



AC AUTOMATIC VOLTAGE REGULATOR

TMB Series | TMH Series

AC AUTOMATIC VOLTAGE REGULATOR

Instruction Manual

1. Summary

TMB series voltage stabilizer got great progress in recent years. Product sales network covers most cities and regions domestic and exported to many countries overseas. They are suitable for household appliance like air conditioners ,refrigerators,computers and communication, medical and lighting etc., where need a stable civil power.

To better exert the properties of the machine,please read the manual carefully before use .

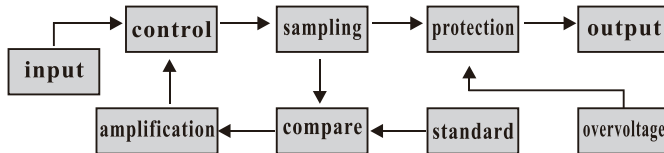
2. Working Principle

2.1. The machine is mainly composed of sampling , comparative ,amplifying control circuit which form a closed lopp control circuit .

2.2. When there's a change either input voltage or load ,the sampling circuit would initiate sampling process on output

voltage ,compare and amplify with the rated norm ,the output signal will be effectively adjusted to the set range.

2.3. The work principle block diagram as below :



3. Performance

3.1. TMBseries automatic voltage regulator are relay-type . It is an ideal stabilized power source for modern household purpose with low power consumption ,safe and reliable ,large range of stabilization.

3.2. This series has protection of overload ,over voltage .When it is overload or over voltage ,the machine will cut off outpower automatically.

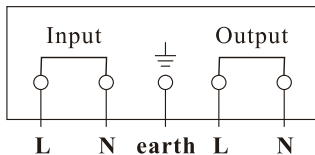
4. Technical Parameters

Model	Input	Output	Protection
TMB95 series	AC 95-280V	AC 220V \pm 10%	AC 246V \pm 4V
TMH95 series			

Performance	Parameter	Performance	Parameter
Nominal voltage value	220V/50HZ	Operation way	continuous
Temperature rise	<80K	safety index	(1)insulating resistance: normally more than 5M Ω (2)electricity strength: 1.5KV/mins no flashover breakdown
Ambient environment	-20 $^{\circ}$ C~50 $^{\circ}$ C, relative humidity<95%, elevation<4000m		

5. Installation Method

5.1. Please ask professionals to install the machine according to the diagram in the machine as follows:



5.2. When wiring the machine ,please pre-arrange sufficient cross-section for rated capacity.The cross-section of conducting wire is as follows:

Rated capacity	5000VA	10KVA	15KVA	20KVA
cross-section of conducting wire	$\geq 4\text{mm}^2$	$\geq 8\text{mm}^2$	$\geq 10\text{mm}^2$	$\geq 12\text{mm}^2$

5.3. No aluminum wire lest produce electric corrosion to damage the machine. Please use copper aluminum as transition link between the terminal and the machine .

5.4. The machine is equipped with grounding devices, which should be securely connected to earth . Check all the insulation wire connection is correct and whether wire joint is firm and reliable .

6. Using Direction

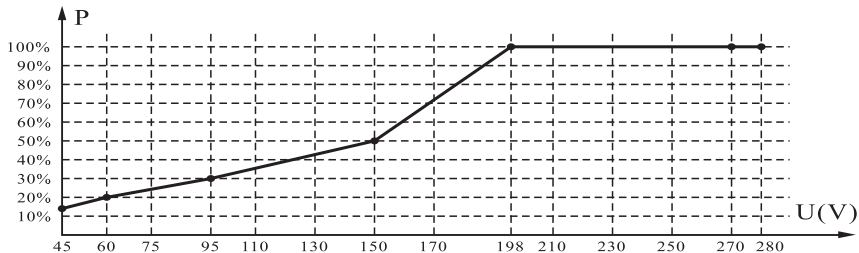
6.1. Please turn off the electricity appliance before turn on the power switch. Connect the electrical equipment from big power to small in turn after the output voltage stabilizer to normal .

6.2. According to the local power grid voltage , please choose work state between “STEADY” and “MAINS” . When mains voltage is normal , please choose “MAINS” in order to reduce power loss and prolong the life of machine .

6.3. “STEADY” and “MAINS” cant work at the same time .
When choose one state ,another one must be off.

6.4. The unit adopts fuse or automatic air switch as overload
and shortcirc uit protection .Please check up those devices
before operation .

6.5. The unit should not be used under the condition of
overload . When it is used in regions where low voltage exists ,
it should be noted that the effective used volume should be
decreased proportionally,the correlation of which is shown
below:



7. Notice

7.1. To prevent electric shock non-professionals should not open the shell.

7.2. Don't use the machine in corrosive air(e.g.oil fume, steam,etc).

7.3. During normal operating ,it will be heat normally .Be observant to avoid it mantled by any things so as to disturb heat-away .

7.4. When your loads are the electrical appliances such as fridge, freezer,air conditioning.,etc which need large current when start,the rated power must selected more abundant 3 times than your load .

7.5. The machine should not be used in merging connection.

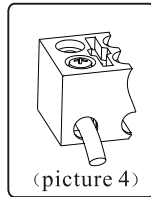
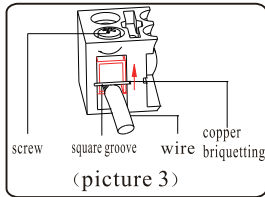
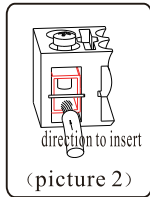
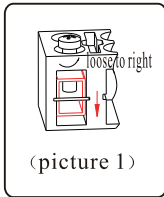
7.6. If the display doesn't work or the machine doesn't regulate again , should sent it to the agency or the company maintenance . Company is not responsible for the damages caused by any personal changes with the machine.

7.7. After use, turn off the power switch of electrical appliances first, then switch off the power in the stabilizer. Please don't use the switch of stabilizer as the master switch for all the electrical appliances.

8. Maintenance Instruction

Trouble Encountered	Possible Causes	Trouble-shooting
The screen does not work after turn on the power	1. Didn't Connect well ; Screen breaks down 2. No input	1. Check the connection line . 2. Replacement display screen
Indicate over voltage , no output indication	Over input voltage	Wait until supply voltage adjusted to the voltage scope
Indicate overload ,no output indication	Overload protection	Power off and reduce the load , wait about 20minutes
Air odor	1、 Airless 2、 Overload too much	1、 Make the air circulation 2、 Reduce load

Wiring method illustrated



Step 1. Unscrew the screw at counter clockwise until the square groove is completely put down .like picture 1

Step 2. Strip line wire about 1.5 cm and insert into a square groove under the briquetting (note: avoid the wire insert holster lest cause poor contact, or will cause spark and burn wire). Like picture 2

Step 3. Rotate the screw at clockwise and the square groove will move up at the same time . Until the cable head is compressed and not loose pull by hand . like picture 3

Step 4. Finish installation ,like picture 4.

USER INFORMATION

DEAR CUSTOMER: Thank you very much for purchasing our products. In the future, you will enjoy our one-year warranty service.

USER NAME	
CONTACT INFORMATION	
USER ADDRESS	
PRODUCT NUMBER	
MACHINE NUMBER	
DATE OF PURCHASE	

Warranty record

WARRANTY DATE	REPAIR DATE	MAINTENANCE STAFF

FAILURE AND TREATMENT



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