

## Armor ARMOR 600

# ARMOR LINE UPS 600VA / 360W User Manual

Battery Backup & Surge Protector with AVR

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your ARMOR LINE UPS 600VA / 360W Battery Backup & Surge Protector with Automatic Voltage Regulation (AVR). Please read this manual thoroughly before installation and use, and retain it for future reference.

## 2. SAFETY INSTRUCTIONS

- Do not open the UPS casing. There are no user-serviceable parts inside.
- Do not expose the UPS to direct sunlight, excessive heat, or humidity.
- Ensure proper ventilation around the unit. Do not block ventilation openings.
- Connect the UPS only to a grounded power outlet.
- Do not connect appliances with high power consumption (e.g., laser printers, heaters) to the UPS battery backup outlets.
- In case of emergency, press the power button to turn off the UPS and disconnect it from the power source.

## 3. PRODUCT OVERVIEW

The ARMOR LINE UPS provides reliable battery backup and surge protection for your electronic devices. It features Automatic Voltage Regulation (AVR) to stabilize incoming power without draining the battery, extending battery life and ensuring consistent power delivery.



Front view of the ARMOR LINE UPS, showing the power button and the LCD display. The display indicates Input Voltage (180 VAC), AC Mode, Output Voltage (212 VAC), Battery Level, and Load Level.

### Key Features:

- **AVR Boost and Buck:** Automatically corrects under-voltage or over-voltage conditions without using battery power.
- **Cold Start Function:** Allows the UPS to power on using battery power without utility connection.
- **Smart USB Interface:** For real-time power monitoring and automatic shutdown capabilities.
- **Built-in Self-Diagnostic Function:** Executes automatically upon power-on or via software control.
- **Modem/LAN Internet Generator Set:** Protects network connections from spikes or surges.
- **Faster Charging Capacity:** Recharges to 90% in 6-8 hours.

- **Auto Charging at Off Mode:** Battery charges continuously even when the UPS is off.
- **Auto-Restart Function:** UPS automatically restarts when utility power recovers.

## 4. SETUP

### 4.1 Unpacking

Carefully unpack the UPS and inspect it for any shipping damage. If any damage is found, do not operate the unit and contact your dealer.

### 4.2 Placement

- Place the UPS in a clean, dry, and well-ventilated area.
- Avoid placing the UPS near heat sources or in direct sunlight.
- Ensure there is adequate space (at least 2 inches) around all sides of the UPS for proper airflow.

### 4.3 Initial Charging

Before initial use, connect the UPS to a standard wall outlet and allow it to charge for at least 8 hours. This ensures the battery is fully charged and ready to provide optimal backup power.

### 4.4 Connecting Devices

1. Plug the UPS power cord into a grounded wall outlet.
2. Connect your computer, monitor, and other critical electronic devices to the battery backup outlets on the rear of the UPS. These outlets provide both surge protection and battery backup.
3. For devices that only require surge protection (e.g., printers, scanners), use the surge-only outlets if available.
4. Connect the USB cable from the UPS to your computer for power management software functionality (if applicable).
5. For network protection, connect your modem/router to the UPS using the provided Modem/LAN protection ports.

## 5. OPERATING INSTRUCTIONS

### 5.1 Powering On/Off

- **To Power On:** Press and hold the power button on the front panel for approximately 3 seconds until you hear a beep and the LCD display illuminates.
- **To Power Off:** Press and hold the power button for approximately 3 seconds until you hear a beep and the LCD display turns off.

### 5.2 LCD Display Indicators

The LCD display provides real-time status information about the UPS. Refer to the image in Section 3 for a

visual guide.

- **INPUT VAC:** Displays the incoming utility voltage.
- **AC MODE:** Indicates that the UPS is operating on utility power.
- **OUTPUT VAC:** Displays the voltage being supplied by the UPS to connected devices.
- **BATT. LEVEL:** Shows the current charge level of the internal battery.
- **LOAD LEVEL:** Indicates the percentage of the UPS's capacity being used by connected devices.

### 5.3 Cold Start Function

The Cold Start function allows you to power on the UPS and connected devices using only battery power, even when there is no utility power available. To activate, ensure the UPS is off and not connected to utility power, then press and hold the power button for approximately 5 seconds. The UPS will power on and supply battery power to the outlets.

### 5.4 Smart USB Interface

Connect the UPS to your computer via the USB port to enable power management features. This allows for real-time monitoring of UPS status, automatic shutdown of your computer during extended power outages, and configuration of various settings. Refer to the software documentation for detailed instructions.

## 6. MAINTENANCE

### 6.1 Battery Care

- To maximize battery life, keep the UPS connected to a wall outlet at all times to ensure the battery remains fully charged.
- The UPS features **Auto Charging at Off Mode**, meaning the battery will continue to charge even when the unit is powered off, as long as it is connected to utility power.
- If the UPS is stored for an extended period, recharge the battery every three months to prevent permanent damage.

### 6.2 Self-Diagnostic Function

The UPS performs a self-diagnostic test automatically upon power-on. This test checks the internal components and battery status. If an issue is detected, an alarm may sound, and an error code might be displayed on the LCD. Refer to the Troubleshooting section for common error codes.

### 6.3 Cleaning

To clean the exterior of the UPS, use a soft, dry cloth. Do not use liquid or aerosol cleaners, as they may damage the unit or create a shock hazard.

### 6.4 Battery Replacement

The battery in your UPS is designed for a specific lifespan. When the battery reaches the end of its life, it should be replaced by qualified service personnel. Contact Armor support or a certified technician for battery replacement services. Do not attempt to replace the battery yourself.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your ARMOR LINE UPS. If the problem persists after following these steps, contact customer support.

Problem	Possible Cause	Solution
UPS does not turn on.	Battery discharged or not connected to utility power.	Connect the UPS to a wall outlet and allow it to charge for at least 8 hours. Ensure the power button is pressed correctly.
UPS is in battery mode frequently.	Input voltage is too high or too low (AVR working).	This is normal operation for the AVR function. If it happens excessively, check the utility power quality.
Overload alarm.	Too many devices connected, exceeding UPS capacity.	Disconnect non-essential devices from the battery backup outlets. Check the Load Level indicator on the LCD.
Battery does not charge.	UPS not connected to utility power or battery fault.	Ensure the UPS is plugged into a live wall outlet. If the problem persists, the battery may need replacement.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	ARMOR 600
Capacity	600VA / 360W
Product Dimensions	3.98 x 5.59 x 11.73 inches
Item Weight	9.35 pounds
Form Factor	Compact
Charging Time	6-8 hours to 90% capacity
Manufacturer	ARMOR

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product packaging or visit the official Armor website. Keep your purchase receipt as proof of purchase for warranty

claims.