



TRIPP LITE OMNIVSX850A Line Interactive UPS Systems Owner's Manual

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Owner's Manual
UPS Systems

Models: OMNIVSX850A, OMNIVSX1000A, OMNIVSX1500A
(Series Numbers: AG-04F5, AG-04F1, AG-04F2)



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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 the warranty.

UPS Location Warnings

- Install your UPS indoors, away from excess moisture or heat, conductive contaminants, dust or direct sunlight.
- Operating Temperature: 0°C to 40°C
- Storage Temperature: -15°C to 45°C
- Humidity: 0% to 90% R.H.
- Operating Altitude: 0 m to 2,000 m
- Storage Altitude: 0 m to 3,000 m
- Pollution: PD2
- Overvoltage Category: II for normal mode, I for stored energy mode
- Leave adequate space around all sides of the UPS for proper ventilation.
- Only set the UPS upright on a sturdy flat surface. Do not block fans or ventilation holes, as this will seriously inhibit the unit's internal cooling and cause 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 plug, and do not use an adapter that would eliminate the UPS 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.
- For use on a TN power distribution system of input power supply. The UPS stored energy output device provides a TN power system.

Equipment Connection Warnings



Short Circuit backup protection and overcurrent protection is provided by the building installation. To reduce the risk of fire, connect only to a circuit provided branch circuit overcurrent protection. The plug on the power supply cord is intended to serve as the disconnect device. Be sure the socket-outlet is installed near the equipment and is made easily accessible.

- 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 protector 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.

Model Number	Agency Series Number	Dimensions (H x W x D)	Weight	AC Fuse/ Breaker	Output Short-Circuit Current
OMNIVSX850A	AG-04F5	160 x 122 x 345 mm	6 kg	Fuse: T5AL, 250VAC	Approx. 64A Peak
OMNIVSX1000A	AG-04F1	160 x 122 x 345 mm	6.5 kg	Fuse: T1OAL, 250VAC	Approx. 64A Peak
OMNIVSX1500A	AG-04F2	182 x 130 x 320 mm	10 kg	Fuse: T1OAL, 250VAC	Approx. 75.8A Peak

Battery Warnings

• Batteries can present a risk of electrical shock 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 authorised 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 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 tripplite.com/products/battery-finder/ to locate the specific replacement battery for your UPS.



CAUTION: A battery can present a risk of electrical shock and high short-circuit current. Contact with any part of a grounded battery can result in electrical shock.

The following precautions should be observed when working on batteries:

- Remove watches, rings or other metal objects.
- Use tools with insulated handles.
- Wear rubber gloves and boots.
- Do not lay tools or metal parts on top of batteries.
- Disconnect the charging source and load prior to installing or maintaining the battery.
- Remove battery grounds during installation and maintenance to reduce likelihood of shock.
- Remove the connection from ground if any part of the battery is determined to be grounded.

- Unplug the UPS from the AC mains receptacle. Disconnect all cables, including the equipment plugged into the UPS.
- Servicing of batteries should be performed or supervised by personnel knowledgeable about batteries and required precautions.
- When replacing batteries, replace with the same type and number of batteries or battery packs.
- CAUTION: Do not dispose of batteries in a fire. The batteries may explode.
- CAUTION: Do not open or mutilate batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.

UPS and Battery Recycling



Tripp Lite products use sealed lead-acid batteries, which are highly recyclable.

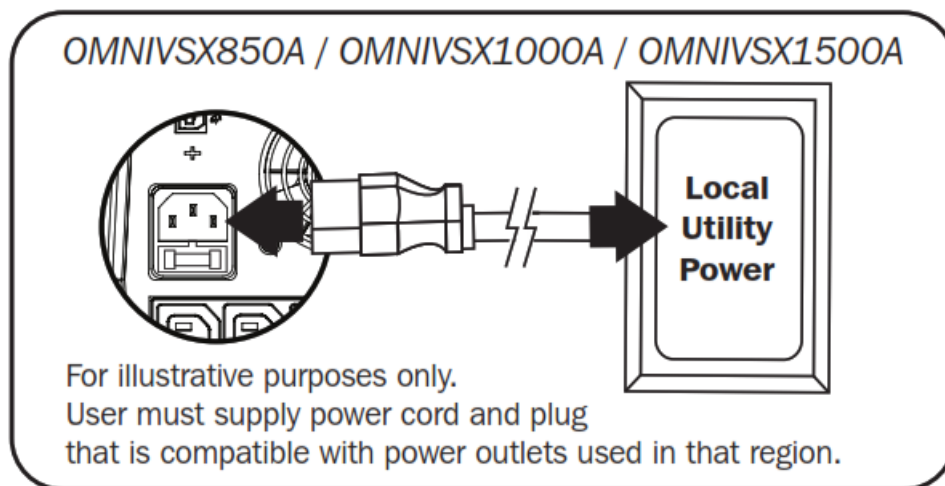
Call Tripp Lite at 1.773.869.1234 or visit tripplite.com/support/recycling-program for more information on recycling the batteries or any other Tripp Lite product. Please refer to local codes for disposal requirements.

Quick Installation

STEP 1: Plug the UPS into a properly grounded outlet.

After plugging the UPS into a wall outlet, press and hold the power button until a beep is heard, then release to turn on the UPS.

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

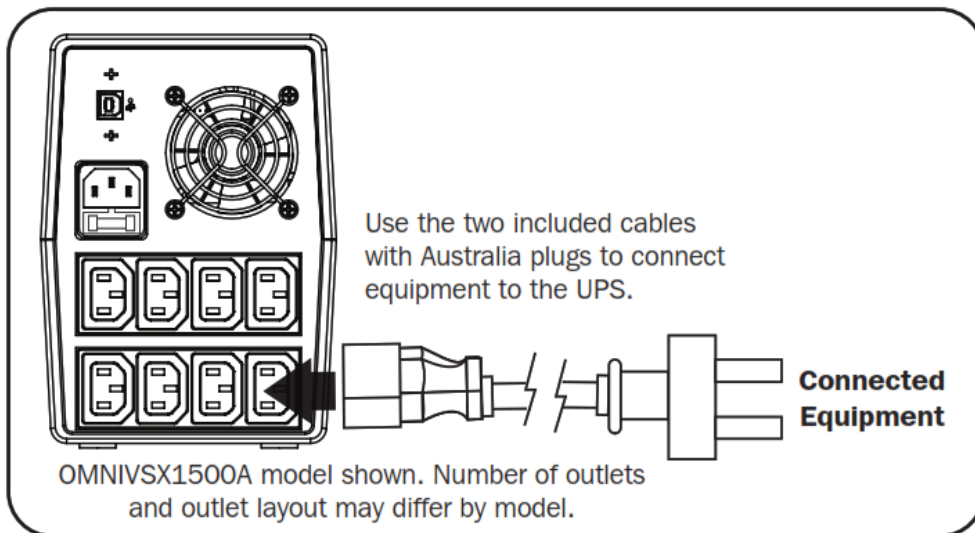


STEP 2: Plug your equipment into the UPS.

Outlets marked BATTERY & SURGE offer UPS battery backup support during power failures. Connect your vital computer equipment into these outlets.

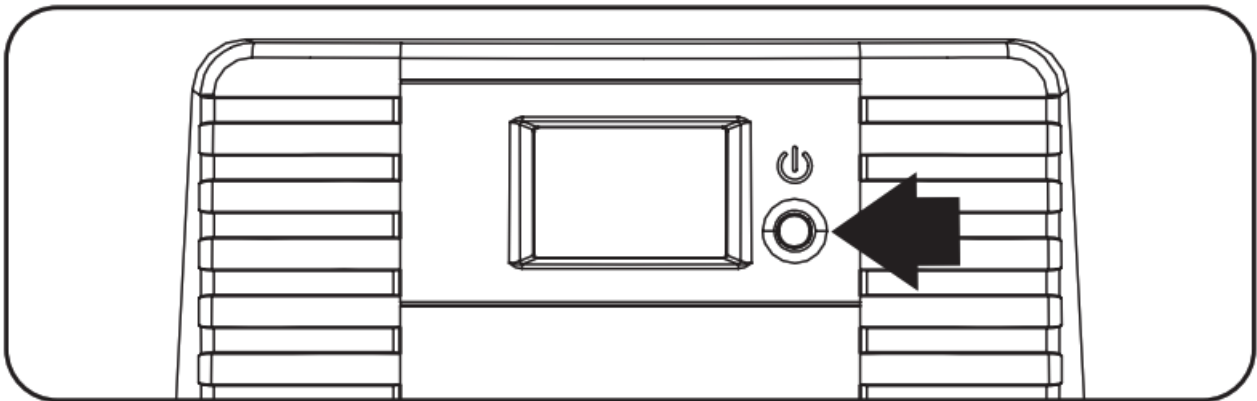
Your UPS is designed to support electronic equipment only. You will overload the UPS if the total volt-amp (VA) ratings for all the equipment connected to the BATTERY/SURGE PROTECTED outlets exceed the UPS output capacity. To find your equipment's VA ratings, look on their nameplates. If the equipment is listed in amps (A), multiply the number of amps by 230 to determine VA. For example:

$1A \times 230 = 230VA$. If you suspect you have overloaded the outlets, check Load Meter screens (see Display UPS/Power Conditions in Basic Operation).



STEP 3: Turn on the UPS.

After connecting your equipment to the UPS, press and hold the power button until a beep is heard, then release to turn on your UPS.



If the on-line AC power icon does not illuminate when the UPS is turned ON, try the following:

1. Make sure the UPS is plugged into a live AC outlet.
2. Press the power button to turn on the UPS. A beep should sound when the UPS starts.
3. If the UPS still does not start, contact Tripp Lite Tech Support for assistance.

Basic Operation

UPS ON/OFF

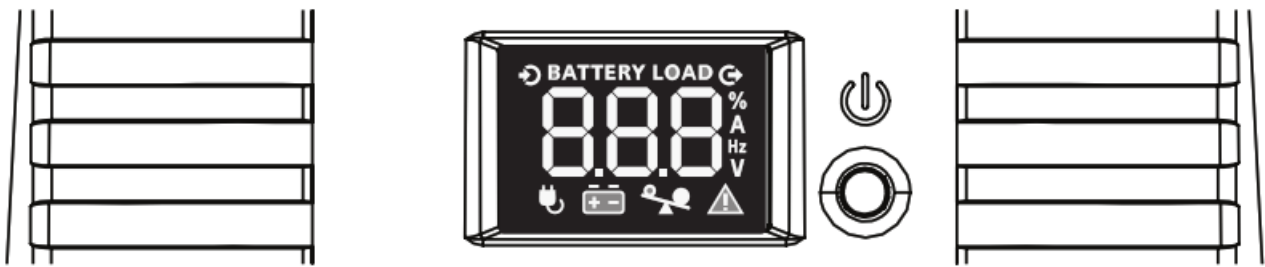
- Plug the UPS into a live, grounded outlet: The entire LCD screen will illuminate for 4 seconds, then the display will report the output voltage of "0V". BATTERY/SURGE PROTECTED outlets will be OFF. The battery charger will engage as necessary.
- Plug equipment into the UPS: You will overload the UPS if the total volt-amp (VA) ratings for all the equipment connected to the BATTERY/SURGE PROTECTED outlets exceed the UPS output capacity. To find your equipment's VA ratings, look on their nameplates. If the equipment is listed in amps (A), multiply the number of amps by 230 to determine VA. For example: $1A \times 230 = 230VA$.
- Turn the UPS on: Press and hold the power button until the alarm sounds, then release. The UPS alarm will

beep for 2 seconds. The BATTERY/SURGE PROTECTED outlets will begin passing AC line power. The UPS will automatically recharge internal batteries as needed. Once turned on, your UPS is ready to protect connected equipment from blackouts, brownouts, overvoltages and transient surges.

- Turn the UPS off: Press the power button.

Note: UPS system will function properly upon initial startup. However, maximum runtime for the unit's battery will only be accessible after it has been charged for 24 hours.

Display UPS/Power Conditions



On-Line AC Power Mode LCD Data

The LCD touchscreen offers five screens of UPS and site power information when the UPS is operating in line-power mode. Screens 1-4 (Output Voltage, Input Voltage, Load %, Battery Charge Level) are available for viewing in line-power mode. Press the front panel LCD to advance to the next screen. Screen 5 (Overload) is displayed automatically only when the UPS is loaded to levels greater than 110%.

The LCD screen reports that AVR (Auto Voltage Regulation) buck/boost circuits are active any time the line power icon is flashing. The LCD touchscreen offers five screens of UPS and site power information when the UPS is operating in line-power mode. Screens 1-4 (Output Voltage, Input Voltage, Load %, Battery Charge Level) are available for viewing in line-power mode. Press the front panel LCD to advance to the next screen. Screen 5 (Overload) is displayed automatically only when the UPS is loaded to levels greater than 110%.

The LCD screen reports that AVR (Auto Voltage Regulation) buck/boost circuits are active any time the line power icon is flashing.

1 Output Voltage



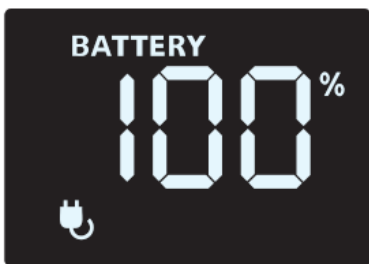
2 Input Voltage



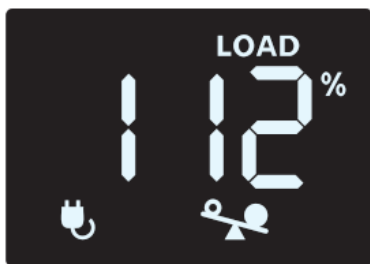
3 Load %



4 Battery Charge Level



5 Overload



Note: The LCD touchscreen automatically turns off in line-power mode 20 seconds after it was last touched. To re-activate the LCD for an additional 20 seconds, touch the screen.

Operating Mode		Alarm Description
Battery Mode	Normal	No Alarm
	Battery Low	Sounds Every Second
	Over Load	Sounds Every 0.5 Second
Line Mode	Normal	No Alarm
	Over Load	Sounds Every 0.5 Second
	Battery Replace	Sounds Every Minute
Fault Mode		Sounds Continuously

Battery Power Mode LCD Data

The LCD touchscreen offers five screens of UPS and site power information when the UPS is operating in line-power mode. Screens 1-4 (Output Voltage, Input Voltage, Load %, Battery Charge Level) are available for viewing in line-power mode. Press the front panel LCD to advance to the next screen. Screen 5 (Overload) is displayed automatically only when the UPS is loaded to levels greater than 110%.

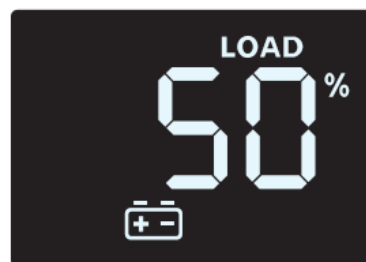
1 Output Voltage



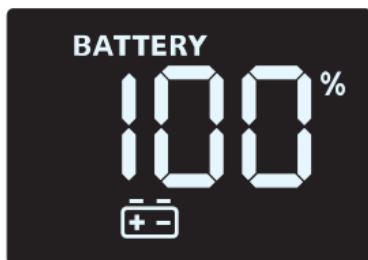
2 Input Voltage



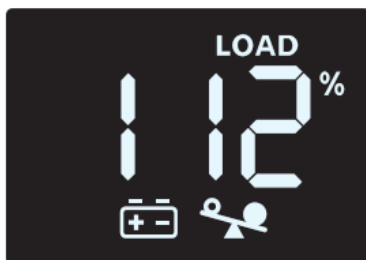
3 Load %



4 Battery Charge Level



5 Overload



Note: The touchscreen LCD will remain ON continuously during battery mode operation.

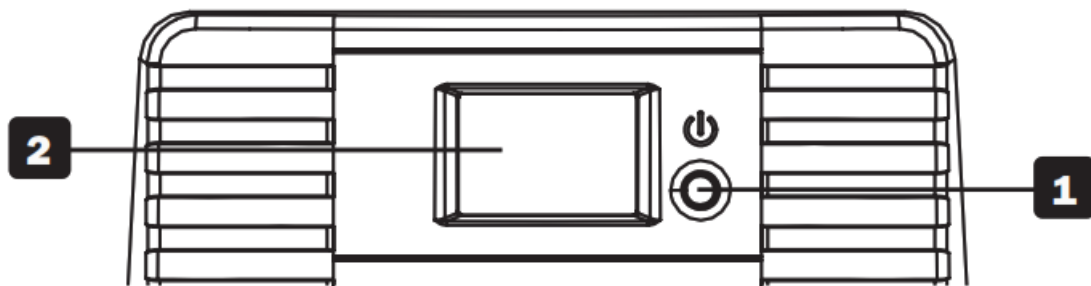
Critical Fault Screens



Error Code	Critical Fault	Solution
F01	OUTPUT SHORT	Disconnect load(s) from UPS outlets. Power off UPS and contact Tripp Lite Technical Support for assistance.
F02	OVER LOAD	Remove excess load, check load meter on LCD for load status.
F03	OVER CHARGE	Turn unit off, unplug UPS and contact Tripp Lite Technical Support for assistance.
F04	BATTERY LOW VOLTAGE	Charge UPS for 24 hours. If problem persists, replace battery and contact Tripp Lite Technical Support if problem persists.
F05	BATTERY MODE HIGH OUTPUT	Turn off power to the UPS and contact Tripp Lite Technical Support for assistance.

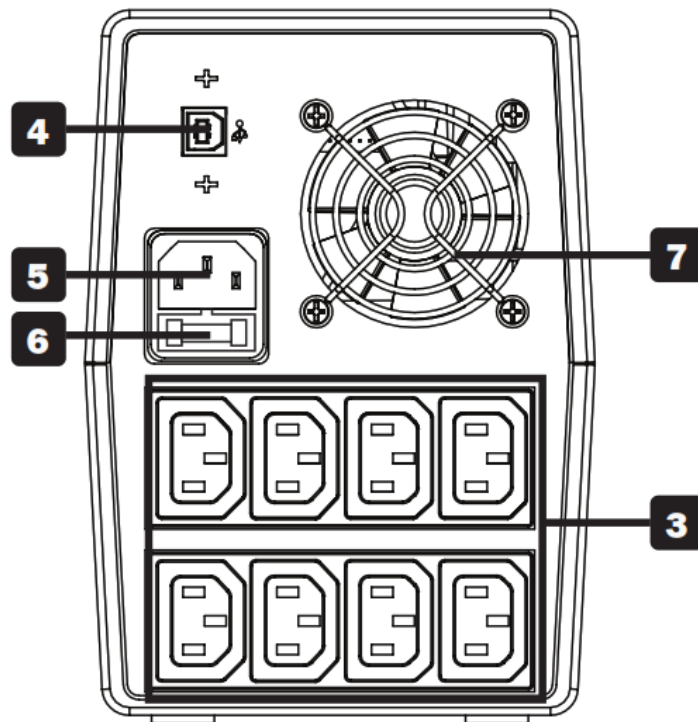
Features

Front Panel



1. ON/OFF Button: When the UPS is OFF, press and hold the ON/OFF button until a beep is heard to turn the UPS ON. When the UPS is ON, press and hold the ON/OFF button to turn the UPS OFF.
2. LCD Touchscreen Panel: Provide current status of the UPS. For a detailed description, refer to “Display UPS/Power Conditions” in the Basic Operation section.

Rear Panel



OMNIVSX1500A model shown. Number of outlets and outlet layout may differ by model.

3. Battery Backup/Surge Protected Outlets: These outlets offer battery backup support and premium surge suppression for critical devices requiring battery backup support.
4. USB Communication Port: This port can connect your UPS to any computer for automatic saves and unattended shutdown in the event of a power failure. Use with Tripp Lite's PowerAlert ® Software (available as a FREE download at tripplite.com) and the USB cable included with your UPS. This connection is optional; your UPS will work properly without this connection.
Note: This UPS System provides basic communication compatibility with most integrated Windows ® , Macintosh ® and Linux ® power management applications.
5. AC Power Input: Use the Australian power cord to connect the OMNIVSX850A / OMNIVSX1000A / OMNIVSX1500A to the main power source.
6. Replaceable Input Fuse: Protects your electrical circuit from overcurrent draw from the UPS load. If the fuse has blown, remove some of the load, then replace the fuse. The fuse is rated for 5A/250V AC for OMNIVSX850A and 10A/250V AC for OMNIVSX1000A / OMNIVSX1500A.
7. Variable-Speed Cooling Fan (OMNIVSX1500A only): This fan regulates the internal temperature of the UPS.


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 Instructions section for more information.

Models OMNIVSX850A and OMNIVSX1000A require one 12V DC, 9Ah replacement battery.

Model OMNIVSX1500A requires two 12V DC, 9Ah replacement batteries.

For further information about replacement compatibility and ordering, visit tripplite.com/products/battery-finder.

 Battery replacement must be done using the same battery type and quantity: 12V DC sealed lead-acid, 6-cell and in compliance with UL 1989.

 **CAUTION:** Risk of energy hazard. Before replacing batteries, remove conductive jewelry such as chains,

wristwatches and rings. High energy passing through conductive materials may cause severe burns.



CAUTION: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to instructions.

Storage and Service

Storage

To avoid battery drain, all connected equipment should be turned off and disconnected from the UPS. Press the power button and disconnect the unit from AC power. 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 the power button 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 tripplite.com/support. Before returning your product for service, follow these steps:

1. Review the installation and operation procedures in this manual to ensure 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 tripplite.com/support.
3. If the problem requires service, visit 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 authorised Tripp Lite service centre is not covered under warranty. Products shipped to Tripp Lite or an authorised Tripp Lite service centre 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.

Regulatory Compliance

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 marking name or model number of the product.

EMC Specifications for Models with EMC Category C2 Approval (Select Models):

WARNING: This is a category C2 UPS product. In a residential environment, this product may cause radio interference, in which case the user may be required to take additional measures.

WEEE Compliance Information for Tripp Lite Customers and Recyclers (European Union)



Under the Waste Electrical and Electronic Equipment (WEEE) Directive and implementing regulations, when customers buy new electrical and electronic equipment from Tripp Lite they are entitled to:
— olujSend old equipment for recycling on a one-for-one, like-for-like basis (this varies depending on the country)

- Send the new equipment back for recycling when this ultimately becomes waste

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

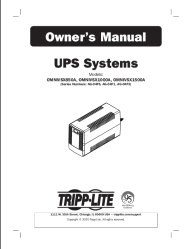
V : DC Voltage







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20-02-309 93-3C66_RevA

Documents / Resources

	<p>TRIPP LITE OMNIVSX850A Line Interactive UPS Systems [pdf] Owner's Manual OMNIVSX850A Line Interactive UPS Systems, OMNIVSX850A, Line Interactive UPS Systems, Interactive UPS Systems, UPS Systems</p>
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References

-  [Eaton - Power and Connectivity Solutions](#)
-  [UPS Battery Finder | Eaton](#)
-  [UPS Battery Finder | Eaton](#)
-  [UPS & Battery Recycling | Eaton](#)