

20KVA Two Phase Non-contact Voltage Stabilizer Specifications

1. Working Environments

Usage: indoor, vibration-free & jolt, stabilizer no serious affection from insulation gas, steam, chemical deposition, dust, dirt and other bombings and corrosive medium.

Working Voltage: 208V/120V±20%, 50/60HZ

Working Environment Temperature: -15°C ~+45°C

Altitude: ≤1000m

Relative Humidity : ≤90%

2. Characteristics

❖ LCD Large-screen

Using large-screen LCD display, can shows dynamic display voltage, current, and all kinds of working condition

Product Characteristics

The speed of response time(regulating speed) can be fast to 40ms, non-contact, anti-interference, no mec hanical failure and wear of carbon brush, maintenance-free. Two-phase voltage regulating independently to ensure the balance of output voltage. Effectively protect the security of the precision equipment.

* Precision (output accuracy) Can Be Adjusted

All precision of the stabilizer is preset plus or minus 1%. According to different load demand can be ad justed plus or minus 1%, plus or minus 3%, plus or minus 5%.

* Manual Voltage Regulation

According to production requirement, within the scope of the 10% rated voltage value, the stabilizer can set voltage arbitrarily for different electrical equipment.

* Automatic Bypass Function

Equipped with automatic bypass function, when the stabilizer fails, it can turn into the mains automatically, no affection for the production.

❖ Output High and Low Voltage Protection Function

When monitoring circuit detect the output voltage beyond the upper or lower limit, voltage stabilizer can turn into the mains automatically, no affection for the production.





❖ Lack of Phase/Phase Fault Protection Function

When monitoring circuit detected phase failure, voltage regulator /stabilizer will cut off the output autom atically and voice alarm.

❖ Delay Stabilizing Output Voltage Function

Voltage Stabilizer boot or recover from a state of protection, would not be regulated immediately. But st ay on only after users determine that the mains voltage are normal to ensure that the load equipment w ould not be damaged.

Automatic Output Function

System preset is automatic output. When stabilizer connect to the mains, system detect that the power gr id is normal, then it would delay 30 seconds, stabilizing output voltage automatically.

❖ Modular Design, Easy to Replace and Repair

Adopting modular design, regulating circuit and monitoring circuits independent to each other, all components are standard normalization. Assembly, debugging, maintenance are more simple and quick.

Strong Load/Carrying Capacity

When the short-time overload or short-circuit, the transformer would not be damaged to avoid coil burning fire. When overload 150%, stabilizer can withstand 90 seconds, 20 seconds for overload 200%.

3. Main Technical Index

	Rated Voltage	Phase Voltage AC 120V, Line Voltage AC 208V	
INPUT	Stabilized Voltage Ra	2P3W+G 166V-249V	
	Frequency	50HZ/60HZ	
OUTPUT	Rated Voltage	Phase Voltage AC120V, Line Voltage AC 208V	
	Center Voltage	±7%(can be adjusted)	
	Output Accuracy	±1%	
	Response Time	≤5ms	
	Stabilization Time	≤40ms/Step	
	Waveform Distortion	Do not produce additional waveform distortion (Static)	
	Efficiency	≥99%	
	Three-phase Unbalance Factor	Two-phase voltage balance automatically, incrementation \(\)2%	
PROTECTION	Over-voltage	The output phase voltage is higher than 10% (132V), cut off the out put.	
	Under-voltage	The output phase voltage is lower than 10% (108V), cut off the output.	
	Phase Loss	Yes, uninterrupted to bypass	
	Overload	Electric detection, overload 1 minute, the output would be cut off.	





Over-current Short Circuit		Electronic detection and circuit breaker dual protection.	
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	Bypass	Manual bypass and automatic bypass.	
INSTRUCTION	Voltage	A, B, ∑AB Two-phase shows respectively true and effective values	
	Current	A、B、∑AB Two-phase shows respectively true and effective values	
	Working State	AVR/Bypass	
	Abnormal	Over-voltage, under-voltage, over-load, fuse blowing	
CONTROL MODE		DSP operate metering chip intelligent control technology	
WORKING MODE		With automatic voltage regulation and the bypass, two working mode.	
VOLTAGE REGULATION MODE		Three-phase adjust voltage separately	
OVERLOAD CAPACITY		3 times the rated current, 1 second, can be adapted to the resistive, i nductive, capacitive and impact load; can withstand the instantaneous overload impact. Stabilizer continuously output the rated current. Wh en temperature rise stably, overload 10% for 30 minutes is allowed. Short-term (5 minutes) overload current (1.6 times rated value) is al so allowed.	

4.Main Material List

Material Name		Manufacturer	Introductions
ENCLOSURE		WADKIN	Adopt 2.0 Thick Cold-Roll Steel Sheets.Surface treatment:G139→Phosphating+PZ660 powder+powder coating (RAL7032) plastic spraying;
DISPLAY		WADKN	Adopt STH wide angle LCD display, reading clearly; steroscopical and direct.
MAIN BOARD	CONTROL PCB	WADKIN	Develop PCB independently, stable circuitry;The main components adopt imported brand, like "Infineon", "ST", "Fairchild", "Toshiba",etc.
	DRIVER PCB	WADKIN	
SING PHASE COMPENSATING TRANSFORER		WADKIN	Through secondary vacuum dipping, and continuously bake for 10 hours under the high temperature of 130 . Transformer insulation class F, heat resistance 155 . All the withstanding voltage are 3500V/5mA/min;
THREE-PHASE REGULATING TRANSFORMER		WADKIN	





SCR	Efficiency Through Technology	"SEMIKRON" or "IXYS" import from Germany authenticity
DIODE	Efficiency Through Technology	"SEMIKRON" or "IXYS" import from Germany authen ticity
FUSE	MiRO	Adopting domestic fuse, the first brand "Ming Ro ng"company's high quality products
INPUT SWITCH	CHINT GROUP	The most famous brands in China with the top quantiy. Their Switches are doing much testing.
CONTACTOR	CHNT 正泰集团 CHINT GROUP	The most famous brands in China with the top quantiy.
SWITCHING POWER SUPPLY	MING WETT	"MING WETT" from Taiwan. Global switching power supply professional supplier
SHUNT RESISTENCE	VILVA Electronics Inc	Industrial-grade resistance stable and durable

5. Technology and Special Requirements

- 1. With output manual bypass switch;
- 2. Enclosure material:Baosteel (or Wuhan Iron and Steel Group Corp) 2mm thick cold-roll steel sheets;
- 3. Surface Treatment: G139→Phosphating+PZ660 powder+powder coating (RAL7032);
- 4.Products manufacture in accordance with the law of the People's Republic of China industry standard "Non-contact Compensating AC Stabilizer" 《YD/T1270-2003》, also accord with 《SBW/IMT01-92 Automatic Compensating AC Stabilizer Standards》, 《JB/T7620-94》 Compensating AC Stabilizer Targets.

6. Technical Documents

Provide the complete technical file about the equipment:

A.1pcs The whole machine quality certification.

B.1pcs Product test report

C.1pcs User Manual





7. Quality Assurance and After-sales Service

1) Equipment warranty period is $\underline{1}$ year from the date of delivery;

- 2) During the warrantly period, supplier offer technical support for free; When get the notice of the failure by the Party A, Party B should implement the warranty obligations; Reponse within 8 hours and the solution should be given without 24 hours to reduce the losses of Party A. If maintenance need other spare parts, Party B assist purchasing, installation and debugging, within 48 hours solve the problem.
- 3) After the warrantly period, the supplier provide user with timely, high-quality, favorable technical ser vice and supply spare parts.

8. Non-contact Voltage Stabilizer Large-sreen LCD Display



9.Pictures for 20KVA Non-contact/SCR Voltage Stabilizer





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