# **USER MANUAL**

## AVR 5K/8K/10K



## Automatic Voltage Regulator

## I. Introduction

Thank you for purchasing this AVR. This AVR is designed to automatically maintain a constant voltage level to protect sensitive electronics from brownouts and over voltages. Equipped with comprehensive information display, it's easy to monitor the power status.

- Microprocessor control guarantees high reliability
- Time delay function eliminates transients that can affect connected equipment.
- Startup countdown time display
- Over-voltage, under-voltage, over-heat and over current protection
- Provides surge and spike suppression
- Frequency: 50Hz or 60Hz mode
- Input and output voltage display for Color display
- Load level display
- Over load protection

# II. Important Safety Caution (SAVE THESE INSTRUCTION)

To safely operate this AVR, please read and follow all instructions carefully. Read this manual thoroughly before attempting to unpack, install, or operate. You may keep this quick guide for further reference.

**CAUTION:** The unit is designed only for use under the 50 /60Hz input frequency and pure sine wave environment. Any other input frequency or waveform will effect the voltage range and load capability.

**CAUTION:** Please DO NOT connect the unit to the environment with direct voltage (DC) or simulated sine wave.

**CAUTION:** To prevent the risk of fire or electric shock, install in a temperature and humidity controlled indoor area free of conductive contaminants. (See the specifications for the acceptable temperature and humidity range.)

## **III. Product Overview**

Side View



**Back View** 



- 1. Color screen display
- 2. Startup delay time selector
- 3. Power Switch
- 4. Handle
- 5. The fan
- 6. Neutral input terminal
- 7. Line input terminal
- 8. Grounding
- 9. Neutral output terminal
- 10. Line output terminal (brown)
- 11. Output sockets

## **IV.Installation and Operation**

#### 1. Inspection

Remove the unit from its packaging and inspect it for damage that may have occurred during shipping. If any damage is discovered, repack the unit and return it to the place of purchase.

#### 2. Placement

Install the unit in any protected environment that provides adequate airflow around the unit, and is free from excessive dust, corrosive fumes and conductive contaminants. Do not operate this unit in an environment where the ambient temperature or humidity is high. On the other hand, place the unit from the monitor at least 20cm to avoid interference.



#### 3. Wall Outlet Connection

Plug the unit into a 3-wire grounded receptacle.

#### 4. Setting Startup Delay Time Switch

**Delay**: Setting delay time as 3minutes.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

#### 5. Load connection

The AVR will provide pure power to connected devices. Simply connect sensitive loads to these receptacles.

#### 6. Turn On/Off

Turn on the unit by pressing the power switch to "RESET" position. Then, all connected devices will be powered on.

## V. Application

**CAUTION:** The total power consumption of all equipment plugged into the AVR must not exceed its capacity. A total load in excess of its capacity will cause the breaker to fault (blow)

For the capacity of unit, please check the specifications.

The AVR is designed for use with voltage sensitive equipment such as: a home computer, monitor, inkjet printer, scanner or fax. It is also designed for use with home electronics equipment such as television, stereos, CD players, VCRs, and DVD players, data processing equipment, modems, typewriters, calculators, and telephone equipment. When delay time Setting as 3 minutes It's perfect to use with devices such as refrigerators, freezers, air conditioners or dehumidifiers.

When use the AVR with an Uninterruptible Power Supply (UPS), connect the UPS to the output of this product, then connect the product to the wall outlet.

### VI. Specifications 1. Input Range 80-260V

MODEL	A5K-80C3C	A8K-80C3C	A10K-80C3C		
CAPACITY	5000VA	8000VA	10000VA		
INPUT					
Voltage	220 VAC				
Input Range	80 – 260 VAC				
Frequency	50 Hz or 60 Hz				
OUTPUT					
Voltage	220 VAC				
Voltage	-10 % ~ + 10%				
Regulation					
PHYSICAL					
Dimension	450 x 210 x 237 (mm)				
(DxWxH)					
Net Weight	11.14 kg	14.64 kg	16.53 kg		
ENVIRONMENT					
Temperature	0-40°C				
Humidity	0-90% relative humidity (non-condensing)				

## 2. Input Range 100-260V

MODEL	A5K-	A8K-	A10K-	
	100C3C	100C3C	100C3C	
CAPACITY	5000VA	8000VA	10000VA	
INPUT				
Voltage	220 VAC			
Input Range	100 – 260 VAC			
Frequency	50 Hz or 60 Hz			
OUTPUT				
Voltage	220 VAC			
Voltage	-10 % ~ + 10%			
Regulation				
PHYSICAL				
Dimension	450 x 210 x 237 (mm)			
(DxWxH)				
Net Weight	11.06 kg	14.42 kg	16.34 kg	
ENVIRONMEN	NT			
Temperature	0-40°C			
Humidity	0-90% relative humidity (non-condensing)			

## 3. Input Range 140-260V

MODEL	A5K-	A8K-	A10K-		
	140C3C	140C3C	140C3C		
CAPACITY	5000VA	8000VA	10000VA		
INPUT					
Voltage	220 VAC				
Input Range	140 – 260 VAC				
Frequency	50 Hz or 60 Hz				
OUTPUT					
Voltage	220 VAC				
Voltage	-10 % ~ + 10%				
Regulation					
PHYSICAL					
Dimension	450 x 210 x 237 (mm)				
(DxWxH)					
Net Weight	10.96 kg	14.31 kg	15.95 kg		
ENVIRONMENT					
Temperature	0-40°C				
Humidity	0-90% relative humidity (non-condensing)				