User Manual

Automatic Voltage Regulator

500VA-3000VA

Version: 2.0

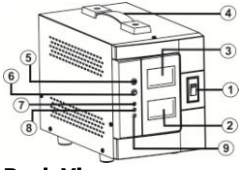
1. Introduction

This AVR series is designed to automatically maintain a constant voltage level to protect sensitive electronics from brownouts and overvoltages. Equipped with comprehensive information display, it's easy to monitor the power status.

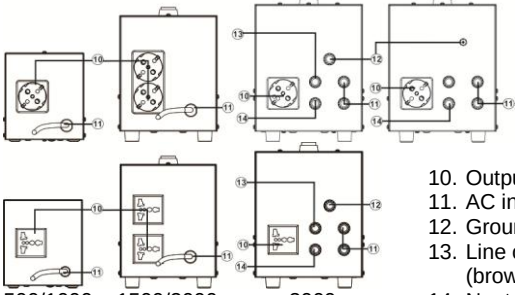
- Microprocessor control guarantees high reliability
- Selectable input voltage range
- Time delay function eliminates transients that can affect connected equipment.
- Startup countdown time display (only available for the unit with digital display)
- Over-voltage, under-voltage, over-heat and over current protection
- Provides surge and spike suppression

2. Product Overview

Side View



Back View



500/1000 1500/2000 3000

1. Power switch
2. Output voltage display/Startup countdown display (Only for Digital display)
3. Input voltage display
4. Handle (Optional for 500VA/1000VA)
5. Startup delay time switch
6. Input voltage range selector
7. Power LED (Green)
8. AVR LED (Yellow)
9. Over-voltage / under-voltage indicator (Red)
10. Output sockets
11. AC input
12. Grounding (black)
13. Line output terminal (brown)
14. Neutral output terminal (black)

3. Installation

Inspection

Remove the AVR from the shipping package and inspect the unit. Be sure that nothing inside the package is damaged.

Placement

Please install the AVR in a protected environment.

- Do NOT block the top or side air vents on the unit. Please reserve 20cm space to avoid interference.
- Do NOT operate the AVR where the temperature and humidity is outside the specific limits. (Please check the specs for the limitations.)

Connect To Utility

Plug the unit into a 3-wire grounded receptacle. If AC input is terminal type, please follow terminal markings to connect mains wires.

Connect Your Equipment

Plug equipment into the AVR rear-panel outlets. Then switch the unit on by press the front panel power switch to “RESET” position.

CAUTION: The total power consumption of all equipment plugged into the AVR must not exceed its capacity (Refer to spec). It may cause the breaker to fault (blow).

4. Operation

Setting Startup Delay Time Switch

Delay ▁▂: Setting delay time as 3 minutes. It’s designed to avoid damage devices with AC motor from consecutive starts. It’s perfect to use with devices such as refrigerators, freezers, air conditioners or dehumidifiers.

Undelay ▂: Setting delay time as 10 seconds. It’s designed for use with voltage sensitive equipment such as: personal computers, monitors, inkjet printers, scanners or faxes. It’s also designed for use with home appliances such as televisions, stereos, CD/DVD players, VCRs, modems, and telephone equipment.

Setting Input Voltage Range*

110~270V(110~280V) ▁▂ : Setting acceptable input voltage range within 110~270V (110~280V).

140~260V(150-270V)▂: Setting acceptable input voltage range within 140~260V(150~270V).

*Input range may be different based on different models. Please refer to printing marks on the unit.

Specification

Model	AVR 500	AVR 1000	AVR 1500	AVR 2000	AVR 3000
Capacity	500VA	1000VA	1500VA	2000VA	3000VA
Input					
Voltage	220 VAC or 230 VAC				
Voltage Range	110-270 VAC or 110-280 VAC (Wide input) 140-260 VAC or 150-270 VAC (Normal input)				
Frequency Range	50 Hz/60 Hz				
Output					
Output Voltage	220 VAC or 230 VAC				
Voltage Regulation	-10% ~ +10%				
Efficiency					
Normal Mode	95%				
AVR Mode	92%				
Physical					
Dimension (DxWxH)	197 x 110 x 124		234 x 134 x 181		297 x 150x199
Net Weight (kgs)	2.4	3.91	5.4	6.55	8.56
Environment					
Temperature	0-40˚C				
Humidity	0-90% relative humidity (Non-condensing)				