

Main Products

- ▲ Control Transformer
- ▲ Reactor
- ▲ Voltage Regulator
- ▲ Variable Frequency Power Source
- ▲ Three-Phase Transformer
- ▲ Single, Three-Phase Voltage Stabilizer
- ▲ UPS Power Source
- ▲ DC Power Source

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Jinbao Subscription
Number

金保爾電器
Kim Bodyguard-perfect
數控穩壓領導者
Numerical Control Stabilizer Leader



USE THE INSTRUCTIONS

Numerical control type high-precision AC voltage stabilizer



KBTW / KBTWT Series

- ▲ Before installing and using the voltage stabilizer, please read the manual in detail.

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I. Product Introduction

1. Overview

KBTW/KBTWT series numerical control type high-precision AC voltage stabilizers are high-end voltage stabilizer products developed by KING BAO through technology certification. The products are upgraded based on SBW, adopt the structure of three-phase column type voltage regulators, break through the traditional design concept of external compensation, integrate the technology design of compensation inside the column to reduce the volume and save the user's occupation space, eliminate the trouble of connecting a zero line to the input, improve the overall safety performance and increase a real servo drive structure, perfectly improve all the details from the operation panel, control system, sampling circuit, protection device, alarm status, appearance technology, etc. to achieve further leapfrogging of the global regulated power sources. More than ten professional applications have been carried out this series of products. The successful development of the KBTW/KBTWT series of innovative products has once again accelerated the pace of KING BAO power sources becoming the industry leader.

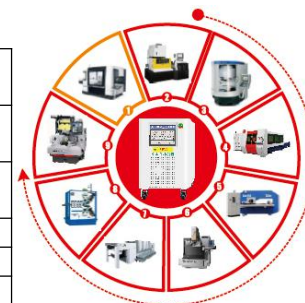
2. Functional characteristics

KBTW adopts large-scale linear logic integration to form a control system, adopts imported PLC chips and electronic components, controls AC servo motors to drive contact voltage regulating coils to automatically regulate voltage, and sets delay, overvoltage, undervoltage, under-phase and overload protection function to ensure safe and stable power supply of the voltage stabilizers. The products have the advantages of reasonable and attractive appearance, convenient installation, small size, light weight, convenient operation, wide application, high efficiency, no spark, large contact surface of carbon brushes, zero line access, small waveform distortion, high output voltage precision, energy conversation and environmental protection, low loss, low failure rate, free maintenance, continuous 24-hour work throughout the year and full-function protection.



3. Scope of application

• Equipment Voltage Test	• Industrial Precision Equipment
• Medical Equipment	• Planetary Communication System
• CNC Machine Tool Power Voltage Stabilization	• Laser Equipment
• Road Facility System	• Automation Equipment
• Bank Financial System	• Printing Machinery
• Tool Grinding Machine	• Corporate Electricity Room



II. Description of Appearance

1. Front panel operating instructions



① Status indicator lamps are set for a function meter in this area. Set current item when LED is on.

② Press key to modify project parameters corresponding to the following function table:

Left Window	Middle Window	Right Window	Light/Function	Description
1-1	---	000	Unlock password	Enter the password "006" after unlocking, you can modify the following various parameters, otherwise you can only view but cannot modify
2-1	---	380	Set voltage	Set the output voltage stability value, which must match the nameplate voltage
2-2	---	2.0	Voltage stabilization precision	The error range of the allowable output voltage stability value can be modified between $\pm 1\%$ and $\pm 10\%$, the default setting is $\pm 2\%$
2-3	---	003	Delay time	Set the delay voltage regulation start time, which can be regulated at 0-60 seconds, the default setting is 3 seconds.
2-4	-1-	410	Overvoltage alarm	Set the overvoltage alarm limit, default to alarm at the output voltage more than 410V alarm
2-5	-1-	350	Undervoltage alarm	Set the undervoltage alarm limit, default to alarm at the output voltage less than 350V
2-6	A-B	ab phase voltage	ab phase output voltage correction	Calibrate the ab phase output voltmeter to display a voltage matching the actual output voltage
2-6	B-C	bc phase voltage		Calibrate the bc phase output voltmeter to display a voltage matching the actual output voltage
2-6	C-A	ca phase voltage	ca phase output voltage correction	Calibrate the ca phase output voltmeter to display a voltage matching the actual output voltage
6-1	000	000	Number of actions	Number of bounces of controller relay
7-1	000	000	Use time	How long has the controller been running
Press to change the contents of this column			When 1-1 enters the correct password "X", press or to modify the default value of the corresponding parameter and save it automatically. Otherwise, you can only view the parameters. After all the data is modified, press to complete.	

This button is used to add values in the function table.

This button is used to reduce values in the function table.

This button is used to confirm after the setting of the function table.

③ LED in this area is an abnormality alarm indicator, which can tell the user the current fault information of the voltage stabilizer when the machine fails.

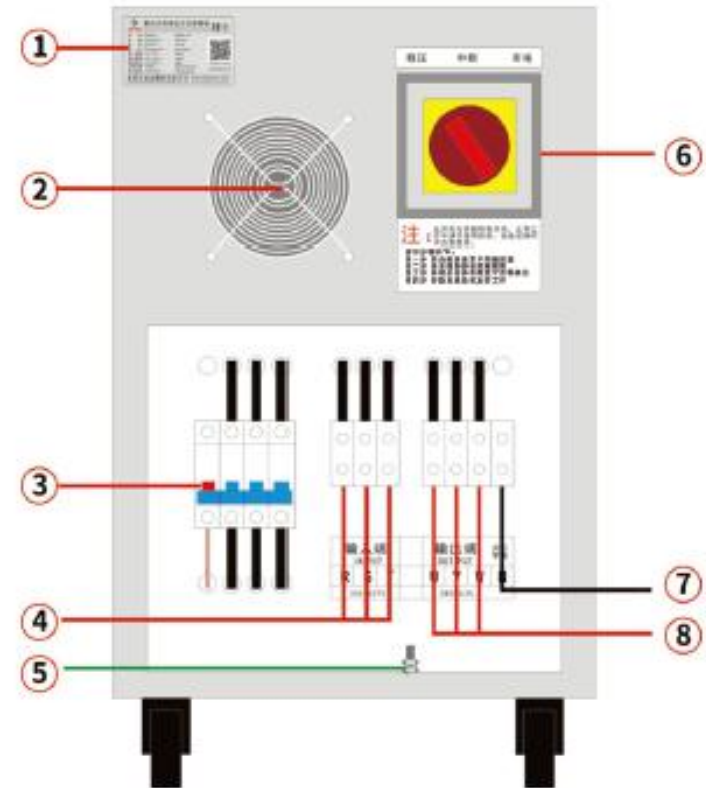
④ This button is a manual voltage regulation mode. When this button is pressed for 5 seconds, the LED light will be on and the manual voltage regulation mode will be entered.

This button is a boost button in the manual voltage mode.

This button is a buck button in the manual voltage mode.

⑤ This button shows an automatic voltage stabilization mode. Pressing this button in any status will automatically switch to the automatic voltage stabilization mode.

2. Description of rear door panel



① Product nameplate

② Cooling fan

③ Main power switch

④ Three-phase live line mains input terminal (connected to the customer switch line)

⑤ Ground terminal

⑥ Bypass emergency transfer switch

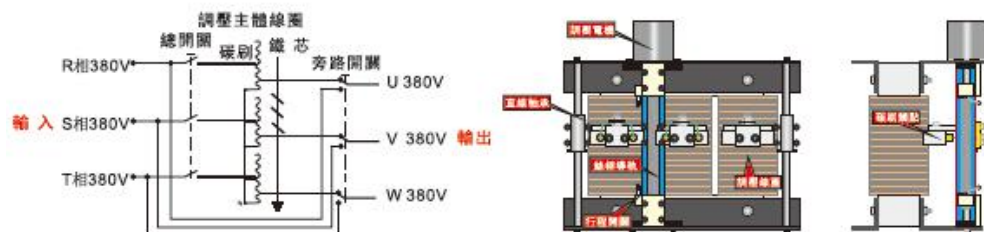
⑦ Common zero line terminal

⑧ Three-phase stable voltage output terminal (connected to the load line)

III. Technical Parameters 10/15/20/30/45/60/75/80/100/125/150KVA

Model	KBTW series	KBTWT series
Capacity	10/15/20/30/40/50/60/80/100/125/150KVA	
Input Scope	330-437V(380V±15%)	
Output Precision	380V±1-5% adjustable	200/220V±1-5% adjustable
Working Frequency	50/60HZ	
Use Efficiency	≥98%	
Overload Capacity	200% (10min)	
Response Time	4-10ms (can be set on the panel)	
Waveform Distortion	Sine waves are not distorted	
Pressure Regulation Mode	Three-phase regulation	
Voltage stabilization function	Manual voltage regulation, automatic voltage stabilization	
Protection Function	The whole series has standard overload, overvoltage, undervoltage and under-phase alarm trip protection	
Bypass Function	The whole series has a manual bypass function	
Machine Noise	Full load ≤ 45DB (1 meter away from the machine)	
Insulation Voltage	Coil to conductor	
Insulation Resistance	Coil to ground	
Creepage	> 8mm	
Shock Resistance Coefficient	0.3G	
Working Environment	Temperature -10- + 60°C Humidity 0-90% (non-condensed)	
Cooling Mode	Fan forced cooling	
Executive Standard	JB/T8749.8-2014	

IV. Working Principle Diagram of Voltage Stabilizer



V. Wiring Installation Instructions

The use environment of the voltage stabilizer and the wiring standards have a direct impact on the normal function, service life and safety of the voltage stabilizer, so be sure to install and wire as required.

1. Use environment

- ◆ Ambient temperature: -10- + 60°C
- ◆ Prevent rain or wet environment
- ◆ Prevent oil mist and chemical erosion
- ◆ Avoid installing on a vibrating base (e.g., on a vehicle)
- ◆ If the voltage stabilizer is installed inside a machine or a distribution box, you must pay attention to heat dissipation, or even install a fan to facilitate heat dissipation.
- ◆ Do not place debris on the top of the voltage stabilizer
- ◆ Installation space must meet the following requirements
- ◆ Place the voltage stabilizer at a well ventilated place with the air inlet ventilated at least about 1 m from the wall in the back.



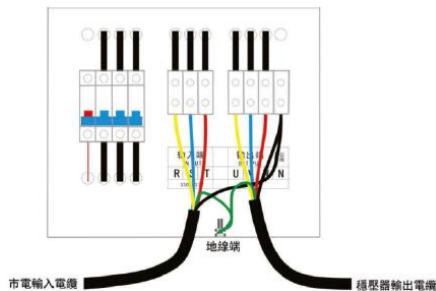
2. Wiring notes

- ◆ Voltage stabilizer wires have different installation standards due to different size and voltage. Please select appropriate wire diameter according to your voltage stabilizer specifications. Please buy cables that meet the electrical specifications.
- ◆ Avoid sharing the same switch by the input end of the voltage stabilizer and other devices, and wire as close as possible to the mains supply.
- ◆ Regardless of wiring of voltage stabilizers of single or three-phase systems, pay attention to the correct connection of the power polarity and the standard color.
- ◆ Pay special attention to the phase sequence wiring problem of the output in three-phase system voltage stabilizers.
- ◆ Please check that the switch is off before wiring, forbid live working to ensure safety/
- ◆ Please follow the Electrician Regulations when installing wires.
- ◆ The voltage stabilizer has an obvious wiring mark under the terminal, clearly indicating the wiring coils.
- ◆ The input power line of the three-phase system voltage stabilizer is connected to one side (left side) of the input terminal, the output line of the voltage stabilizer is connected to one side (right side) of the output terminal, the neutral line (N) and the ground wire are marked. The voltage stabilizer can be operated without the zero line, and can share one terminal with the load if the load needs the zero line.

3. Three-phase current wiring meter

Voltage	200V/200V		380V		415V	
	Current	Wire	Current	Wire	Current	Wire
5 KVA	14A/13A	4 mm ²	7.5A	2.5 mm ²	7A	1.5 mm ²
10 KVA	28A/26A	6 mm ²	15A	4 mm ²	14A	2.5 mm ²
15 KVA	43A/39A	10 mm ²	23A	6 mm ²	20A	4 mm ²
20 KVA	58A/52A	16 mm ²	30A	10 mm ²	26A	6 mm ²
30 KVA	87A/79A	25 mm ²	45A	10 mm ²	39A	10 mm ²
40 KVA	129A/118A	35 mm ²	68A	16 mm ²	59A	16 mm ²
50 KVA	144A/131A	35 mm ²	76A	16 mm ²	70A	16 mm ²
60 KVA	173A/157A	50 mm ²	91A	25 mm ²	79A	25 mm ²
80 KVA	216A/197A	70 mm ²	114A	35 mm ²	105A	35 mm ²
100 KVA	289A/262A	95 mm ²	152A	50 mm ²	132A	50 mm ²
125 KVA	360A/328A	120 mm ²	182A	50 mm ²	166A	50 mm ²
150 KVA	433A/393A	150 mm ²	227A	70 mm ²	208A	70 mm ²
200 KVA	577A/524A	185 mm ²	303A	95 mm ²	278A	95 mm ²
250 KVA	721A/656A	240 mm ²	380A	120 mm ²	347A	120 mm ²

4. Installation instructions



- ◆ Prepare the cable with the corresponding load current squared.
- ◆ Connect the external mains input terminal on the user wall to the R, S, T phase (the national standard color is yellow, blue, red) of the voltage stabilizer.
- ◆ Connect the user equipment to the U, V, W phase (the national standard color is yellow, blue, red) at the output terminal of the voltage stabilizer.
- ◆ Connect the zero lines of the input and output to the spare terminal N (the national standard color is black).
- ◆ Connect the ground wires of the input and output to the ground wire mark (the national standard color is green and yellow cross) of the voltage stabilizer.

VI. Attentions

1. General safety attentions
 - ◆ Please read this manual carefully before use.
 - ◆ Non-professionals must not operate this machine.
 - ◆ Please use this machine according to the user's local area, national regulations or international regulations.
 - ◆ Please check the rated capacity of this machine and do not overload.
 - ◆ If you do not understand the installation, debug and operation, please contact our customer service center [400-6480-668](tel:400-6480-668)
2. Product check

Each voltage stabilizer of our company undergoes various functional tests before leaving the factory. After the customer unpacks the voltage stabilizer after delivery, please perform the following check steps.

 - ◆ Confirm whether the appearance and the interior of the voltage stabilizer are damaged or deformed due to inadvertent transport before receipt. If it occurs, please contact the logistics or our company.
 - ◆ Confirm whether the model, voltage, specification and capacity of the voltage stabilizer match the product you ordered according to the sales contract.
 - ◆ Please check the product with the product nameplate diagram behind the machine.
3. Special attentions
 - ◆ The voltage stabilizer must be installed in a dry and ventilated room without chemical deposits, dirt, harmful erosive media or flammable and explosive gas (children cannot touch) to avoid sun and rain.
 - ◆ The ground terminal must be safe and reliable to ensure the safety of life.
 - ◆ The voltage stabilizer will emit a little heat during normal operation, so forbid to cover it with articles to affect normal heat dissipation and cause damage.
 - ◆ The external voltage fluctuation will cause the voltage stabilizer to automatically regulate the voltage, so the friction sound of the servo motor drive screw and the carbon brush is normal.
 - ◆ Select reasonable cross-sectional area of the input and output wires according to the power of the voltage stabilizer, reduce the power loss in the line as much as possible, generally, the power loss of the copper conductors is calculated by $4A/mm^2$, and the power loss of the aluminum wires is halved.
 - ◆ The ground wire and the zero line must not be reversed or replace each other, otherwise, the machine will be charged or the load is affected.
 - ◆ The voltage stabilizer must be wired according to the international standards of 3 phases and 5 wires. The three-phase live wire, zero line and ground wire are not omitted. Otherwise, the voltage stabilizer will be charged or the load is burnt out.
 - ◆ When the voltage stabilizer is turned on, forbid to open the chassis and touch and adjust the electronic components at will, so as to avoid the risk of electric shock and machine damage.
 - ◆ When the frequency of the power generation grid is unstable, if emergency power is required, please use the bypass to convert the mains for direct output to avoid damaging the voltage stabilizer due to unstable frequency.
 - ◆ If the voltage stabilizer is used in poor environment or serves more than 3 years, professional (electrician) is required to regularly remove the dust inside the machine, or contact our company's after-sales personnel for on-site maintenance to keep the carbon brush and the coil grinding surface clean. If the carbon brush is seriously worn, please replace it when it is urgent, otherwise it will cause damage of the voltage stabilizer.
 - ◆ If the voltage stabilizer is found to have excessive noise, abnormal alarm on the panel or automatic trip protection during use, the power should be cut off immediately. Contact our customer service center [400-6480-668](tel:400-6480-668).
 - ◆ Our company is not responsible for the safety and quality issues that may occur if non-professional technicians perform disassembly and maintenance.

VII. Safe Use Method

1. Preparation before starting up (first start)

◆ Check the grid voltage before use to ensure that it is within the input range of the machine, and then connect wires according to the wiring marks on the front and rear panels of the voltage stabilizer. Do not connect the wires mistakenly, and the grounding should be reliable.

◆ Make sure that the input power main switch of the voltage stabilizer host is at "OFF";

◆ Make sure that all terminal blocks of the voltage stabilizer are well wired and there is no looseness.

◆ Use a universal meter to check if the input power system meets the requirements of the voltage stabilizer:

◆ The power input of the three-phase voltage stabilizer is 3-phase 4-wire (three-phase live wire, ground wire)

◆ Input voltage range 330-437V

◆ Is the number of power phase lines correct?

◆ Is the grounding normal?

2. Startup

◆ After the preparation is ready, first place the input power switch at "ON".

◆ Turn on the power main switch of the voltage stabilizer and check the original state of the panel.

When the green LED light is on long in the automatic voltage stabilization mode, the output voltage is 380V, and the startup is successful.

◆ When the load is an inductive load (such as air conditioner, refrigerator, air compressor), the inductive load starting current is particularly high, so the selected output capacity of the voltage stabilizer should be 3-5 times the load power. Sufficient margins must be maintained for other capacitive and impact load voltage stabilizers.

◆ When the power grid fails, e.g., the three-phase voltage is more than 437 V, the voltage is less than 330 V and the input is under phase, the voltage stabilizer will automatically trip the protection device and the load within 40 seconds of alarm. In this case, please use the bypass to convert the mains supply, and turn "stable voltage" of the bypass switch to "mains supply".

3. Shutdown

After all the intelligent load devices are shut down normally, directly put the power main switch of the voltage stabilizer at "OFF" position. Generally, the voltage stabilizer does not need to be switched on and off every day, because KBTW is an energy-saving and environment-friendly product.

VIII. Polarity Identification of Three-Phase Electricity

1. Live wire: wire-to-wire 190V, 220V, 208V, 220V, 230V, 380V, 440V, 480V and other voltage values, this is a three-phase three-wire or three-phase four-wire system.

2. Neutral line: also known as a zero line, the voltage of the live wire can be 110V, 115V, 120V, 127V, 132V, 220V, 254V, 277V, etc, and the voltage of the ground wire is about 0.5V or 2.0V.

3. Ground wire: grounding rod or distribution box grounding point.

4. Live wire marking method: a single-phase system is marked with L, LI, L2; a three-phase system input is marked with R, S, T, and the output is marked with U, V, W.

5. Neutral line marking: (zero line) single-phase and three-phase systems are marked with "N".

6. Ground wire marking: mark with "G" or "E", or "?".

IX. Specifications

	Model	Capacity	Power	Input voltage,		Output voltage,		Dimensions	Net
		KVA	KW	V	A	V	A	(L deep • W wide • H	(Kg)
Voltage stabilizer	KBTW-10	10	8	380V	15	380V	15	500*320*520	45
	KBTW-15	15	12		23		23	500*320*520	50
	KBTW-20	20	16		30		30	580*350*580	65
	KBTW-30	30	24		45		45	580*350*580	70
	KBTW-40	40	36		68		68	650*400*680	100
	KBTW-50	50	40		76		76	650*400*680	100
	KBTW-60	60	48		91		91	650*400*680	120
	KBTW-80	80	60		113		113	850*500*800	150
	KBTW-100	100	80		152		152	850*500*800	165
	KBTW-125	125	100		189		189	850*500*800	180
	KBTW-150	150	120		227		227	900*530*900	200
	Stabilizing transformer	KBTWT-5	5		4		380V	7.5	200V
KBTWT-10		10	8	15	28	580*350*580		70	
KBTWT-20		15	12	23	43	580*350*581		100	
KBTWT-30		20	16	30	58	580*350*582		120	
KBTWT-30		30	24	45	87	650*400*680		150	
KBTWT-50		50	36	68	129	650*400*681		180	
KBTWT-60		60	48	91	173	850*500*800		220	
KBTWT-80		80	60	113	216	850*580*1200		320	
KBTWT-100		100	80	152	289	850*580*1201		360	
KBTWT-125		125	100	189	360	850*580*1202		400	
KBTWT-150		150	120	227	433	900*630*1350		450	

(Our company's products are constantly being researched and improved, and the specifications if changed are not further noticed. The above parameters are for reference only, please refer to the actual product.)

X. Fault Condition and Elimination

1. Conventional failure of voltage stabilizer

◆ Cannot be turned on: Check if the switch on the user's wall is turned on, and then check if the main power switch of the voltage stabilizer is at "No".

◆ No display on the panel: If the voltage stabilizer is in the power-on state, the panel control circuit may be loose. Please check the circuit. If it still cannot be displayed, please call our company's after-sales service hotline.

◆ The voltage stabilizer has no stable voltage: Please check the status of the LED light on the system panel. Normally, it is the automatic voltage stabilization mode, the LED light in the automatic mode is always on, and the output voltage should be displayed as 380V. If not, please restore to the automatic mode. If the buck-boost LED light in the automatic mode is always on and the output of the voltage stabilizer is not 380V, the circuit board and the voltage stabilizer drive structure may have mechanical failure.

2. Automatic tripping failure - main power switch after 40 seconds of startup (product functional status)

◆ Overload: Check the display result of the LED light in the abnormality alarm area of the display panel after startup. If the LED light is on in the presence of overload abnormality, please check whether the power of the voltage stabilizer matches the load device. If not matching, please re-purchase.

◆ The external input voltage is too high or too low: Check the display result of the LED light in the abnormality alarm area of the display panel after startup. If the LED light is on in the presence of too high voltage and too low voltage, please check whether the external input voltage is 330-437V. If the mains input voltage exceeds the voltage range, please turn off the power after the mains failure is eliminated.

◆ Reasons for mains supply under phase: Check the display result of the LED light in the abnormality alarm area of the display panel after startup. If the LED light is on in the presence of under-phase abnormality, check whether the three-phase power at the input terminal of the voltage stabilizer has phase loss. If the voltage stabilizer loses 1 to 2 phases, the system will be automatically shut down for protection. Restart after the failure is eliminated.

3. Sudden interruption of output voltage

◆ Overload: The voltage stabilizer suddenly trips after the load device is started, or automatically quickly trips several times after several times of startup, indicating that the load exceeds the capacity switch protection of the voltage stabilizer.

◆ Electric leakage and short circuit: Please check the switch trip protection caused by short circuit in the electrical circuit part of the load device; first turn off the load device switch by the exclusion method to test the working state of the independent voltage stabilizer. When the voltage stabilizer is unloaded and does not trip, it indicates that the user's load device fails.

XI. Preventive Measures and Regular Maintenance

This voltage stabilizer does not require daily maintenance and check, but regular maintenance and check can prolong the service life of the voltage stabilizer.

1. Preventive measures

◆ Do not place any liquid objects on or near the voltage stabilizer to avoid power damage when they are accidentally poured and splash into the voltage stabilizer through the heat dissipation holes.

◆ If the voltage stabilizer is placed (used) in the extremely harsh environment, such as heavy dust, moisture and oil mist inside the factory workshop, please try to improve the working environment of the voltage stabilizer, and increase the maintenance frequency of the voltage stabilizer, better once every six months.

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2. Regular maintenance

It is a very important task to regularly check, clean and maintain this machine so as to prolong the service life of the machine. The number of cleaning shall be determined according to the environmental condition.

The simple steps are as follows:

◆ First turn off the power of the load device, and then turn off all switches of the input power source of the voltage stabilizer.

◆ Use a vacuum cleaner or an industrial air gun to remove surface and internal dust, and then wipe the surface of the chassis and key parts with soft cloth and a special grease detergent.

◆ Visually check whether the contacts of all input and output cable lines are loose, control the connection status of the circuit to be good, and check whether the internal components are damp, oxidized, deformed at high temperature, damaged by rats, etc. If found, please replace with the same specification.

◆ Check the thickness of the carbon brush and the degree of aging of the coil. If found, please repair and replace immediately.

◆ Test the electrical working state of the voltage stabilizer while power on, check the precision of the output voltage, and test the working state of the circuit drive mechanism of the voltage stabilizer with the manual horizontal buck-boost function. If abnormality is found, please check and repair.

Maintenance Record

Date: ___ <i>MMM</i> ___ <i>DDD</i> ___ <i>YYY</i>		Maintenance person
Maintenance items: Model <input type="checkbox"/> Internal maintenance <input type="checkbox"/> External maintenance <input type="checkbox"/> Free <input type="checkbox"/> Charge Main case <input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/> Quantity System panel <input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/> Quantity Control circuit board <input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/> Quantity Servo motor <input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/> Quantity Drive screw <input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/> Quantity Voltage regulating coil <input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/> Quantity Output Precision <input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/> Quantity		Fault maintenance reason description
Date: ___ <i>MMM</i> ___ <i>DDD</i> ___ <i>YYY</i>		Maintenance person
Maintenance items: Model <input type="checkbox"/> Internal maintenance <input type="checkbox"/> External maintenance <input type="checkbox"/> Free <input type="checkbox"/> Charge Main case <input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/> Quantity System panel <input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/> Quantity Control circuit board <input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/> Quantity Servo motor <input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/> Quantity Drive screw <input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/> Quantity Voltage regulating coil <input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/> Quantity Output Precision <input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/> Quantity		Fault maintenance reason description



Do not carry out maintenance while the machine is powered on.

Note

Product Qualification Warranty Card

Customer Name		Date of purchase:	___ <i>MMM</i> ___ <i>DDD</i> ___ <i>YYY</i>
Customer Address		Model	
Tel:		Machine No.	
Principal		Warranty Period	___ month

Dear customers:

Thank you very much for choosing our company's stabilized voltage supply products. In order to make you more satisfied with the quality and service of our company's products, please take good care of the warranty card to perfect our company's after-sales services, and hope you give valuable comments and suggestions.

1. This warranty card is free of charge for repair and maintenance from the date of purchase according to the warranty period of the contract.
2. Fault consultation and after-sales hotline: 400-6480-668
3. The following machine failure reasons do not enjoy free repair service
 - ◆ Users do not present the contract and the warranty card.
 - ◆ Damage and tear labels.
 - ◆ Damages occur under abnormal use, e.g., manual damage, non-professional disassembly and relocation.
 - ◆ Overload use and burnout caused by connection to the load device that does not match the capacity of the voltage stabilizer.
 - ◆ Self-refit or non-professional voltage regulation.
 - ◆ Irresistible natural disasters (e.g., floods, fires, earthquakes, etc.).



Statement

As our company's power products and technologies are constantly updated and improved, the contents of the data may not be completely consistent with the actual products, please understand. If you have any questions, please call our company, thank you!

We hope the majority of users give valuable comments or suggestions on our company's product designs, functions, performances, qualities, logos, packages, services, etc. KING BAO will be grateful.