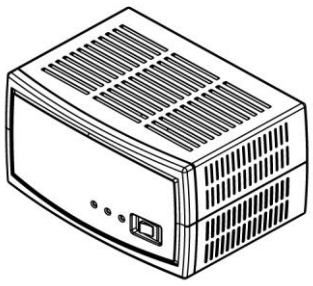


Automatic Voltage Regulator Models
V-Armor600E/1000E/1500E/2000E
User's Manual

K01-C000035-00

IMPORTANT SAFETY INSTRUCTIONS

(SAVE THESE INSTRUCTIONS)

This manual contains important safety instructions. Please read and follow all instructions carefully during installation and operation of the unit. Read this manual thoroughly before attempting to unpack, install, or operate your V-Armor.

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.)
CAUTION! To reduce the risk of overheating the V-Armor, do not cover the V-Armor's cooling vents and avoid exposing the unit to direct sunlight or installing the unit near heat emitting appliances such as space heaters or furnaces.
CAUTION! Do not plug the V-Armor input into its own output.
CAUTION! Do not allow liquids or any foreign object to enter the V-Armor. Do not place beverages or any other liquid-containing vessels on or near the unit.
CAUTION! In the event of an emergency, press the OFF button and disconnect the power cord from the AC power supply to properly disable the V-Armor.
CAUTION! Unplug the V-Armor prior to cleaning and do not use liquid or spray detergent.

INSTALLING YOUR V-Armor SYSTEM

UNPACKING

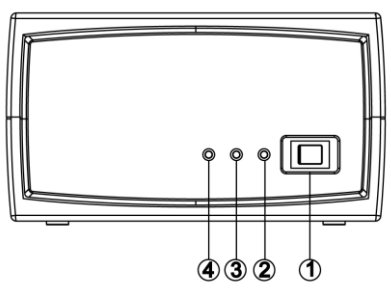
The box should contain the following:
(1)V-Armor Unit×1; (2) Power Cord×1; (3) User Manual×1;

Applications

The V-Armor automatically corrects brownouts (by boosting low voltage) and over voltages (by stepping down high voltage) from the power utility service to levels that are safe for computers, as well as other sensitive equipment. The V-Armor provides the highest degree of protection from line voltage sags and swells.
The total power consumption of all equipment plugged into the V-Armor must not exceed the "Maximum Output Power Capacity" rating listed in the Specifications table.

BASIC OPERATION

FRONT PANEL DESCRIPTION



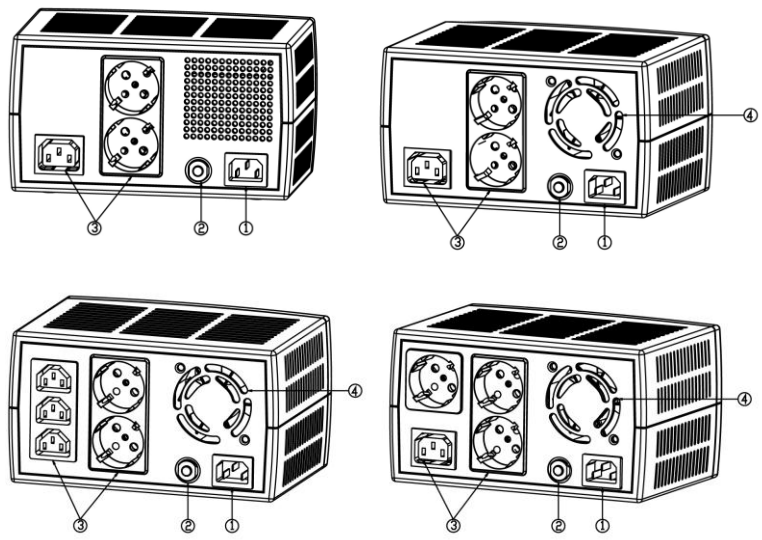
1. Power Switch
Press the power switch to turn the ON / OFF V-Armor.

2. Normal Mode LED
The green LED will light when utility power is normal.

3. AVR Mode LED
The yellow LED will light when utility power is abnormal and the unit will work in AVR mode.
The yellow LED will flash every 3 seconds when input line voltage is not in acceptable range and the unit will switch off the outputs.

4. Fault LED
The red LED will light when fault or over load occurs.

REAR PANEL DESCRIPTION



1. AC Inlet
Connect to utility power through the input power cord.

2. Input Circuit Breaker
The circuit breaker provides optimal overload protection.

3. AC outlet
The V-Armor provides outlets for connected equipment to insure temporary uninterrupted operation during a power failure and against surges and spikes.

4. Fan
The V-Armor provides fan for heat dissipation (for V-Armor1000E/1500E/2000E).

TECHNICAL SPECIFICATIONS

Model	V-Armor600E	V-Armor1000E	V-Armor1500E	V-Armor2000E
Capacity (VA)	600	1000	1500	2000
Capacity (Watts)	600	1000	1500	2000
Nominal Voltage	220/230Vac			
Input				
Input Voltage Range	165Vac-278Vac			
Frequency	50 / 60Hz			
Output				
Output Voltage Regulation	220/230Vac +/-10%			
Overload Protection	Firmware & Circuit Breaker			
Surge Protection	445 Joules (L-N)			
Audible Alarms				
Overload/Fault	Continuously sounding			
Environmental				
Operating Temperature	0° C to 40° C			
Operating Relative Humidity	0 to 90%			
Physical				
Maximum Dimensions (HxWxD) (mm)	150 x 120 x 200 mm			

CYBERPOWER GREENPOWER TECHNOLOGY

CyberPower's Green Commitment

CyberPower is dedicated to the development of green products, and has adopted Green practices throughout its business, including: membership in Climate Savers Computing Initiative (CSCI), accordance with the Restriction on Hazardous Substances (RoHS), Waste Electrical and Electronic Equipment (WEEE) protocols, as well as ISO 14001 and IECQ QC080000. CyberPower pledges to provide the advanced energy solution for the environment and become a leading eco-friendly organization in the V-Armor industry.

Reduce Energy Cost with GreenPower Technology

CyberPower's goal is not only to provide eco-friendly products but also to bring the best value for consumers. The advanced energy-saving design improves the operating efficiency and eliminates waste energy consumption**.** As a result, consumers will enjoy significant energy cost savings with the adoption of **GreenPower** technology.

TROUBLESHOOTING

Problem	Possible Cause	Solution
The V-Armor will not turn on.	The unit is not connected to an AC outlet.	The unit must be connected to a 220/230V 50/60Hz outlet.
	Mechanical problem.	Contact CyberPower Systems Technical Support.
Outlets do not provide power to equipment	Input circuit breaker is effective	Reset the input circuit breaker.
	Unit has been damaged by a surge or spike.	Contact CyberPower Systems Technical Support.

For more information, visit www.cpsww.com