



TRIPP LITE  
SMART1200LC  
D SmartPro  
LCD UPS  
Systems



# TRIPP LITE SMART1200LCD SmartPro LCD UPS Systems Owner's Manual

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**TRIPP LITE SMART1200LCD SmartPro LCD UPS Systems**



## Product Information

### Specifications:

- Models:
  - SMART1200LCD (Series Number: AGOM5515)
  - SMART1500LCD (Series Number: AG-8869)
  - SMART1500LCDXL (Series Number: AGSM8191)
- Not suitable for mobile applications

## Important Safety Instructions

### SAVE THESE INSTRUCTIONS

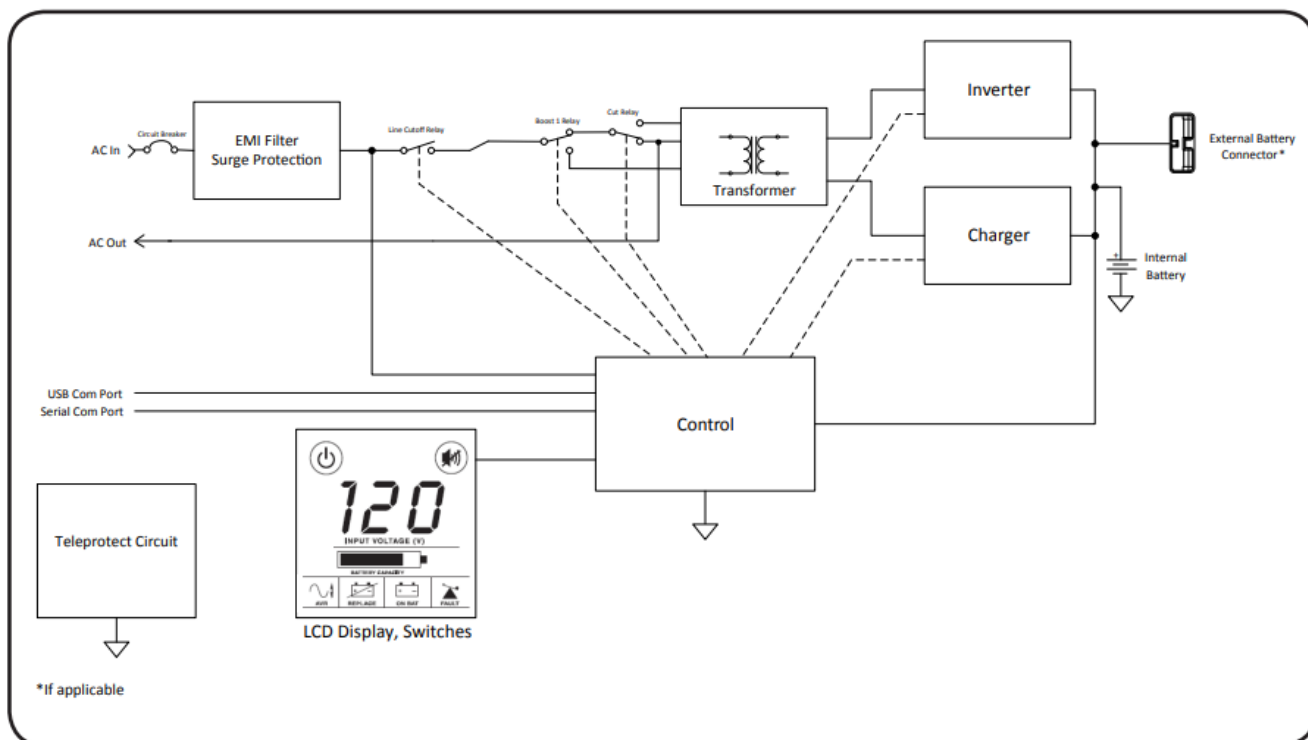
This manual contains instructions and warnings that should be followed during the installation, operation and storage of this product. Failure to heed these warnings may affect your warranty.

### UPS Location Warnings

- Install your UPS indoors, away from excess moisture or heat, conductive contaminants, dust or direct sunlight.
- For best performance, keep the indoor temperature between 32° F and 104° F (0° C and 40° C).
- Leave adequate space around all sides of the UPS for proper ventilation.
- Do not mount unit with its front or rear panel facing down (at any angle). Mounting in this manner will seriously inhibit the unit's internal cooling, eventually causing product damage not covered under warranty.

### UPS Connection Warnings

- Connect your UPS directly to a properly grounded AC power outlet. Do not plug the UPS into itself; this will damage the UPS.
- Do not modify the UPS's plug, and do not use an adapter that would eliminate the UPS's ground connection.
- Do not use extension cords to connect the UPS to an AC outlet.
- If the UPS receives power from a motor-powered AC generator, the generator must provide clean, filtered, computer-grade output.
- The mains socket outlet that supplies the UPS should be easily accessible and located near the UPS.
- The building installation provides short circuit back-up protection.



## Equipment Connection Warnings

- Use of this equipment in life support applications where failure of this equipment can reasonably be expected to cause the failure of the life support equipment or to significantly affect its safety or effectiveness is not recommended.
- Do not connect surge protectors or extension cords to the output of your UPS. This might damage the UPS and may affect the surge protectors and UPS warranties.
- Connect the UPS to an outlet that is adequately protected against excess currents, short circuits and earth faults as part of the building installation.

## Battery Warnings

- Your UPS does not require routine maintenance. Do not open your UPS for any reason. There are no user-serviceable parts inside.
- Batteries can present a risk of electrical shock, chemical hazard and burn from high short-circuit current. Observe proper precautions. Do not dispose of the batteries in a fire. Do not open the UPS or batteries. Do not short or bridge the battery terminals with any object. Unplug and turn off the UPS before performing battery replacement. Use tools with insulated handles. There are no user-serviceable parts inside the UPS. Battery replacement should be performed only by authorized service personnel using the same number and type of batteries (Sealed Lead-Acid). The batteries are recyclable. Refer to your local codes for disposal requirements or visit <http://www.tripplite.com/support/recycling-program> for recycling information. Tripp Lite offers a complete line of UPS System Replacement Battery Cartridges (R.B.C.). Visit Tripp Lite on the Web at <http://www.tripplite.com/products/battery-finder/> to locate the specific replacement battery for your UPS.
- When adding an external battery pack, connect only a Tripp Lite recommended battery pack of the correct voltage and type. Do not connect or disconnect the external battery pack when the UPS is operating on battery power. Visit Tripp Lite on the Web at

[www.tripplite.com/support](http://www.tripplite.com/support) to locate the specific battery for your UPS.



**Pb**

### UPS and Battery Recycling

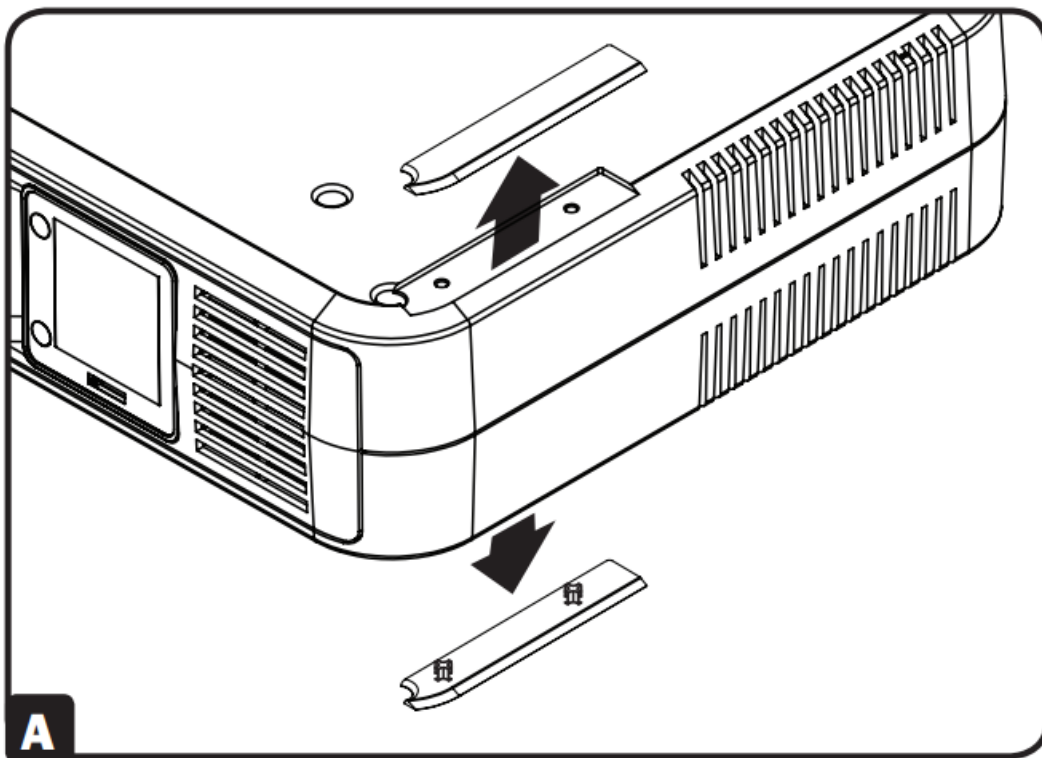
Please recycle Tripp Lite Products. The batteries used in Tripp Lite products are sealed Lead-Acid batteries. These batteries are highly recyclable. Please refer to your local codes for disposal requirements. You can call Tripp Lite for recycling info at 1.773.869.1234. You can go to the Tripp Lite Website for up-to-date information on recycling the batteries or any Tripp Lite product. Please follow this link: <http://www.tripplite.com/support/recycling-program/>

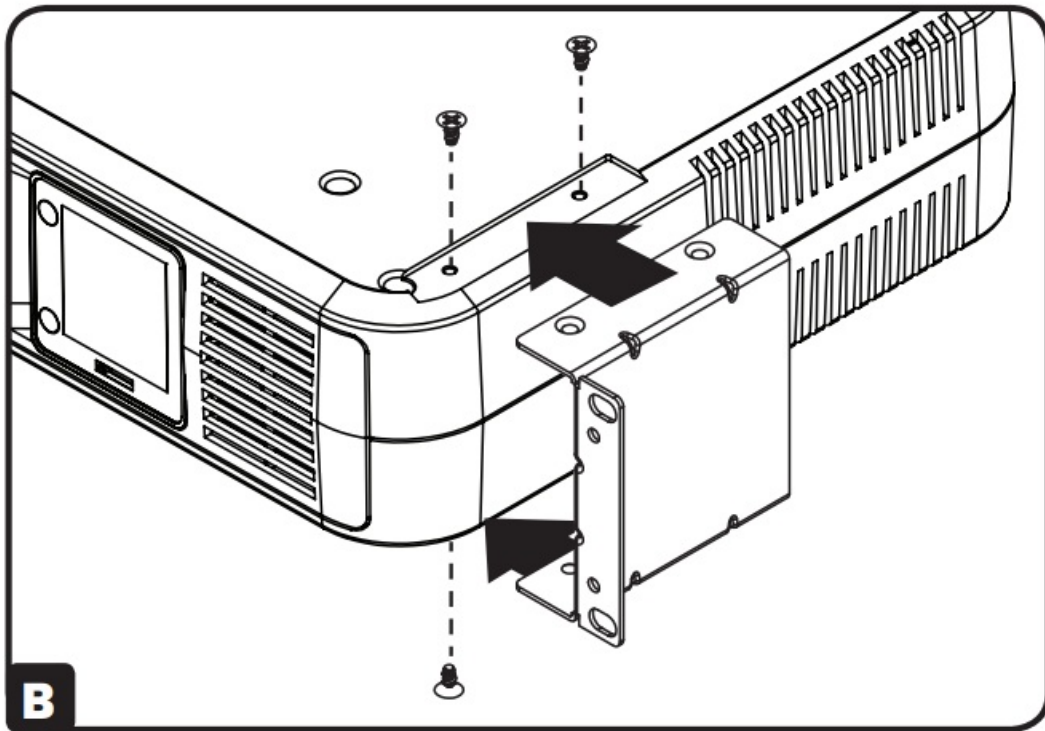
### Quick Installation

1. Place the UPS in a horizontal or vertical (tower) position.

To install the UPS in a 4-post or 2-post rack, remove the mounting hole covers from the top and bottom sides of the UPS A . To install the UPS in a 4-post rack, attach the mounting ears to each side of the UPS using the included hardware B . To install the UPS in a

2. post rack, attach the mounting ears to each side of the UPS using the included hardware C . With the help of an assistant (if needed), lift the UPS and attach it to a standard rack with user-supplied hardware.





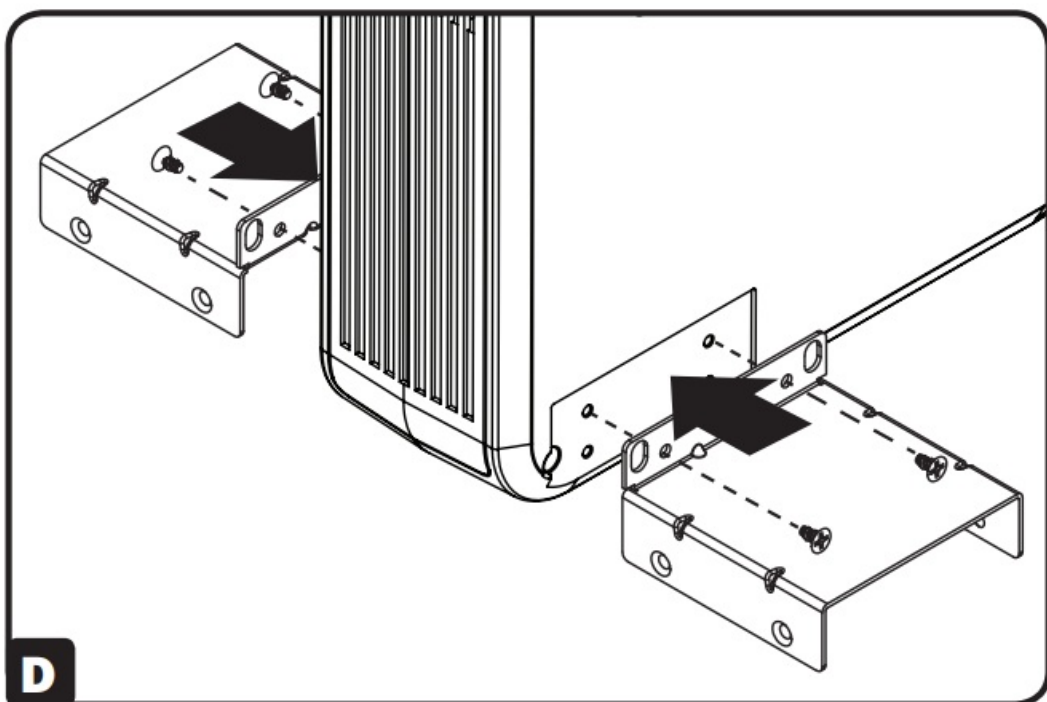
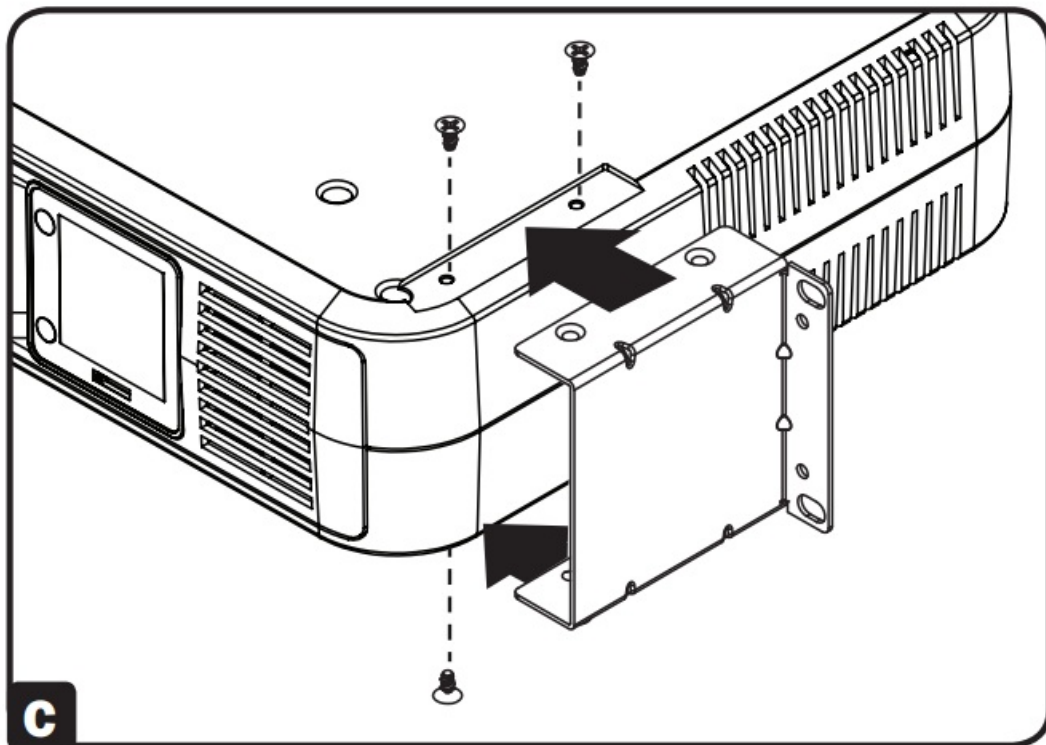
**CAUTION:** If the UPS is installed in a rack, allow at least 2 cm (0.75 in.) clearance above and below the unit. If the UPS is placed on a flat surface, do NOT stack any other object directly on top of the unit.

- The UPS will stand in a tower position without the aid of the included hardware. For increased stability, Tripp Lite recommends attaching the included hardware as shown in diagram D . In either position, the user must determine the fitness of hardware and procedures before installation.

**Note:** The UPS and its included hardware are designed for use with common rack types and may not be appropriate for all applications.

The LCD may be rotated to match the orientation of the UPS. To rotate, first carefully insert a small tool into the slots located on the each side of the LCD. Remove the LCD from the UPS housing, then rotate and press it back into place.

- **CAUTION:** To safely balance the UPS in a vertical position, make sure the LCD is located at the top of the front panel.



- Plug the UPS into a properly grounded outlet outlet.\*
- After plugging the UPS into a wall outlet, push the ON/OFF button for one second to turn on the UPS (see Basic Operation section for more information).

Note: The UPS will not turn on automatically in the presence of live utility power.

- \* Use an outlet that does not share a circuit with a heavy electrical load, such as an air conditioner or refrigerator.

### 3. Plug equipment into the UPS.

The UPS is designed to support electronic equipment only. Connected equipment will overload the UPS if the total VA ratings for all the equipment connected to the outlets exceeds the UPS Output Capacity. To find VA ratings, look at equipment nameplates. If the equipment is listed in amps, multiply the number of amps by 120 volts to determine VA. (Example: 1 amp  $\times$  120 volts = 120 VA). If unsure whether the outlets are overloaded, run a self-test (see MUTE/TEST Button description for more information).

#### 4. Optional – Connect Communication Cables.

The UPS includes USB and RS-232 communication ports, as well as Tel/DSL/Ethernet and Coaxial surge protection jacks. These connections are optional, and the UPS will function properly without these connections. Not compatible with PoE (Power over Ethernet) applications.

**CAUTION:** The UPS must be plugged into a live AC outlet and powered on for 24 hours after initial installation to fully charge the internal battery. Connected equipment will receive utility-supplied AC power (if present) immediately after the UPS is plugged in and turned on, but connected equipment will not receive full battery backup in the event of a blackout or severe brownout, unless the internal battery is fully charged.

## Basic Operation

### UPS ON/OFF

- Plug the UPS into a grounded outlet.



- Turn the UPS on: Press and hold the MODE button for 2 seconds. The UPS alarm will beep once briefly after 2 seconds have passed.
- Plug equipment into the UPS: Your UPS is designed to support electronic equipment only. You will overload the UPS if the total VA ratings for all the equipment you connect to the “Battery, Surge and Noise Protected” outlets exceeds the UPS’s Output Capacity. To estimate your equipment’s power requirements, look on the nameplate. If the equipment is listed in amps, multiply the number of amps by 120 to determine VA, (Example: 1 amp x 120 = 120 VA). Your UPS is fully loaded when the display indicates 100% load.
- Turn the UPS off: Press and hold the MODE button for 2.5 seconds. The UPS alarm will beep once after 2.5 seconds have passed.

### LCD

The LCD indicates a variety of UPS operational conditions. All descriptions apply when the UPS is plugged into an AC outlet and turned on. The LCD can be rotated for easy viewing, regardless of whether the UPS is in a horizontal or vertical (“tower”) position. To rotate the display, insert a small tool in the slots on the sides of the display to pop it out of the UPS housing; rotate the display, and snap it back into the UPS housing.

### LCD Features

Tap the MODE button to advance from one display to the next. Use the MUTE button to toggle settings for Power Sensitivity Control, External Battery Setting Control, Scroll Control, Alarm, LCD Brightness and Self-test functions. The last option displayed before navigating away from this menu option will be the selected setting.

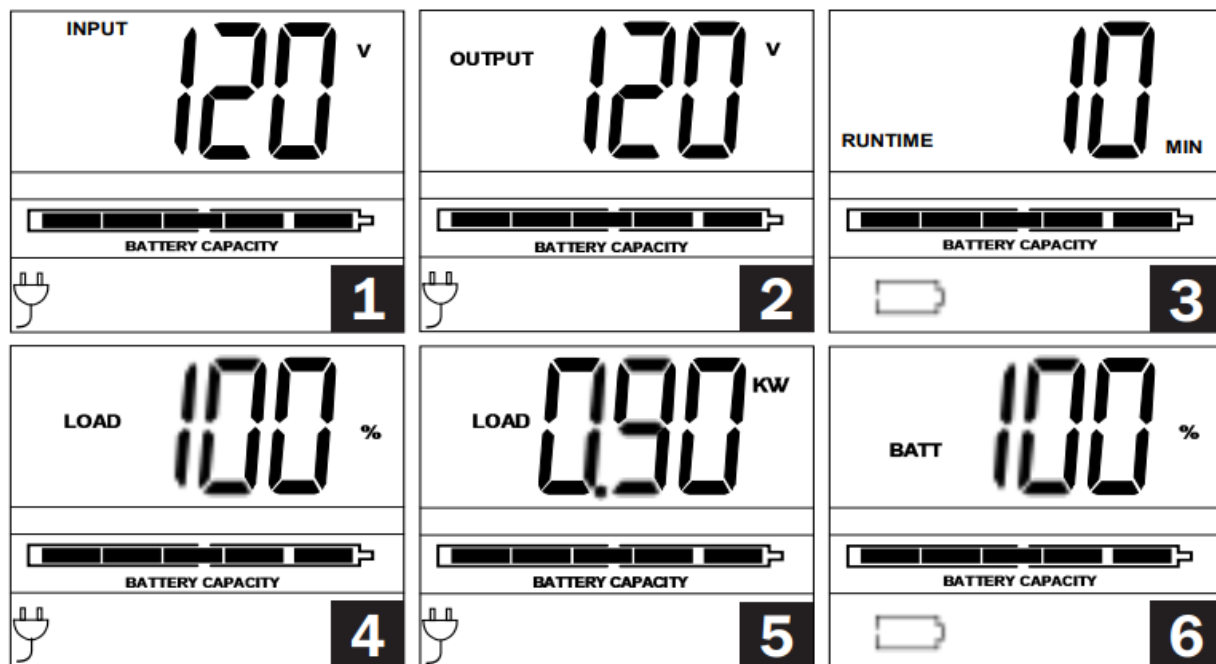
When the preferred setting has been selected, continue by pressing the MODE button. If the screen is idle for 20 seconds, the LCD will return to the home screen, retaining the last selected settings.

### Display Power Conditions

Use the MODE button to advance through power conditions.




1. Voltage In
2. Voltage Out

3. Estimated Runtime (in minutes)
4. Load %
5. Load Wattage\*
6. Battery Capacity %





Load Wattage is displayed in watts up to “999”, and then will be displayed in Kilowatts.

### Enable/Disable Alarm



Tap the  MODE button repeatedly to advance to the LCD screen featuring the  icon. Press the  MUTE button to select ON or OFF alarm mode settings. The last option displayed before navigating away from this menu option will be the selected setting.

### LCD Brightness

Tap the  MODE button repeatedly to advance to the LCD Brightness screen marked “LCD”. Press the  MUTE button to select Medium Backlight (default), High Backlight or Dim Backlight. The last option displayed before navigating away from this menu option will be the selected setting.

Note: After 2 minutes of inactivity, the backlight will revert to the Dim setting until a button is pressed.

### Self-test

Tap the  MODE button repeatedly to advance to the TEST BATT screen. Press the  MUTE button to initiate the test. The test will last approximately 10 seconds as the UPS switches to battery to test the

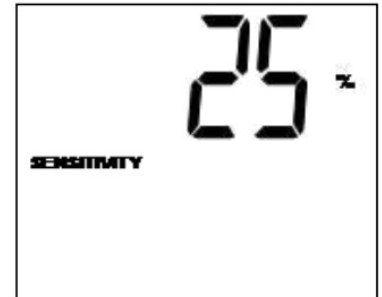
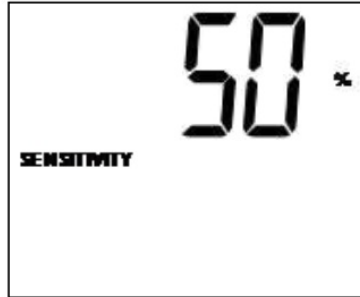
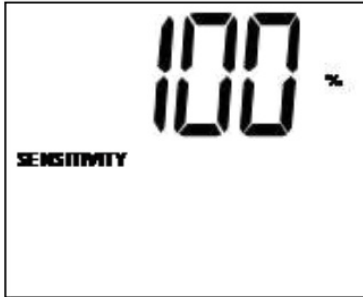


capacity with a load. Upon completion of the test, the screen will indicate PAS or BAD (pass or bad) for 20 seconds, then return to the home screen. Connected equipment can remain on during the test. Do not unplug your UPS, this will remove safe electrical grounding.

## Power Sensitivity



Tap the MODE button repeatedly to advance to Sensitivity screen, as shown here:



Press the MUTE button to advance through the options. The last option displayed, before navigating away from this menu option, will be the selected setting. This setting is normally set to 100%, which enables the UPS to protect against waveform distortions in its AC input. When such distortion occurs, the UPS will normally switch to providing PWM sine wave power from its battery reserves for as long as the distortion is present. In some areas with poor utility power or where the UPS's input power comes from a backup generator, frequent brownouts and/or chronic waveform distortion could cause the UPS to switch to battery too often, draining its battery reserves. You may be able to reduce how often your UPS switches to battery due to waveform distortion or brownouts by experimenting with different settings. As the setting is reduced, the UPS becomes more tolerant of variations in its input power's AC waveform.

**Note:** When experimenting with different settings, operate connected equipment in a safe test mode so that the effect on the equipment of any waveform distortions in the UPS's output can be evaluated without disrupting critical operations. The experiment should last long enough to assure that all expected line conditions are encountered.

## Scroll Control



Tap the MODE button repeatedly to advance to the Scroll screen as shown here:



Press the MUTE button to advance to the next available option. The last option displayed, before navigating away from this menu option, will be the selected setting.

This display option allows the user to select the option to automatically scroll each operating condition of the UPS (such as Input Voltage, Output Voltage and Runtime) automatically.

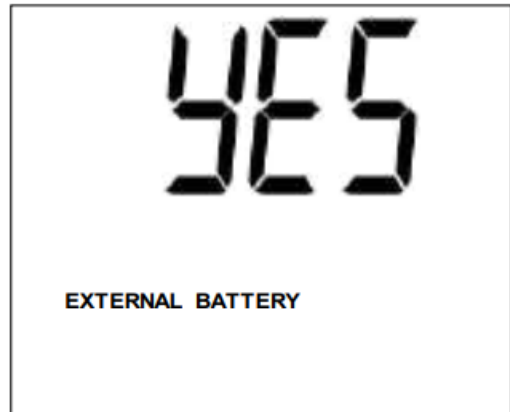
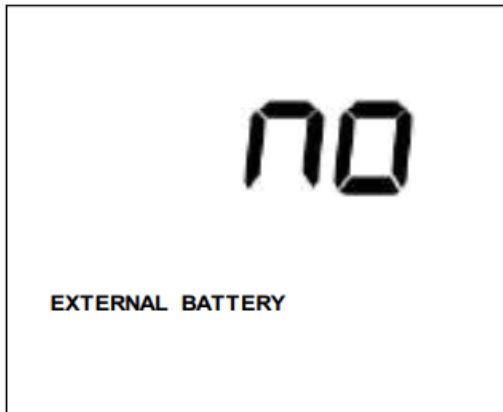
## Notes:

1. Each condition is displayed in 2 second intervals.
2. If a button is pressed while Scroll Mode is enabled, the scroll function will pause for 10 seconds to allow the user to manually make menu selections.

## External Battery Setting Control (XL model only)



Tap the MODE button repeatedly to advance to the External Battery screen, as shown here:








Press the MUTE button to advance to the next available option. The last option displayed, before navigating away from this menu option, will be the selected setting.

Note: The Battery Runtime calculation is based on this setting.

This feature setting allows the user to configure the UPS for use with an External Battery Pack or without an External Battery Pack. The Runtime will be automatically reconfigured.

Note: Battery Packs cannot be daisy chained. Only one Battery Pack can be attached to the UPS.

## Error Messages

In the event the UPS battery requires replacement, the  icon will flash, as well as the  icon. If there is an overload, the , , and  icons will flash simultaneously along with a numeric read out of the load percentage

## Features

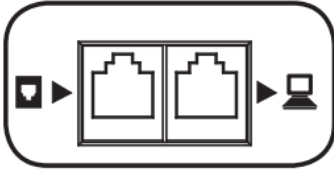
### UPS Features



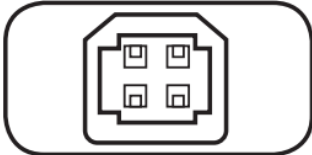
ON/OFF/MODE Button: Press and hold for 2 seconds to turn on the UPS and 2.5 seconds to turn the UPS off. When the UPS is on, tap this button repeatedly to advance through LCD screens. If utility power is absent, pressing and holding this button for 2.5 seconds will “cold-start” the UPS; i.e. turn it on and supply power to the outlets from its batteries.



**MUTE/ENTER Button:** Use this button to toggle selection options for: self-test, enable/disable alarm, LCD brightness, Sensitivity Control, Scroll Control and the External Battery Setting Control. This button can also be used to temporarily mute an active alarm by briefly pressing it.



**Tel/DSL Line Protection Jacks:** These jacks protect equipment against surges over a single phone line. Connecting your equipment to these jacks is optional. Your UPS will work properly without this connection. An RJ-11 cable is included with your UPS.

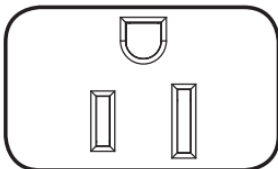


**USB and RS-232 Communication Ports:** These ports can connect your UPS to any computer for automatic file saves and unattended shutdown in the event of a power failure. Use with Tripp Lite's PowerAlert Software (available as a FREE download at [www.tripplite.com](http://www.tripplite.com)) and appropriate USB or DB9 cable. Both a USB and a DB9 cable are included with your UPS.



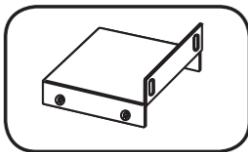
**Notes:**

1. This connection is optional. The UPS will work properly without this connection.
2. This UPS System provides basic communication compatibility with most integrated Windows®, Macintosh®, and Linux® power management applications.

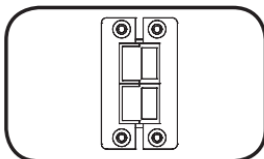


**Battery Backup Protected/Surge Protected Outlets:** Provide both battery backup and surge protection. Plug your computer, monitor and other critical equipment into these outlets.

Note: Do not plug laser printers into the UPS.



**Removable Mounting Hardware:** Adapts the UPS to either tower or rack-mount (2U) applications.



**External Battery Connector (XL model only):** Use to connect a Tripp Lite external battery pack for additional runtime. Only use the Tripp Lite BP24V15RT2U external battery pack (rated 24Vdc, 14Ahr with overcurrent protection). Refer to instructions available with the battery pack for complete connection information and safety warnings.

Note: Visit Tripp Lite on the Web at [www.tripplite.com/support](http://www.tripplite.com/support) to locate the specific battery for your UPS.



Resettable Input Circuit Breaker: Protects your electrical circuit from overcurrent draw from the UPS load. If this breaker trips, remove some of the load, then reset it by pressing it in.

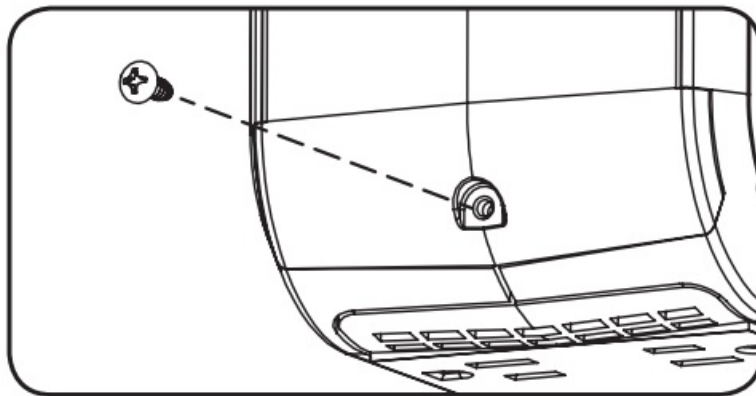
## Battery Replacement

Under normal conditions, the original battery in your UPS will last several years. Battery replacement should only be performed by qualified personnel. Refer to “Battery Warnings” in the Important Safety Warnings section for complete battery safety information.

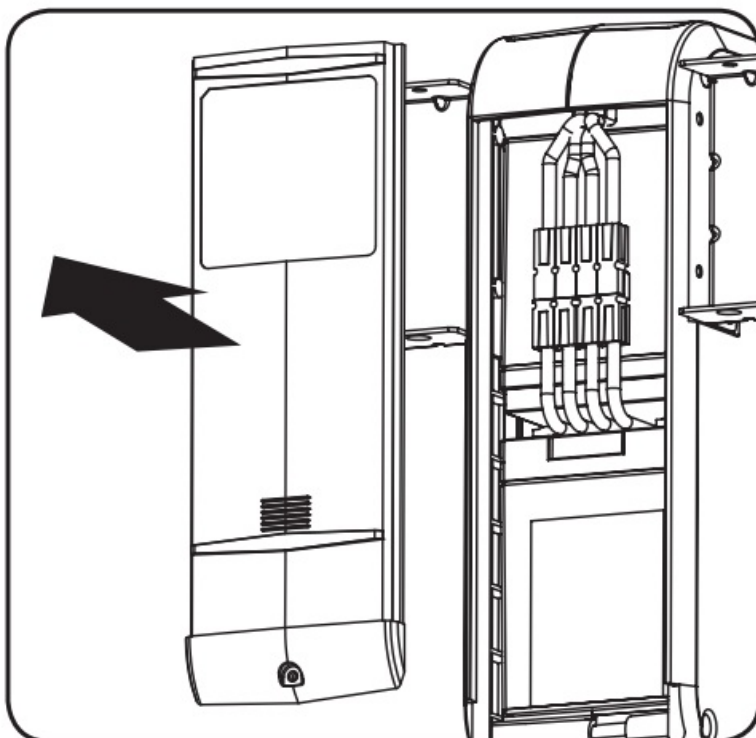
The SMART1200LCD UPS system requires a Tripp Lite RBC1200 replacement battery cartridge. The SMART1500LCD UPS system requires a Tripp Lite RBC1500 replacement battery cartridge. For the SMART1500LCDXL model, only Tripp Lite BP24V15RT2U external battery pack (rated 24Vdc, 14Ahr with overcurrent protection) should be connected to the external battery pack connector. For further information about replacement compatibility and ordering, visit Tripp Lite on the Web at <http://www.tripplite.com/products/battery-finder/>

### To Replace the Batteries:

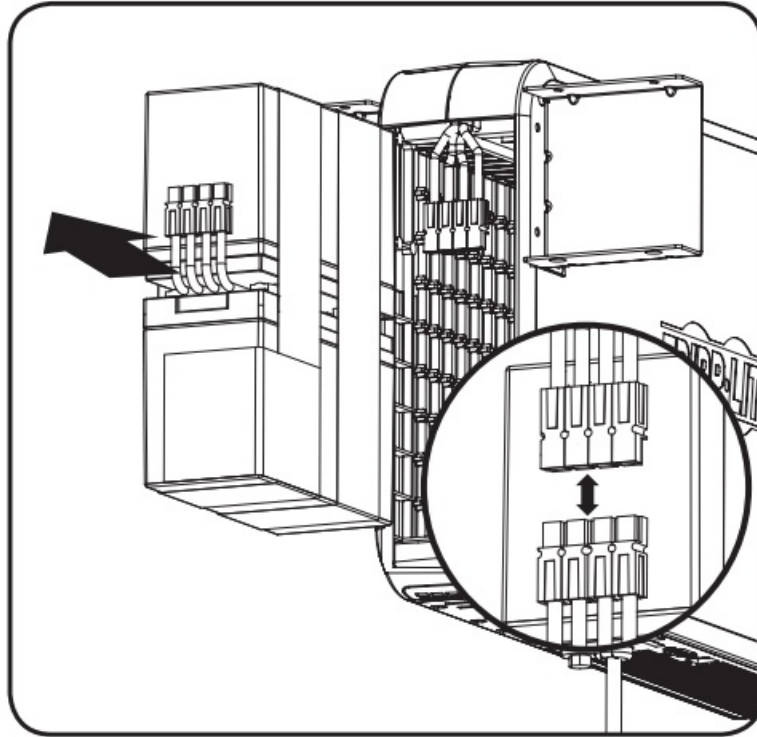
1. Remove the retaining screw located on the bottom of the unit.



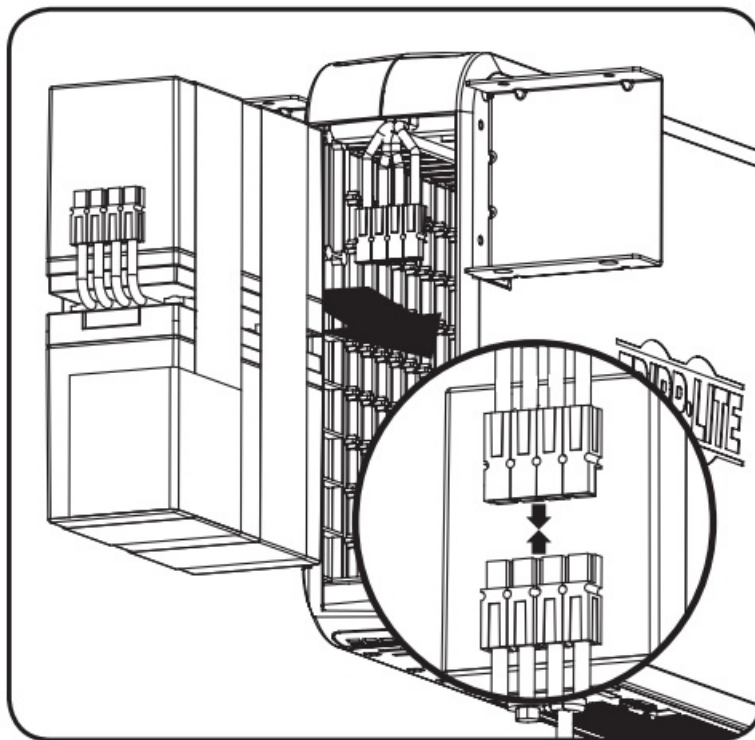
2. Carefully pull the bottom panel away from the UPS.



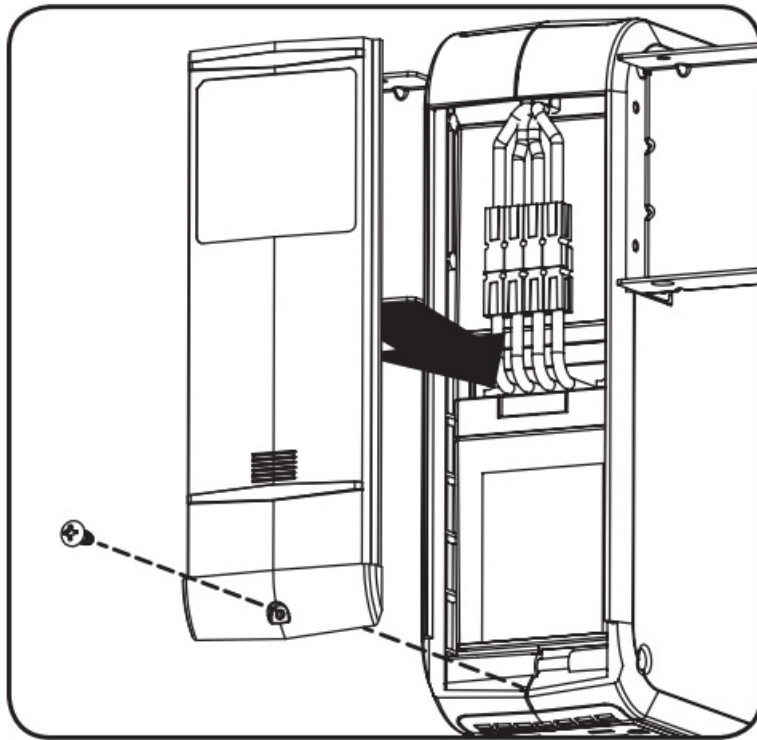
3. Disconnect the positive (red) and negative(black) connectors and carefully remove the old battery from the unit.



4. Carefully place the new batteries into the UPS and connect the positive (+) (red) connectors and negative (-) (black) connectors.




5. Reattach the bottom panel and secure using the retaining screw removed in step 1.




## Storage and Service

### Storage

To avoid battery drain, all connected equipment should be turned off and disconnected from the UPS. Press and

hold the  MODE button for 2.5 seconds. Your UPS will be completely turned off (deactivated), and will be ready for storage. If you plan on storing your UPS for an extended period, fully recharge the UPS batteries every

three months. Plug the UPS into a live AC outlet, turn it on by pressing and holding the  MODE button for 2 seconds, and allow the batteries to recharge for 4 to 6 hours. If you leave your UPS batteries discharged for a long period of time, they will suffer a permanent loss of capacity.

### Service

A variety of Extended Warranty and On-Site Service Programs are available from Tripp Lite. For more information on service, visit [www.tripplite.com/support](http://www.tripplite.com/support). Before returning your product for service, follow these steps:

1. Review the installation and operation procedures in this manual to insure that the service problem does not originate from a misreading of the instructions.
2. If the problem continues, do not contact or return the product to the dealer. Instead, visit [www.tripplite.com/support](http://www.tripplite.com/support).
3. If the problem requires service, visit [www.tripplite.com/support](http://www.tripplite.com/support) and click the Product Returns link. From here you can request a Returned Material Authorization (RMA) number, which is required for service. This simple on-line form will ask for your unit's model and serial numbers, along with other general purchaser information. The RMA number, along with shipping instructions will be emailed to you. Any damages (direct, indirect, special or consequential) to the product incurred during shipment to Tripp Lite or an authorized Tripp Lite service center is not covered under warranty. Products shipped to Tripp Lite or an authorized Tripp Lite service center must have transportation charges prepaid. Mark the RMA number on the outside of the package. If the product is

within its warranty period, enclose a copy of your sales receipt. Return the product for service using an insured carrier to the address given to you when you request the RMA.

## Product Registration

Visit [www.tripplite.com/warranty](http://www.tripplite.com/warranty) today to register your new Tripp Lite product. You'll be automatically entered into a drawing for a chance to win a FREE Tripp Lite product! \* No purchase necessary. Void where prohibited. Some restrictions apply. See website for details.

## FCC Part 68 Notice (United States Only)

If your Modem/Fax Protection causes harm to the telephone network, the telephone company may temporarily discontinue your service. If possible, they will notify you in advance. If advance notice isn't practical, you will be notified as soon as possible. You will be advised of your right to file a complaint with the FCC. Your telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper operation of your equipment. If it does, you will be given advance notice to give you an opportunity to maintain uninterrupted service. If you experience trouble with this equipment's Modem/Fax Protection, please visit [www.tripplite.com/support](http://www.tripplite.com/support) for repair/warranty information. The telephone company may ask you to disconnect this equipment from the network until the problem has been corrected or you are sure the equipment is not malfunctioning. There are no repairs that can be made by the customer to the Modem/Fax Protection. This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs. (Contact your state public utility commission or corporation commission for information.)

### FCC Notice, Class B

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications to this equipment not expressly approved by Tripp Lite could void the user's authority to operate this equipment.

### Equipment Attachment Limitations

(models with the Industry Canada label in Canada only)

**NOTICE:** The Industry Canada label identifies certified equipment. This certification means that the equipment meets the telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements Document(s). The Department does not guarantee the equipment will operate to the user's satisfaction. Before installing this equipment, users should ensure that it is



permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that the compliance with the above conditions might not prevent degradation of service in some situations. Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment. Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas. Caution: Users should not attempt to make connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate. Not compatible with PoE (Power over Ethernet) applications.

### Regulatory Compliance Identification Numbers

For the purpose of regulatory compliance certifications and identification, your Tripp Lite product has been assigned a unique series number. The series number can be found on the product nameplate label, along with all required approval markings and information. When requesting compliance information for this product, always refer to the series number. The series number should not be confused with the marketing name or model number of the product.

Tripp Lite has a policy of continuous improvement. Product specifications are subject to change without notice

- Note on Labeling
- Two symbols are used on the label.
- V~ : AC Voltage



- V : DC Voltage.

1111 W. 35th Street, Chicago, IL 60609 USA • [www.tripplite.com/support](http://www.tripplite.com/support)

### FAQ

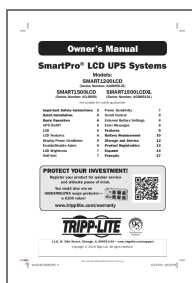
- **Q: Is the UPS suitable for mobile applications?**

A: No, the UPS is not suitable for mobile applications as stated in the product specifications.

- **Q: How do I register my product?**

A: Visit [www.tripplite.com/warranty](http://www.tripplite.com/warranty) to register your product for quicker service and warranty benefits.

### Documents / Resources



[TRIPP LITE SMART1200LCD SmartPro LCD UPS Systems](#) [pdf] Owner's Manual  
SMART1200LCD, SMART1500LCD, SMART1500LCDXL, SMART1200LCD SmartPro LCD UPS Systems, SMART1200LCD, SmartPro LCD UPS Systems, LCD UPS Systems, UPS Systems

### References

- [💡 One moment, please...](#)
- [User Manual](#)



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