

Wide Range AVR

AVR-1008A AVR-2008A
AVR-3008A AVR-5008A

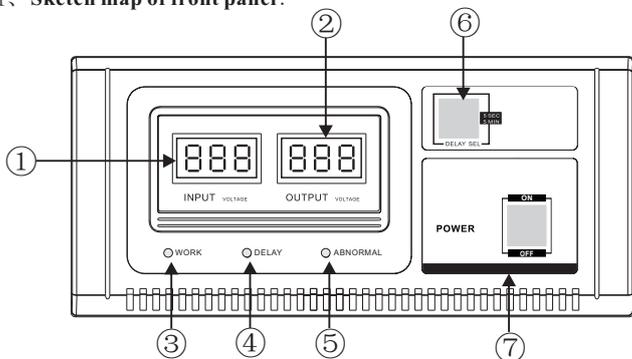
★ **.PREFACE**

Welcome to use AVR series extremely wide range AC Automatic Voltage Regulation, you will get high-performance products and complete after-sale service. Please read the user's manual carefully before using so that the AVR can work correctly.

AVR series extremely wide range AC AVR is made by U.S.A.'s technology, with high efficiency, esthetic appearance and advanced and reliable performance. The microcomputer digit is controlling single phase AC AVR, it insures stable AC output when voltage is over-high or over-low, transient spike pulse voltage and high-frequency noise signal of the power line are reduced to make sure product can work normally.

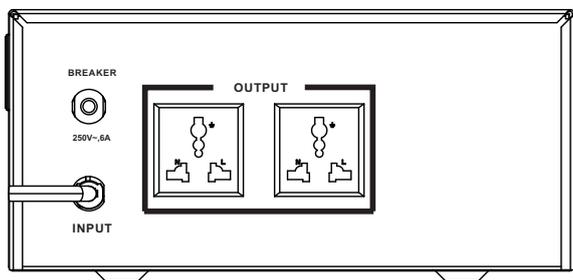
★ **. PRODUCTS SKETCH MAP**

1、 Sketch map of front panel:

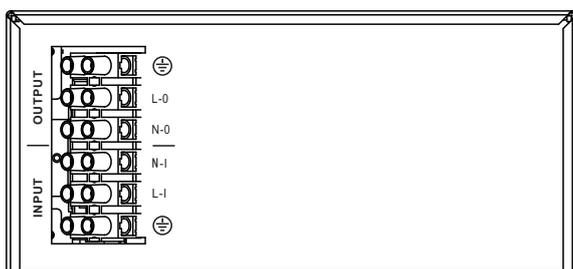


- ① Digital display of input voltage and function
- ② Digital Display of output voltage and the delaying time
- ③ LED shows the AVR is in the working mode.
- ④ LED shows the AVR is in DELAY status.
- ⑤ LED shows the AVR is abnormal.
- ⑥ Button for choosing delaying time, 5min or 5 sec is available.
(Suggestion: 5min delaying time should be choosed for air conditioner and refrigerator)
- ⑦ Power switch of AVR

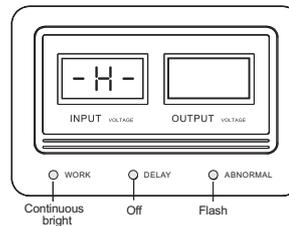
2、 Sketch map of rear panel:



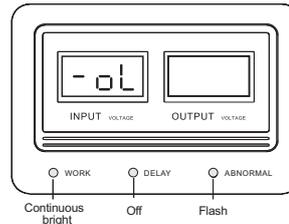
Model: AVR-1008A, AVR-2008A



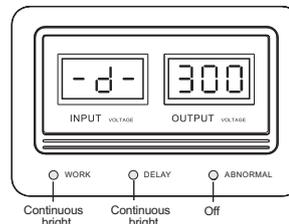
Model: AVR-3008A, AVR-5008A



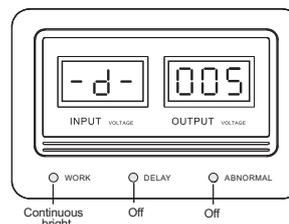
The input voltage is higher than 280V, the AVR stops the output for protecting the load.



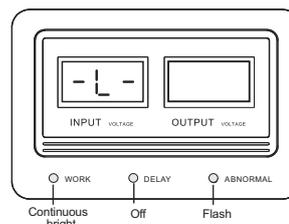
The AVR is over load, it will stops the output with the alarm for self-protection.



The AVR is in 5 minutes DELAY



The AVR is in 5 seconds DELAY. (Default mode)



The input voltage is lower than 140V, the AVR will not stop the output.

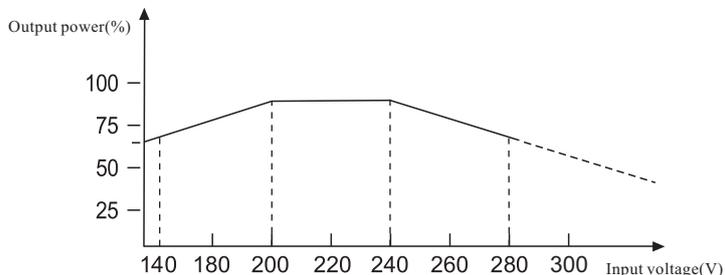
★ **. SPECIFICATION**

Model	AVR-1008A	AVR-2008A	AVR-3008A	AVR-5008A
Capacity	1000W	2000W	3000W	5000W
Input voltage	140-280V ~			
Frequency	50Hz/60Hz			
Output voltage	220±10% (if input range: 140-270V)			
Protection	High voltage/ Low voltage/ Over load/ Over temperature/ Short circuit			
Net weight (kg)	4.5	6	10	13
Dimension W*D*H(mm)	215×255×120		315×255×120	
Environment of performance	Temperature 0~40°C , Humidity 20~90% Non-Condensing			
Remark:	The specifications of the product are subject to change without prior notice.			

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★. LOAD CHARACTERISTIC DIAGRAM



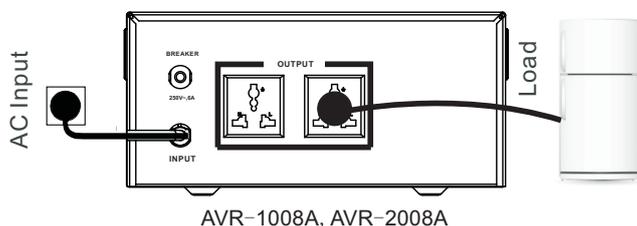
★. INSTALLATION

1. Please check if the AVR is damaged in transit. If it is damaged or less-component, please do not turn on the AVR and inform the dealer.

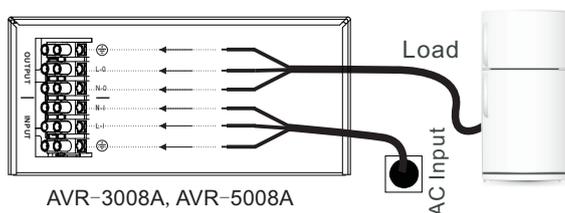
- Notice: ★ Please keep the packing materials for moving in the future;
- ★ The series of product are too heavy, please handle with care.

2. Notice for installing the AVR

- Connecting with a power cable: please use the suitable socket with the over current protection. Do not put all the load on the same socket and notice the capacity of the socket. Please check the connecting details as below.



- Connecting with the terminal blocks: notice the capacity and its specification of the cable. For 3000VA AVR, the cable should be bigger than 4.0mm². For 5000VA AVR, the cable should be bigger than 6.0mm². Please check the connecting details as below.



- After the installation, please make sure the cables are fixed well.

SIMTEK POWER SERVICES
Phase 2 (ext) DHA, Karachi.
021-35386004
021-35394140
0322-2572227
0332-2572227
0345-2215071

★. HOW TO USE

1. Please plug the input power cable to the output socket which it can supply the enough current.
2. Connecting load to the output socket which is on the rear panel of the AVR, please make sure the load is not over the rated Capacity.
3. Push "ON", the green LED continuous bright, the display shows "- □ -" and the rest DELAY time. The AVR is turning on under delaying mode and detecting AC power.
4. According to the load, choose the long delay or short delay. If the load as the refrigerator, please choose the long delay, otherwise choose the short delay. Long press the button "DELAY SEL" 3 seconds for switching the long or short delay, the yellow LED bright shows the long delay, the LED off shows the short delay.
5. DELAY is finished, the AVR supply the stable voltage for load.
6. When the voltage is over-high or over-low, the display shows the status with the RED LED flashes. When the input voltage is over-high, the AVR cut the output for protection. When the input voltage is over-low, AVR do not cut the output, some facilities still can work but maybe in abnormal, users should cut off some facilities which it is abnormal. When the AVR is over load, the display shows "- □ □" and with the buzzer alarm, users should cut off part of the load and make it smaller than the rated capacity, otherwise the AVR stop the output.
7. AVR has the temperature protection function, when the temperature is over the setting value, the AVR cut off the output and alarm with the buzzer. Users should cut part of the load and restart the AVR after the temperater is cooling.
8. Push "OFF" and cut off the AVR.
9. There will be a little noise when AVR is working.

★. ABNORMAL

Abnormal	Cause	Solution
AVR can't turn on	the input breaker is fail to work because of the AVR is over load	reset the breaker
	AVR gets wrong	Please send the AVR to the dealer for service
The buzzer alarm	The AVR is over load	Remove some loads
	AVR gets wrong	Please send the AVR to the dealer for service
The display shows the wrong indication	AVR gets wrong	Please send the AVR to the dealer for service

★. CAUTION

1. Please handle with care and put the AVR upward.
2. Never put the AVR in the place with strong vibrations.
3. Do not put the metal like iron wire, iron nail etc. to the heat elimination hole for avoiding short circuit. Do not put the goods near the heat elimination hole for keeping aeration.
4. Never expose the AVR to the direct sunlight or the rain, never install it in an excessively damp environment.
5. Away from the fire source, do not install the AVR in the high temperature environment.
6. Never install the AVR in the Corrosive Atmospheric Environment.
7. Never install the AVR near liquid.
8. Keep the AVR away from places where child can touch it.
9. The AVR will heat when it is working, it is a normal phenomenon. Do not cover the AVR for avoiding the fire disaster.
10. When the AVR is working, if there is abnormal like the peculiar smell or fire is found, please cut the power immediately and send it to the appointed place. No maintaining the machine for avoiding break out the electric shock.
11. Do not open the AVR panel when power is connected.

