA)	HV(kV)	Tapping Ranges	LV(kV)	group	load Loss(W)	Load Loss(W)	Current (%)	Impendanc e(%)
30					100	630/600	0.80	
50					130	910/870	0.75	
63					150	1090/1040	0.75	
80		±5% ±2×2.5%	0.4		180	1310/1250	0.70	
100					200	1580/1500	0.65	
125					240	1890/1800	0.65	4.0
160					280	2310/2200	0.60	4.0
200	6 6.3			Dyn11 Yyn0	340	2730/2600	0.50	
250	10				400	3200/3050	0.50	
315	10.5 11				480	3830/3650	0.45	
400			9/6	リア	570	4520/4300	0.45	
500			511		680	5410/5150	0.40	
630			20		810	6200	0.40	
800					980	7500	0.35	
1000					1150	10300	0.35	4.5
1250					1360	12000	0.30	
1600					1640	14500	0.30	

Technical Data of S11 Series 20kV Low-Loss and Non-Exciting Regulation Power Transformer

	Rated	R	ated Voltage	2	Vector-	No-	120℃	No-load	Short- circuit
	Capacity (kVA)	HV(kV)	Tapping Ranges	LV(kV)	group	load Loss(W)	Load Loss(W)	Current (%)	Impendanc e(%)
	30					90	660	2.1	
	50					130	960	2.0	
	63					150	1145	1.9	
	80			31	241	180	1370	1.8	
	100		311	511	4	200	1650	1.6	
	125		216	15	2 "	240	1980	1.5	5.5
(160	$(\)$	56			290	2420	1.4	5.5
N	200	7				330	2860	1.3	
2	250					400	3350	1.2	
	315	20	±5% ±2×2.5%	0.4	Dyn11	480	4010	1.1	
	400					570	4730	1.0	
	500					680	5660	1.0	
	630					810	6820	0.9	
	800					980	8250	0.8	
	1000					1150	11330	0.7	
	1250					1350	13200	0.7	6.0
	1600					1630	15950	0.6	
	2000					1950	19140	0.6	
	2500					2340	22220	0.5	



Transformer Model Description

S 11(13) - M - □/□



Rated capacity(kVA)

- Enclosed structure
- Levels of product performance

Three phase oil-immersed Transformer

S11~S13 Series 10kV-35kV Low-loss And Non-exciting Regulation Power Transformer Product Features

Good economic performance

S11~S13 series product in the S9 series based on average reduced 30% no-load loss than idle current S9 70%-85% will. Long service life

Transformer tank adopts full seal structure, the tank along with box available bolt connection or welding die, transformer oil not contact with air and prolong the life.

Running high reliability

Tank sealing parts were concerned, increased reliability improvements to ensure and improve technology level of reliability of sealing.

Field area is small

S11-M,S13-M series transformer tank adopts wave plate radiator, when the oil temperature change corrugated plate heat bilges cold shrink can replace storage cabinet role,corrugated plate appearance tank, cover an area of an area small.









Technical Data of S11 Series 35kV Low-Loss and Non-Exciting Regulation Transformer

Rated Capacity	R	ated Voltage	9	Vector-	No-	70°C Load	No-load	Short- circuit	
Capacity (kVA)	HV(kV)	Tapping Ranges	LV(kV)	group	load Loss(W)	Loss(W)	Current (%)	Impendanc e(%)	
630					830	7870	1.10		
800					980	9410	1.00		
1000			3.15		1150	11540	1.00		
1250	35	±5%	6.3		1410	13940	0.90	6.5	
1600			10.5	Yd11	1700	16670	0.80		
2000					2180	18380	0.70		
2500					2560	19670	0.60	nPI	D
3150		±5%	3.15 6.3 10.5		3040	23090	0.56	JIPI	N
4000	35~			aE	3620	27360	0.56	7.0	
5000	38.5	±3%			4320	31380	0.48		
6300		((al	SSIE	5250	35060	0.48		
8000		(1	511	INF	7200	38480	0.42	7.5	
10000			2.15		8700	45320	0.42		
12500			3.15 3.3		10080	53870	0.40		
16000	35 ~ 38.5	±2×2.5%	6.3 6.6	Ynd11	12160	65840	0.40		
20000	38.5		10.5 11		14400	79520	0.40	8.0	
25000					17020	94050	0.32		
31500					20220	112860	0.32		

Technical Data of S13 Series 10kV Low-Loss and Non-Exciting Regulation Transformer

Rated	R	ated Voltage	9	Vector-	No-	75℃ Load	No-load	Short- circuit
Capacity (kVA)	HV(kV)	Tapping Ranges	LV(kV)	group	load Loss(W)	Loss(W)	Current (%)	Impendanc e(%)
30					80	630/600	0.80	
50					100	910/870	0.75	
63				AGE	110	1090/1040	0.75	
80		nn f	20	211	130	1310/1250	0.70	
100	7 [211 1		SU	150	1580/1500	0.65	
125		ELL	P.		170	1890/1800	0.65	4.0
160	$\int \mathcal{L}$				200	2310/2200	0.60	4.0
200	2				240	2730/2600	0.50	
250	6 6.3				290	3200/3050	0.50	
315	10	±5% ±2×2.5%	0.4	Dyn11 Yyn0	340	3830/3650	0.45	
400	10.5 11			,	410	4520/4300	0.45	
500					480	5410/5150	0.40	
630					570	6200	0.40	
800					700	7500	0.35	
1000					830	10300	0.35	
1250					970	12000	0.30	4.5
1600					1170	14500	0.30	
2000					1550	18300	0.25	
2500					1830	21200	0.25	



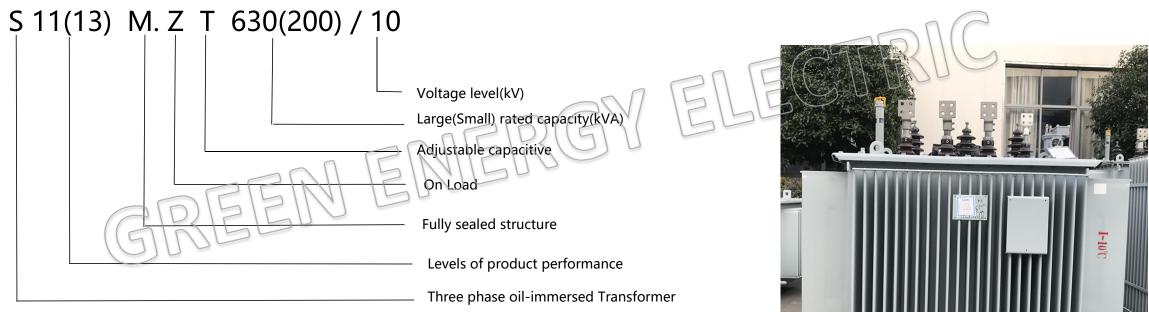


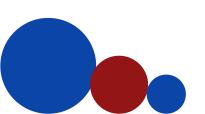


S11(13)-M.ZT

Distribution Transformer On-load Automatic Tuning Capacitor

Transformer Model Description





S11(13)-M.ZT distribution transformer on-load automatic tuning capacitor applicable scope

This product is fit for on-load automatic capacity distribution transformer voltage regulator rated frequency 50Hz, voltage class 10kv, three-phase rated capacity 100(30)kVA~630(200)kVA.

S11(13)-M.ZT distribution transformer on-load automatic tuning capacitor product introduction

S11(13)-M.ZT distribution transformer on-load automatic tuning capacitor is the distribution transformer with large and small rated capacity automatic tuning controller automatically detect judgment according to the user load size and trough a special load capacity regulating switch to auto switch two kinds of transformer capacity under the transformer is not the state of the power outage to realize automatically adjust size in the process of running transformer capacity.

S11(13)-M.ZT distribution transformer on-load automatic tuning capacitor usages and applicable scope

S11(13)-M.ZT distribution transformer on-load automatic tuning capacitor is suitable for the occasion with electricity strong seasonality, big load fluctuation, power of concentration and low annual average load rate. In China's rural, electricity mainly concentrated in summer and autumn and the rest of the season is primarily a lighting electricity. However.in the busy farming season transformer overload running phenomenon is serious. in the off-season, electricity load rate is low. So the on-load adjustable capacity distribution transformer is especially suitable for in the rural electric reform and also suitable for day and night electricity load differences of residential quarters and often day enterprises and institutions.







S11-M.ZT Distribution Transformer On-load automatic tuning capacitor

Rated	R	ated Voltage	e	Vector-	No-load	120°C Load	No-load	Short- circuit
Capacity (kVA)	HV (kV)	Tapping Ranges	LV (kV)	group	Loss(W)	Loss(W)	Current(%)	Impendanc e(%)
160(50)					280(130)	2310(870)	1.6(0.8)	
200(63)					340(150)	2730(1040)	1.5(0.7)	
250(80)				Dyn11 (Yyn0)	400(180)	3200(1250)	1.4(0.7)	4.0(4.0)
315(100)	10	±2×2. 5%	0.4		480(200)	3830(1500)	1.4(0.7)	4.0(4.0)
400(125)		• • •		(1)110)	570(240)	4520(1800)	1.3(0.6)	
500(160)					680(280)	5410(2200)	1.2(0.6)	
630(200)					810(340)	6200(2600)	1.1(0.5)	4.5(4.0)

Note: 1. to small capacity parameters within the paretheses. 2. for other groups and the corresponding technical parameters of connection for non optimal parameters, please consult with me.

S11-M.ZT Distribution Transformer On-load automatic tuning capacitor

Rated Capacity	F	Rated Voltag	е	Vector-	No-load	120°C Load	No-load	Short- circuit	
Capacity (kVA)	HV (kV)	Tapping Ranges	LV (kV)	group	Loss(W)	Loss(W)	Current(%)	Impendanc e(%)	
160(50)					280(130)	2310(870)	1.6(0.8)		
200(63)					340(150)	2730(1040)	1.5(0.7)		
250(80)					400(180)	3200(1250)	1.4(0.7)	4.0(4.0)	
315(100)	10	±2×2.5 %	0.4	Dyn11 (Yyn0)	480(200)	3830(1500)	1.4(0.7)	4.0(4.0)	
400(125)		-10	R	(570(240)	4520(1800)	1.3(0.6)		
500(160)	7 (511	IE	S	680(280)	5410(2200)	1.2(0.6)		
630(200)		GL			810(340)	6200(2600)	1.1(0.5)	4.5(4.0)	

Note: 1. to small capacity parameters within the paretheses. 2. for other groups and the corresponding technical parameters of connection for nonoptimal parameters, please consult with me.

S11(13)-M.ZT distribution transformer on-load automatic tuning capacitor fundamental principles

When the distribution transformer on-load automatic tuning capacitor is at the large capacity three-phase high voltage windings

into delta connection with low voltage winding parallel structure ; When at the small capacity. Three-phase high voltage windings in y connection with low voltage winding tandem structure.

Transformation of angle joint and star joint of high voltage windings and transformation of series connection and parallel connection of low voltage windings are finished by on-load capacity switch which is decided by automatic controller according to the size of load of detection.

When the large capacity transforms into the small capacity of transformer the core magnetic flux density slash, loss of silicon steel sheet smaller and no-load loss and no-load current also fell sharply which lead to greatly reduces the transformer no-load reactive power loss and wattful loss in the result of reaching reducing consumption.

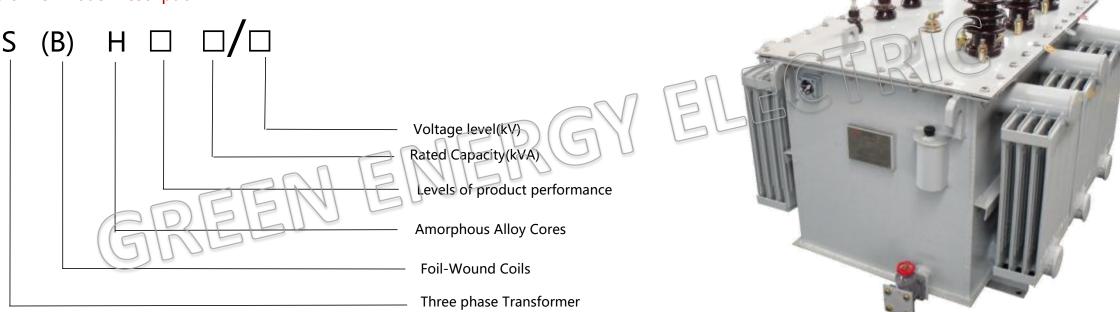


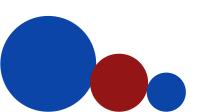


S(B)H15-M

Sealed Non-Crystaling alloy Power Transformer

Transformer Model Description







Rated	R	ated Voltage	9	Vector-	No-	120°C	No-load	Short- circuit
Capacity (kVA)	HV(kV)	Tapping Ranges	LV(kV)	group	load Loss(W)	Load Loss(W)	Current (%)	Impendanc e(%)
30					33	600	1.70	
50					43	870	1.30	
63					50	1040	1.20	
80					60	1250	1.10	
100					75	1500	1.00	DON
125					85	1800	0.90	4.0
160					100	2200	0.70	Gj.U
200				n	120	2600	0.70	
250	6 6.3	Pal	0.4	\sim	140	3050	0.70	
315	10 10.5	.±5% ±2×2.5%		Dyn11 Yyn0	170	3650	0.50	
400	10.5	SIL	LEI	-	200	4300	0.50	
500	חוב				240	5150	0.50	
630					320	6200	0.30	
800					380	7500	0.30	
1000					450	10300	0.30	4.5
1250					530	12000	0.20	
1600					630	14500	0.20	
2000					750	17400	0.20	5
2500					900	20200	0.20	5

Technical Data of SH15-M Series Non-Crystaling Alloy Power Transformer

SH15-M sealed non-crystaling alloy power transformer product introduction

The transformer is full oil-filled sealed type.Whose principle is the same with sealed type transformer.Basic elements of non-crystailine alloy consist of Fe,Ni,Co,Si,B.C,etc.It is a kind of homotrop isa soft floppy material whoseadvantages of low magetic susceptibitity.No hindered divisional movement faults.







D9-D13

X3

EDEESTE

50

<60°

NO PCP

Oil-filled single-phase overhead transformers designed and produced by GE are normally used for stepping utility distribution voltages (ranging from 2400 to 34500 volts) down to lower utilization voltages. Although some are used for stepping down to commercial and industrial voltages such as 277, 240/480, 2400 and 4800, most are used for stepping down to the single-phase voltage of 120/240. These same transformers are also used for small substations, miscellaneous applications and can serve to step up voltages.

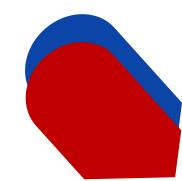
The transformer type describes the basic protective devices which are included as an integral part of the transformer package. Table defines each type as a function of the protective device(s) included. These protective devices and their functions are described later in this section.

	Туре	CSP	СР	SP	S
Protective Devices	High Voltage Surge Arrester	Yes	No	Yes	No
	Low Voltage Circuit Breaker	Yes	Yes	No	No
	High Voltage Protective Link	Yes	Yes	Yes	No

Anhui Green Energy Electric Co., Ltd.

ACCESSORY

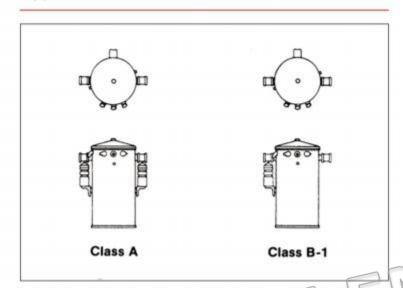
SURGE ARRESTERS
 PROTECTIVE LINKS
 CURRENT-LIMITING FUSES
 LOW VOLTAGE CIRCUIT BREAKER
 CIRCUIT BREAKER EMERGENCY CONTROL
 SINGAL LIGHTS
 PROTECT-COMBO
 TAP CHANGERS
 DUAL VOLTAGE SWITCH
 TANK PRESSURE RELIEF







Type CSP, 5 kV and Below, 10-100 kVA



Class A:Two fully insulated high voltage bushings, two arresters, two protective links, and external breaker handle. Suitable for application on either wye or delta distribution systems. Single-position pole mounting in accordance with latest ANSI standards.

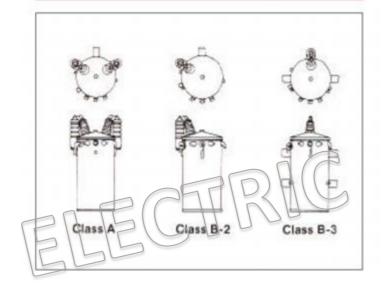
Class B-1: Two fully insulated high voltage bushings,one arrester, two protective links and external breaker handle. Normally applied on solidly grounded systems.

Class B-2: Not Available.

Class B-3: Not Available.

Type CSP, Above 5KV, 10-100 kVA





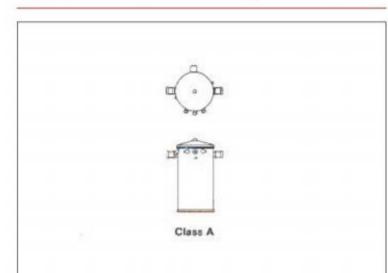
Class A: Two fully insulated high voltage bushings, two arresters, two protective links and external breaker handle suitable for application on either wye or delta distribution systems. Single-position pole mounting in accordance with latest ANSI standards.

Class B-1: Two fully insulated high voltage bushings, one arrester, two protective links and external breaker handle. Normally applied on solidly grounded systems.

Class B-2: One fully insulated high voltage bushing, one arrester, one protective link and external breaker handle suitable only for application on solidly grounded distribution systoms. Single-position pole mounting in accordance with latest ANSI standards.

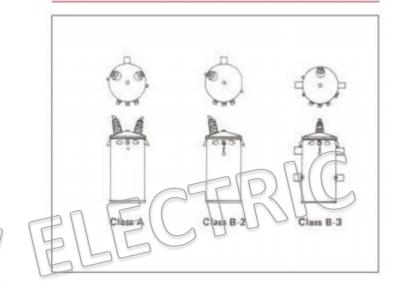
Class B-3:Same as Class B-2 except with two-position mounting.

Type S. 5kV and Below, 10-500 kVA



Type S. Above 5 kV, 10-500 kVA



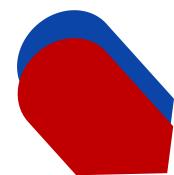


Class A: Two fully insulated high voltage bushings, suitable for application on either wye or delta distribution systems. Singleposition pole mounting in accordance with latest ANSI standards. Class B-1: Not Available Class B-2: Not Available Class B-3: Not Available **Class A:** Two fully insulated high voltage bushings, suitable for application on either wye or delta distribution systems. Single-position pole mounting in accordance with latest ANSI standards.

Class B-1: Not Available

Class B-2: One fully insulated high voltage bushing, suitable only for application on solidly grounded distribution systems. Single-position pole mounting in accordance with latest ANSI standards.

Class B-3: Same as Class B-2 except with two-position mounting.



STANDARD FEATURES

1. LIFTING LUGS

2. ARRESTER MOUNTING PADS

3. COVER-MOUNTED HIGH VOLTAGE PORCELAIN BUSHING(S) WTH EYEBOLT TERMINAL

4. LOW VOLTAGE BUSHINGS WTH EYEBOLT TERMINALS

5. LOW VOLTAGE NEUTRAL GROUNDING STRAP (NOT SHOWN) (10-50 KVA

CLASS B-2 AND B-3 ONLY)

6. ANSI SUPPORT LUGS (HANGER BRACKETS) WTH LASER INSCRIBED

NAMEPLATE ON LOWER BRACKET

7. POLYESTER INSULATED COVER

8. SELF-VENTINGAND RESEALING COVERASSEMBLY

9. CORE

10. COIL

11. CENTERLINE CORE/COILASSEMBLY SUPPORT BRACKETS 12. LOW VOLTAGE LEADS

13. OIL FILL PLUG WITH COVER GROUND STRAP

14. TANK GROUND PAD THE FOLLOWING ADDITIONAL FEATURES AREALL

STANDARD ON SELF-PROTECTEDTYPE CSP UNITS ONLY

15. PRIMARY PROTECTIVE LINK(MOUNTED IN HIGH VOLTAGE BUSHING)

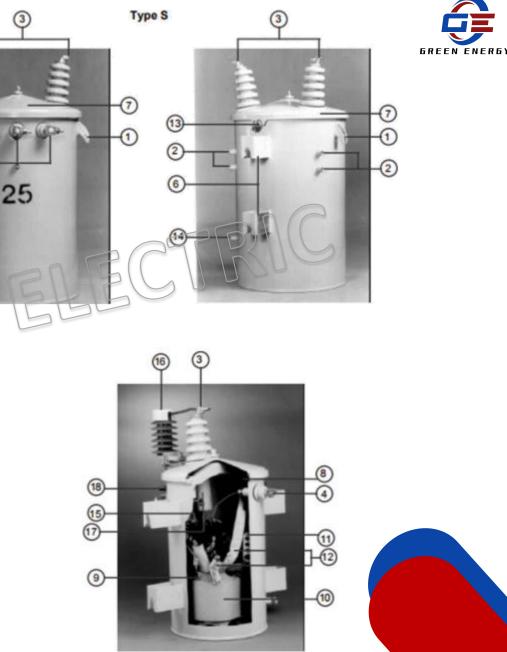
16. SURGE ARRESTER

17. SECONDARY CIRCUIT BREAKER

18. SECONDARY BREAKER OPERATING HANDLE WITH EMERGENCY

OVERLOAD RESET AND OVERLOAD SIGNAL LIGHT

Anhui Green Energy Electric Co., Ltd.



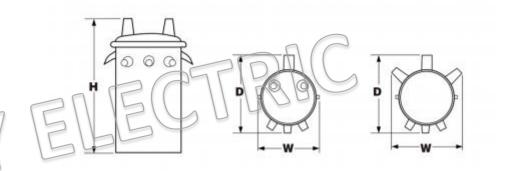
Type CSP*



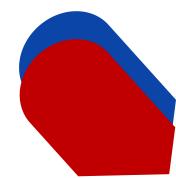
Technical Data for Single-phase Overhead Conventional Distribution Transformer

Rated	Rated Capacity HV(V) (KVA)	LV(V)	Loss	(W)	Dim	ension(Weight(kg)			
			No-load Loss (W)	On-load Loss(W)	W	D	н	Oil Weight	Total Weight	
5			19	75	465	485	855	15	92	
10		120-240 240-480 347	36	120	500	525	885	22	150	
15			50	195	520	565	905	30	210	
25	34500/19920 13800/7957		80	290	560	590	935	45	258	
37.5	13200/7620		105	360	610	625	935	50	340	
50	12470/7200 Customized	600	135	500	635	675	1035	62	395	
75			190	650	745	840	1035	88	480	
100				210	850	770	965	1135	94	530
167		OF	350	1410	795	890	1335	138	680	
*Note: The	above data is onl	y subject to	our standard	design,spec	ial requirer	nent can	be customi	zed.		

Single Phase Overhead Conventional Transformer



Product Scope: kVA: 5-167 Primary Voltage: 2400-19,920 V Secondary Voltage: 120-600 V



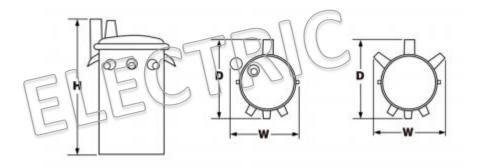


Technical Data for Single-phase Overhead Completely Self Protected(CSP) Distribution Transformer

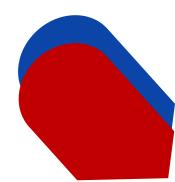
Rated	Rated Capacity HV(V) (KVA)	LV(V)	Loss(W)		Dim	ension(I	Weight(kg)		
			No-load Loss (W)	On-load Loss(W)	w	D	н	Oil Weight	Total Weight
5			35	75	400	530	960	30	115
10		120-240 240-480 347 600	50	120	430	530	980	45	150
15	34500/19920 13800/7957		65	195	480	580	1000	55	205
25	13200/7620		105	290	500	580	1030	66	245
37.5	12470/7200 Customized		140	360	560	640	1080	78	335
50			180	500	560	640	1130	85	370
75		250	650	780	800	1170	138	505	

*Note: The above data is only subject to our standard design, special requirement can be customized.

SINGLE-PHASE OVERHEAD COMPLETELY SELF PROTECTED (CSP) TRANSFORMER



Product Scope: kVA: 5-75 Primary Voltage: 2400-19,920 V Secondary Voltage: 120-600 V







> • Power Transformer



110kV-220kV Oil-Immersed Power Transformer

<u>110kV~220kV Oil-immersed Power Transformer Product Introduction</u>

1.High pressure transformer, use Japanese Toshiba analysis software and our company special calculation and validation procedures to the transformer core, winding, implement body, lead, fuel tanks, etc. Parts of the optimal design and carry on the omni -directional validation, ensure product performance. Superior process equipment, elaborate material selecting and efficient manufacturing making the transformer has small volume, light weight, low loss, low partial discharge, low noise characteristics.the product quality is superior energy conservation and environmental protection. easy installation and maintenance, reliable operation and effectively reduced products running costs.

2.the company product SSZ11-40,000/110 through national transformer quality supervision and inspection center short-circuit withstand ability and all type test routine.

3.this product is stable, reliable, economic, environmental protection, applicable to the characteristics of generator, transformer substation, large mining petrochemical enterprise etc.











Technical Data of 3 Phase 2 Winding Power Transformer On-Load Changer

Rated	Rated Voltage		Vector-	No-load	75℃ Load	No-load	Short-circuit	
Capacity(kVA)	HV(kV)	LV(kV)	group	Loss(W)	Loss(W)	Current(%)	Impendance(%)	
6300			YNd11	10.0	36	0.80		
8000				12.0	45	0.80		
10000				14.2	53	0.74		
12500				16.8	63	0.74		
16000		6.3 6.6 10.5 11		20.2	77	0.69		
20000	110±8 ×1.25%			24.0	93	0.69	10.5	
25000				28.4	110	0.64		
31500				33.8	133	0.64	nEL	
40000				40.4	156	0.58	NIEU	
50000				47.8	194	0.58	UL	
63000		F	D)	56.8	2.34	0.52		



Technical Data of 3 Phase 3 Winding Power Transfor	rmer On-Load Changer
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Rated	Rated Voltage			Vector-	No-load	75℃	No-load	Short-circuit	
Capacity(kVA)	VA) HV(kV) HV(kV) LV(kV) group Loss(W		Loss(W)	Load Loss(W)	Current (%)	Impendance (%)			
6300					12.0	47	0.95		
8000					14.4	56	0.95		
10000		35	26	DAL.	17.1	66	0.89		
12500	P		511	JUC	20.2	78	0.89	HV-M V	
16000	110±		6.3		24.2	95	0.84	10.5	
20000	8×1.2	37	6.6 10.5	YNd11	28.6	112	0.84	HV-LV	
25000	5%	38.5	11		33.8	133	0.78	17.5-18.5	
31500					40.2	157	0.78	MV-LV 6.5	
40000					48.2	189	0.73		
50000					56.9	225	0.73		
63000					67.7	270	0.67		
1. 10 type pr									

2. 11 type products: no-load loss dropped 20%; Load loss by 5%





Technical Data of 3 Phase 3 Winding Non-Fileld Excitation Changer Self Coupling Power Transformer

Deted	Rated Vo		Rated Voltage		Step-up Combination			Step-down Combination			Short-circuit Impendance(%)														
Capacity(kVA)	HV(kV)	HV(kV)	LV(kV)	Vector- group	No-load Loss(W)	Load Loss(W)	No-load Current(%)	No-load Loss(W)	Load Loss(W)	No-load Current(%)	Step-up	Step-down													
31500			6.6 10.5		25	117	0.57	22	99	0.50		ne													
40000					29	144	0.57	26	121	0.50	ALLE	KUG													
50000		3 115 121 1 1	115 121		115 121	115 121	11 35 37 38.5 115 121 10.5 11 13.8						11 35		34	170	0.50	30	144	0.43	900	0			
63000	220±2																				40	201	0.50	36	171
90000	×2.5% 242±2							AE	YNa0d 11	50	276	0.43	46	234	0.36	HV-LV 8-12	HV-LV 28-34								
120000	×2.5%							El	EL	EL		EL			E		0 5	62	340	0.43	56	288	0.36	MV-LV 14-18	MV-LV 18-24
150000	JUC																73	405	0.36	66	342	0.33			
180000			18 35 37		84	463	0.36	76	387	0.33															
240000			38.5		99	595	0.33	89	504	0.25															



Power Transformer



Technical Data of 3 Phase 3 Winding Power Transformer On-Load Changer

Rated Capacity(kVA)	Rated Voltage		Vector-	No-load	75℃ Load	No-load	Short-circuit
	HV(kV)	LV(kV)	group	Loss(W)	Loss(W)	Current(%)	Impendance(%)
31500	220±8 ×1.25%	6.3 6.6 10.5 11 35 37 38.5 10.5 11 35 37 38.5	6.6 10.5 11 35 37 38.5 10.5 YNd11 11 35 37	38	135	0.70	
40000				45	157	0.63	
50000				54	189	0.56	
63000				63	220	0.56	nEE
90000				80	288	0.49	NIGU
120000				99	346	0.49	12-14
150000				116	405	0.42	
180000				135	468	0.42	
120000				102	355	0.49	
150000				120	415	0.42	
180000				140	475	0.42	

Technical Data of 3 Phase 2 Winding Power Transformer On-Load Changer

Nateu		Rated Voltage		Vector	No-	75℃ Load	No-load	Capacity	Short- circuit
Capacity(k VA)	HV(k V)	HV(k V)	LV(k V)	- group	load Loss(W)	Loss (W)	Current (%)	Assignment	Impendanc e(%)
31500			6.2		44	162	0.77		
40000		69 115 121	115	YNyn 0d11	52	189	0.70	100/100/ 100 100/50/1 00	HV-M V 10.5 HV-LV 17.5-18.5
50000					60	225	0.63		
63000	220				70	261	0.63		
90000	±8× 1.25				92	351	0.56		
120000	%				115	432	0.56	100/100/	
150000					135	513	0.49	50	MV-LV 6.5
180000					156	630	0.49		
240000					193	780	0.45		







Technical Data of 3 Phase 3 Winding Power Transformer On-Load Changer

Rated	Rated Voltage		Vector-	No-load	75℃ Load	No-load	Capacity	Short-circuit	
Capacity(kVA)	HV(kV)	HV(kV)	LV(kV)	group	Loss(W)	Loss(W)	Current(%)	Assignment	Impendance(%)
31500			6.3 6.6 10.5 11 35 37 38.5 10.5 11 35 37 38.5	YNa0d11	25	108	0.56	100/100/50	HV-M V 8-10 HV-LV 28-34 MV-LV 18-24
40000					30	132	0.56		
50000					36	157	0.49		
63000					42	189	0.49		
90000	220±8× 1.25%				51	247	0.42		
120000	PI				64	307	0.42		
150000	KEL				76	365	0.35		
180000	02				85	419	0.35		
240000					104	540	0.30		
1. 10 type products: no-load loss dropped 10%; Load loss by 5%									

2. 11 type products: no-load loss dropped 20%; Load loss by 5%







> • Pad Mounted Transformer

Pad Mounted Transformer

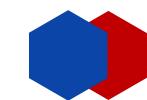


ZGS11-H(Z) Combined Transformer

ZGSI 1-H(Z)Combined Transformer Product Introduction

ZGS11 series combined transformer is a new type of power distribution equipment (also called American box variable), is will high-voltage switch plug-in fuse, high-pressure current limiting fuse installed in transformer, the insulation and cooling with mineral oil, with reasonable structure compact, small volume, installation flexible, convenient operation, cover an area of an area small, etc. Combined transformer is especially applicable to the load center city grid, to reduce the consumption, improve the quality of power supply. This series of products has been widely used in communities across the country, and public places, industrial mining enterprises etc distribution sites.





Pad Mounted Transformer





radial feed

ZGS11-H(Z) Combined Transformer Product Features

1. Compact structure and easy installation.

2. Sealed and fully insulated structure to ensure personal safety.

3. It can be used for radial feed and loop feed, which is convenient for conversion and improves the reliability of power supply.

4. Low loss, low noise and superior performance.5. The cable connector adopts the plug-in form, which has the characteristics of isolation switch, convenient operation and flexibility.

6. High voltage double welding wire protection, the inserted welding wire has temperature and current dual sensitive protection performance

7. Transformer fault backup welding wire and second-line fault protection.

8. The box adopts anti-theft structure.

9, low temperature, strong overload capacity10. Due to the special structure of the transformer body, its outstanding advantages are high quality and small neutral point voltage offset.



loop feed

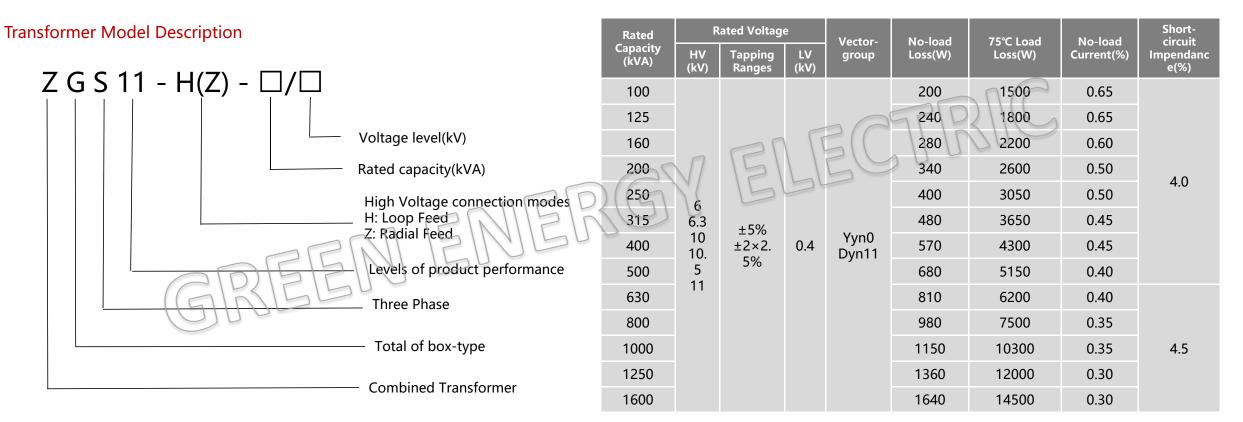


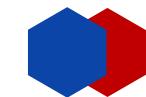


Pad Mounted Transformer



Technical Data of ZGS11-H(Z) Combined Transformer







> • Compact Substation



YB-PRE Compact Substation(European box variable)

YB-PRE Compact Substations Series (European Box Variable) Product Introduction

YB type compact substations and says Europe type box change, GB17467-1998 product conforms to the high and low voltage substation and IEC1330 preinstalled type, such as a new standard for power distribution equipment, it than conventional civil substation has many advantages. Because of its small volume, cover an area of an area small, compact structure, easy to move, thus greatly shorten the construction period and covers an area of, also reduced the infrastructure expenses. Meanwhile, the box-type converting stations on site installation is simple, rapid, equipment maintenance simple power substation, without special, especially it can further load centers, to improve the quality of power supply reduce power loss, enhance the reliability and power of distribution network re-election are important. Complete electricity transformation change box, the distribution, transmission, measurement, compensation, system control, protection and communications functions

By high-voltage switchgear YB engineering-type substation, low-voltage distribution screen, distribution transformer and shell with a combination of four sections, high-voltage air load switch, transformer for dry type transformer or oilimmersed transformer Cabinet adopted good insulation ventilation structure, appearance beautiful generous, heat insulation performance is good, and the upper body sets, outdoor ventilated for every shot ducts and high or low voltage transformer room temperature can reduce the room caused to a minimum The cabinet to furnish temperature control forced ventilation device and automatic temperature control device sun. Each independent units installed perfect control, protection, charged display and lighting system.









Compact Substation

<u>YB-PRE Compact Substations Series (European Box Variable) Application</u> Scope

Applicable to below 35KV voltage, etc, the main transformer capacity 5000KVA and below small substations, widely used in substation halting city industry substation, consumers 10KV ring net system, rural 35KV substation and so on.

YB-PRE Compact Substations Series (European Box Variable)Main Function

Complete electricity transformation, distribute, transmit, measurement, compensation, the system of control, protection and communications functions.

YB-PRE Compact Substations Series (European Box Variable) Main Features

Will the primary and secondary equipment installed a portable sealed, temperature control, anti-corrosion moisture-proof anti-rust the cabinet, arriving at the just installed in cement basis. Has less investment, construction period is short, covers an area of less, easy and harmonious environment etc. Characteristics.





Compact Substation



Technical Data of YB-Pre-installed Substation

		ltem	Unit	Data
		Rated Frequecy	Hz	50
		Rated Voltage	kV	6 10 35
		Max Working Voltage	kV	6.9 11.5 40.5
	HV	Industrial Frequency Voltage-Resisting Time/isolation Ballistic Voltage-Resisting	kV	32/36 42/48 95/118
	ΠV	Thunder and Lighting Ballistic Voltage-Resisting Time/isolation Sectional Port) kV ((60/70 75/85 185/215
		Rated Current	A	400 630
	20	Rated Brief-period Current-Resisting	kA	12.5(2s) 16(2s) 20(2s)
	0(5)	Rated Crest Value Current-Resisting	kA	32.5 40 50
	NU	Rated Voltage	V	380 220
		Rated Current of Major Return Circuit	А	100-3200
		Rated Short-Circuit Current-Resisting	kA	15 30 50
	LV	Rated Crest Value Current-Resisting	kA	30 63 110
		Branch Circuit	А	10-800
		Quantity of Branch	Branch	1-12
		Compensation Circuit	kVAR	0-360
Burney and B		Rated Capacity	kVA	50-2000
	Transforming	Short-Circuit Inpendance	%	4 6
	Hanstonning	Scope of Branch Connection		±2×2.5% ±5%
		Vector Group		Yyn0 Dyn11
Anhui Green E	nergy Electric	c Go., Ltd.		





> • Switchgear/Switchboard



Switchgear/Switchboard



GGD Low Voltage Fixed Equipment Set

GGD Low Voltage Fixed Set Equipment is suitable for AC 50Hz/60Hz, rated working voltage to 660V, rated current to 6300A and below power supply system. It is widely used in low voltage distribution systems in power plants, substations, industrial and mining enterprises, high-rise buildings and other fields as power receiving, feeding, reactive power compensation, energy metering, etc. Electric energy conversion, distribution and control, such as lighting and motor control center. Based on the principle of safety, economy, rationality and reliability, the product has the characteristics of high breaking capacity, good dynamic and thermal stability, flexible electrical scheme, convenient combination, strong seriality and practicability, novel structure, etc. This product meets IEC60439-1, GB7251 "Low Voltage Switchgear and Control Equipment" and other related standards.

Transformer Model Description

GGD

Electric power cabinet

Electrical components Fixed Installation and Fixed Wiring



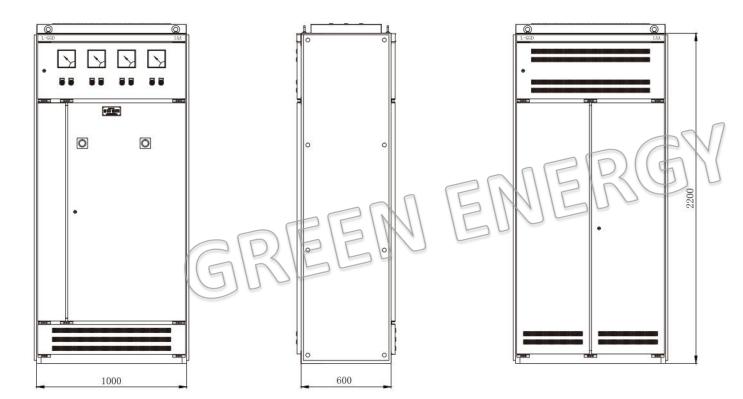
Closed switchgear



Switchgear/Switchboard

GGD

Low Voltage Fixed Equipment Set



Normal Use Environmental Conditions

1. The ambient air temperature is not higher than $+40^{\circ}$ C, not lower than -5° C, and the average temperature is abused within 24 hours. If it is not higher than $+35^{\circ}$ C, the capacity of the equipment should be reduced when it exceeds the above environment.

2. Relative humidity should not exceed 50% at the highest temperature of +40°C. Higher relative humidity is allowed at lower temperatures, such as 90% at +20°C. Consideration should be given to the occasional effect of condensation due to temperature variations.

3. Usually the altitude of the installation site does not exceed 2000m. For places over 2000m, the capacity should be reduced accordingly.

4. Installation without fire, explosion, serious dust and chemical corrosion. Places free from violent vibration and shock.

5. If the above-mentioned conditions of use are not satisfied, they should be settled through negotiation between the user and the manufacturer.



Switchgear/Switchboard



GGD

Low Voltage Fixed Equipment Set

Serial Number	Pro	Parameter	
1	Rated insulation voltage		660V(1000V)/AC
2	Rated operating voltage		380V(660V)/AC
3	Overvoltage level		IV
4	Class of pollution		3
5	Rated Frequency		50(60)Hz
6	Rated impulse withstand voltage		8KV
7		Rated current	To 6300A
	Main Bus	icw	То 100КА
		Rated peak tolerable current	То 220КА
8	Protection Level		IP30
9	Equipment Height		2200mm
10	Equipment Width		600,800,1000,1200mm
11	Depth of equipment		600, 800mm
12	Depth of equipment		600,800,1000,1200mm

When ordering, the user should provide the following information:

 Main circuit scheme diagram and primary system diagram.
 Auxiliary circuit electrical schematic diagram, terminal arrangement diagram, such as no schematic diagram, terminal arrangement diagram, according to the manufacturer's standard.

3. Equipment Arrangement and Combination Diagram and Plane Arrangement Diagram.

4. Types, specifications and quantities of main electrical components in the equipment.

5. Data of bus span and height from ground should be provided for the mode and specifications of incoming and outgoing lines, such as bus connection between equipment or incoming units.

6. Surface color of equipment.

7. Other special requirements shall be settled through consultation with the manufacturer.

