



**Manual Usuario**

**ESTABILIZADORES DE  
VOLTAJE**

# Table of contents

1.Profile .....	1
2.Features .....	2
3.Working principle .....	2
4.Key specification .....	3
5.Operation introduction.....	4
6.Caution .....	6

Thank you for using AVR, please read the manual before operating. It contains instructions concerning safety you to get enough using-life and serve.

### **1. Profile**

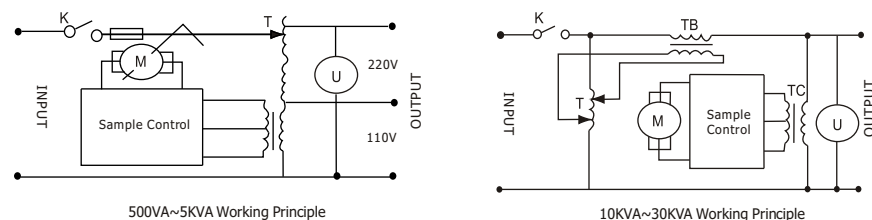
Is fully automatic A.C voltage stabilizer consists of contact voltage regulator, sampling control circuit and servo motor when input voltage or load changes, sampling control circuit will sample and amplify the voltage, and the servo motor will rotate in the desired direction, which turns the arm, adjusting voltage until the output voltage is regulated into the rated output voltage.

It is of small size, lightweight, less output waveform distortion and reliable performance. To guarantee its quality, foreign advanced technology and main parts are introduced and imported. It is widely used in electrical appliances which need constant voltage power supply, and in the fields of industry producing, scientific research and medical hygiene.

### **2. Features**

- 1) High quality output voltage: the voltage stabilizer can work without interruption with balanced voltage regulating process and no temporary beta topic phenomena, high accurate output voltage with  $220V \pm 3\%$ .
- 2) Wide input voltage range and load compatibility characteristics.
- 3) Over voltage, under voltage and over current protection: It considerably guarantees the machine safety and effectively protects electric terminals.
- 4) Long working life: the employed high-breaking circuit breaker can reliably protect overload and short circuit, the new developed and high performance carbon brush, which name C1017, considerably prolongs the voltage stabilizer working life.
- 5) Display window: it can display over voltage, under voltage and over current statue, so that the user expediently use the AVR.

### **3. Working principle**



**4. Key specification**

	Single phase	Three phase
Input voltage	160V-250V	277V-433V
Output voltage	220V/230V ± 3%	
Frequency	50/60Hz	
Ratings	500VA 1KVA 2KVA 3KVA 5KVA 10KVA 15KVA 25KVA 30KVA	3KVA 6KVA 10KVA 15KVA 20KVA 30KVA 50KVA 60KVA
Over voltage protect	250V ± 5V	
Lack voltage protect	183V ± 5V	
Resistance	>2M Ω	
Voltage	1500VAC 1 minute	
Response time	±10% change <1S	
Environment	humidity=95%, -10°C ~ +45°C no shake, dust, causticity, combustibility, blast gas, airiness well	
Wave distortion	No wave distortion	

**5. Operation introduction**

1) Please select these series products according to the fact rating of the electronic equipment and put wide. As sample air-condition, ice box, ice tank., it should be accounted by standard rating 1.5-2 double, others by standard rating 1.2-1.5 double, select the stabilizer according the account result and put wide. If the voltage in that area is not stabilization, you should select wide rating.

2) This series product doesn't overrun rating 40% with 110V load and don't overrun rating 50% with 110V and 220V load.

3) Select right connector insert power back, put through power and turn on switch sign “ON” , then show lamp shine, display 220V, now put through load.

4) Put through power, turn voltage change switch, test A, B, C three-phase voltage is normal or not. Then can use it.

5) There is an overtime function. It not only can't bring instant high voltage, but also protect lack voltage.

6) Three-phase power has lack phase, over and lack voltage protection function. It will shut off when any one of that three kinds happened.

7) When it is in protection, the protection display lamp is on. When the trouble lost, auto output. When it is always protection, please check input is normal and lack phase. If the input voltage is normal so this machine is trouble. Should to repair.

8) There is light between Brush and booster. Please use 0 number sand papers abrade booster face. Then put sand paper in the brush and booster, sand paper side face to brush, turn bracket of bush, so rubdown brush face, after that clear up light.(operator in turn off power)

9) If power net is trouble, please shut off stabilizer power and switch in time.

Should make output capacity accordant output capacity curve, when three-phase stabilizer 220V.380V both use, the every load total can not over the every rating.

## **6. Caution**

1) Build in dryness and airiness (not suitable toilet and kitchen), not block up cool hole, and avoid water and the others entering into.

2) Level put, don't lean and headstand.

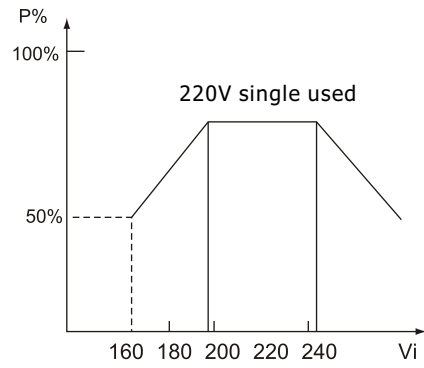
3) The machine output capacity curve following, please accordant the following curve.

4) Clear dust, protect loop brush. After long time working adjusts press both brush and loop to avoid light.

5) Input ground is reliable.

6) Installation. Connection. Adjusting must be done by professional personnel.

7) Don't use plastic lid to cover power.



Over capability	<Time (min)
20%	60
40%	30
60%	4