



Tripp Lite OMNIVS800120V Input, Line Interactive UPS Systems Owner's Manual

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Owner's Manual
120V Input, Line-Interactive
UPS Systems
Models: OMNIVS800, OMNIVS1000 & OMNIVS1500XL*
***Extended runtime options**
Not suitable for mobile applications.

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OMNIVS800120V Input, Line Interactive UPS Systems

PROTECT YOUR INVESTMENT!

Register your product for quicker service and ultimate peace of mind.



You could also win an ISOBAR6ULTRA surge protector-a \$50 value!

www.tripplite.com/warranty



Important Safety Instructions

SAVE THESE INSTRUCTIONS

This manual contains instructions and warnings that should be followed during the installation, operation and storage of all Tripp Lite UPS Systems. Failure to heed these warnings may affect your warranty.

UPS Location Warnings

- Install your UPS indoors, away from excess moisture or heat, dust or direct sunlight.
- For best performance, keep the indoor temperature between 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.

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 use this equipment in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide.
- Do not connect surge suppressors or extension cords to the output of your UPS. This may damage the UPS and may affect the surge suppressor and UPS warranties.

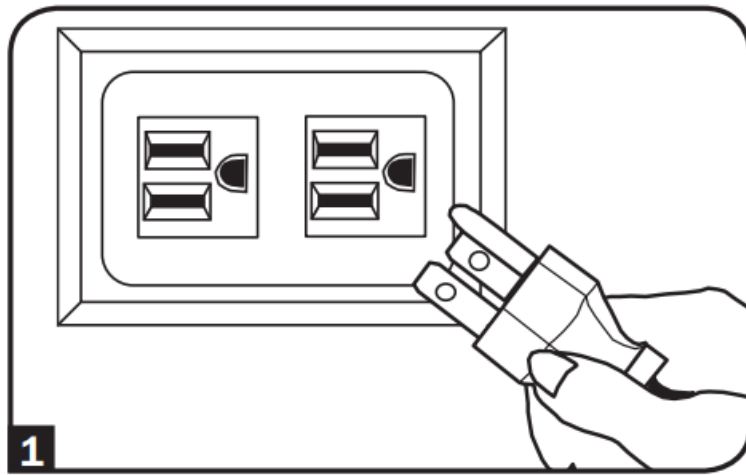
Battery Warnings

- 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 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 www.tripplite.com/UPSbatteryrecycling 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 www.tripplite.com/support/battery/index.cfm to locate the specific replacement battery for your UPS.
- Do not attempt to add external batteries unless your UPS includes external battery connectors.

Quick Installation

1. Plug the UPS into an outlet.

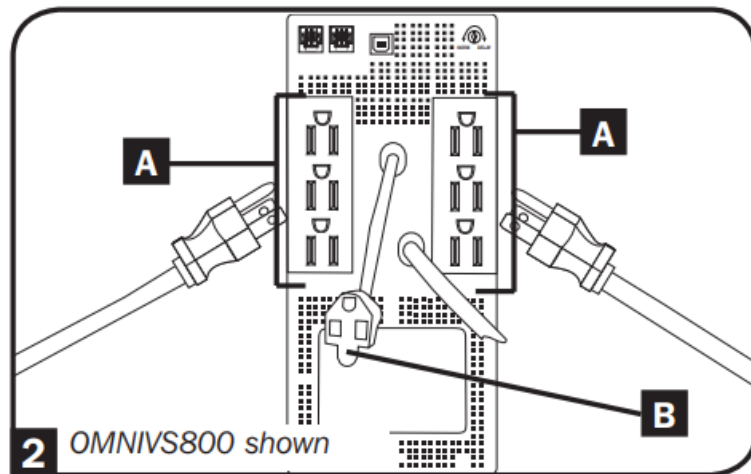
NOTE! after you plug the UPS into a live AC outlet, the UPS will turn ON automatically. See "ON/OFF" Button description in the Basic Operation section if you want to place the UPS in any mode other than **ON**.



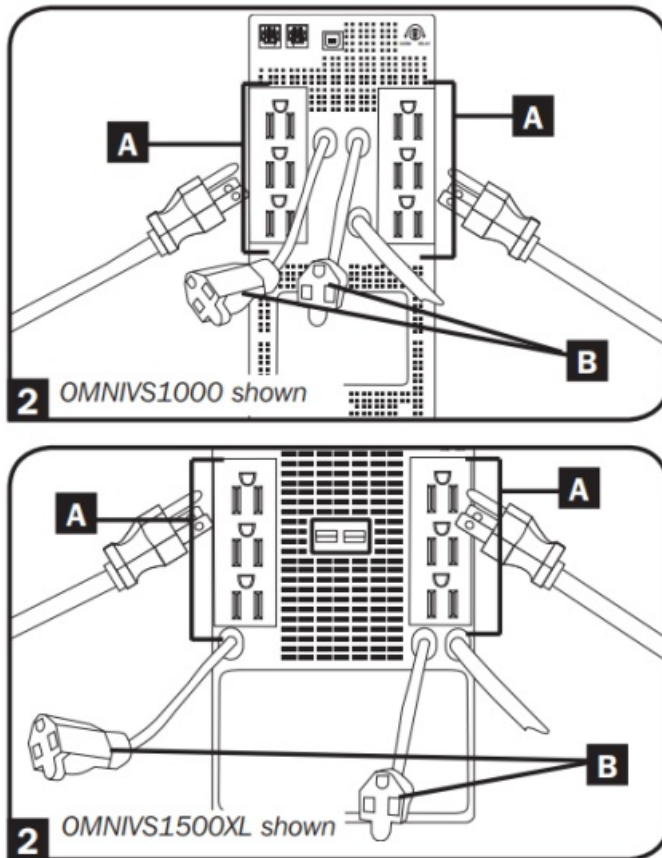
Note: UPS system will function properly upon initial startup; however, maximum runtime for the unit's battery will only be accessible after it has been charged for 24 hours.

2. Plug your equipment into the UPS.

The A outlets will provide battery backup and surge protection; plug your computer, monitor and other critical devices here.* The B outlets will provide surge protection only; plug your printer and other non-essential devices here.



* Your UPS is designed to only support computer equipment. You will overload the UPS if the total VA ratings for all the equipment you connect to the (A) outlets exceeds the UPS's Output Capacity (see Specifications). To find your equipment's VA ratings, look on their nameplates. If the equipment is listed in amps, multiply the number of amps by 120 to determine VA. (Example: 1 amp \times 120 = 120 VA). If you are unsure if you have overloaded the (A) outlets, run a self-test (see "MUTE/TEST" Button description).

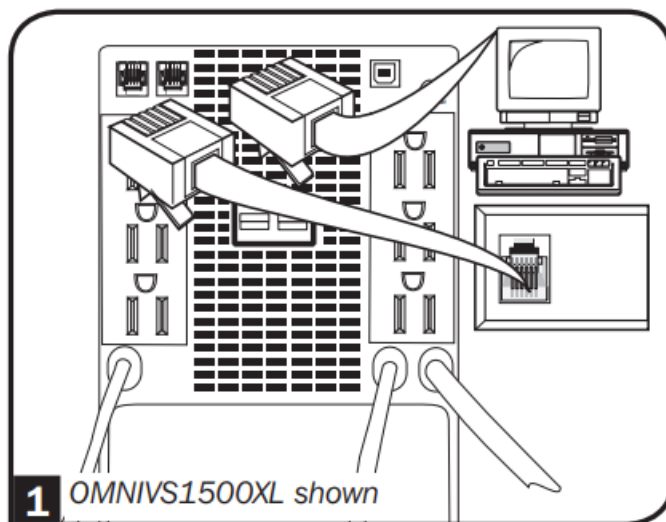


Optional Installation

These connections are optional. Your UPS will function properly without these connections.

1. Phone Line or Phone/Network Line Surge Suppression

Your UPS has jacks which protect against surges on a phone line. Select models feature jacks which also protect against surges on a network line. Using appropriate telephone or network cords, connect your wall jack to the UPS jack marked “IN.” Connect your equipment to the UPS jack marked “OUT.” Make sure the equipment you connect to the UPS’s jacks is also protected against surges on the AC line. Not compatible with PoE (Power over Ethernet) applications.



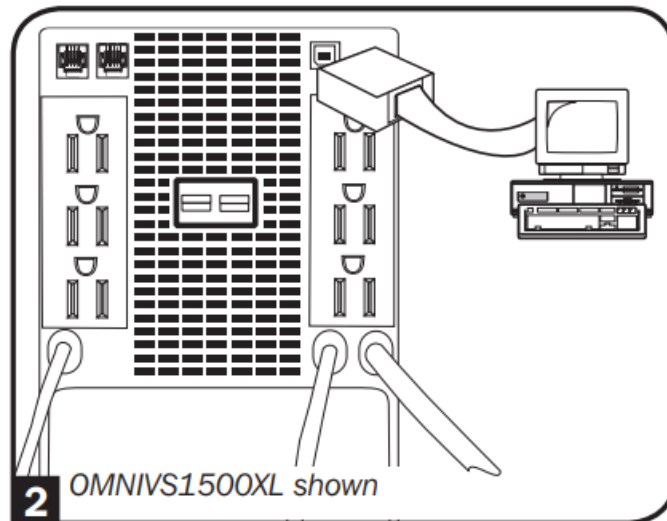
2. USB or DB9 Communication Port (select models only):

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 and appropriate USB or DB9 cable. A

PowerAlert CD and USB or DB9 cable may be included with your UPS; if so, insert the CD into the CD tray of your computer and follow the installation instructions. If PowerAlert Software and the appropriate cable did not come with your UPS, you can obtain the software FREE via the Web at www.tripplite.com.

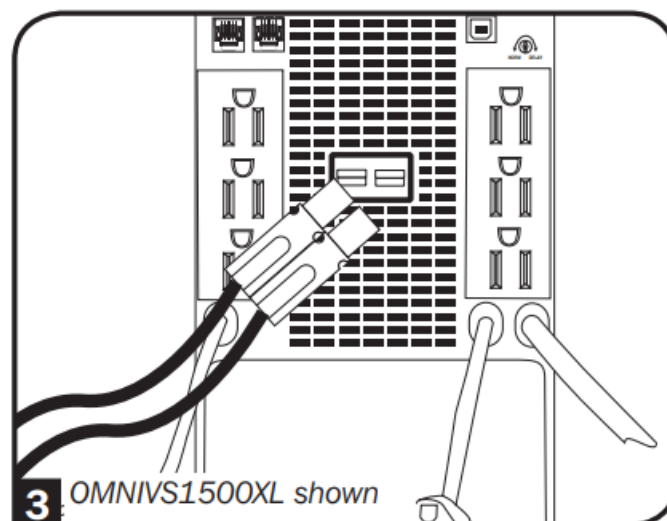
Any user-supplied DB9 pass-through or USB cable may then be used to connect your UPS to your computer.

NOTE: This connection is optional. The UPS will work properly without this connection.



3. External Battery Connection (select models)

All UPS models come with a robust internal battery system; select models feature connectors that accept an optional external battery pack (sold separately from Tripp Lite*) to provide additional runtime. Adding an external battery will increase recharge time as well as runtime. See battery pack owner's manual for complete installation instructions. Make sure cables are fully inserted into their connectors. Small sparks may result during battery connection; this is normal. Do not connect or disconnect battery pack when the UPS is running on battery power.



* See Specifications section for battery pack available for your specific UPS model.

Basic Operation

Buttons



“ON/OFF” Button

- **To turn the UPS ON:** if utility power is present, the UPS will turn ON automatically. If utility power is absent, you can “cold-start” the UPS (i.e.: turn it ON and supply power from its batteries*) by pressing and holding the

ON/OFF button for one second.**

- **To turn the UPS OFF:** first, unplug the UPS from the wall outlet; then press and hold the ON/OFF button for one second.** The UPS will be completely “OFF” (deactivated).
- **To place the UPS in “Charge-Only” Mode:** this mode enables battery charging, but disables battery backup.
WARNING: when the UPS is in this mode, it will not provide battery backup during a blackout or brownout. This mode is only recommended for use in areas that experience frequent blackout/brownout conditions and when connected equipment is not in use. Press and hold the ON/OFF button for four seconds to place the UPS in this mode.** Press and hold the ON/OFF button for one second** to take the UPS out of this mode.

*** If fully charged. ***

* The alarm will beep once briefly after the indicated interval has passed (with the exception of a continuous beep which signals transition to the “Charge-Only” Mode).



“MUTE/TEST” Button

To Silence (or “Mute”) UPS Alarms: briefly press and release the MUTE/TEST button. Note: continuous alarms (warning you to immediately shut down connected equipment) cannot be silenced.

To Run a Self-Test: with your UPS plugged in and turned ON, press and hold the MUTE/TEST button for two seconds. Continue holding the button until the alarm beeps several times and the UPS performs a self test. See “Results of a Self-Test” below. Note: you can leave connected equipment on during a self-test. Your UPS, however, will not perform a self-test if you have placed it in “Charge-Only” mode (see “ON/OFF” Button description).

CAUTION! Do not unplug your UPS to test its batteries. This will remove safe electrical grounding and may introduce a damaging surge into your network connections.

Results of a Self-Test: The test will last approximately 10 seconds as the UPS switches to battery to test its load capacity and charge. All LEDs will be lit and the UPS alarm will sound.

- If the “OVERLOAD” LED remains lit and the alarm continues to sound after the test, the battery-supported outlets are overloaded. To clear the overload, unplug some of your equipment from the battery-supported outlets and run the self-test repeatedly until the “OVERLOAD” LED is no longer lit and the alarm is no longer sounding.

CAUTION! Any overload that is not corrected by the user immediately following a self-test may cause the UPS to shut down and cease supplying output power in the event of a blackout or brownout.

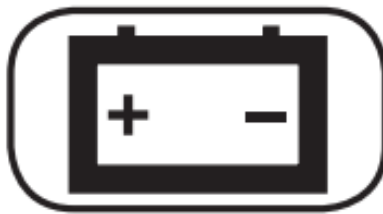
- If the “REPLACE BATTERY” LED remains lit and the alarm continues to sound after the test, the UPS batteries need to be recharged or replaced. Allow the UPS to recharge continuously for 12 hours, and repeat the self-test. If the LED stays continuously lit, contact Tripp Lite for service. If your UPS requires battery replacement, visit www.tripplite.com/support/battery/index.cfm to locate the specific Tripp Lite replacement battery for your UPS.

Indicator Lights

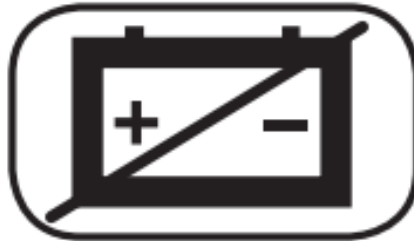
All Indicator Light descriptions apply when the UPS is plugged into an AC outlet and turned on.



“LINE POWER” LED: this green LED lights continuously to indicate that the UPS is ON and supplying your equipment with AC power from a utility source. The LED flashes to remind you that you have used the ON/OFF button to place the UPS in “Charge-Only” mode.



“BATTERY POWER” LED: this yellow LED flashes and an alarm sounds (4 short beeps followed by a pause) to indicate the UPS is operating from its internal batteries. During a prolonged brownout or blackout, this LED and the “REPLACE BATTERY” LED will light continuously and an alarm will sound continuously to indicate the UPS’s batteries are nearly out of power; you should save files and shut down your equipment immediately.



“REPLACE BATTERY” LED: this red LED lights continuously and an alarm sounds after a self-test to indicate the UPS batteries need to be recharged or replaced. Allow the UPS to recharge continuously for 12 hours, and repeat the self-test. If the LED stays continuously lit, contact Tripp Lite for service. If your UPS requires battery replacement, visit www.tripplite.com/support/battery/index.cfm to locate the specific Tripp Lite replacement battery for your UPS.



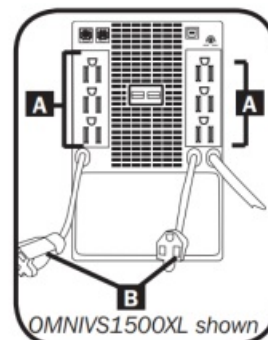
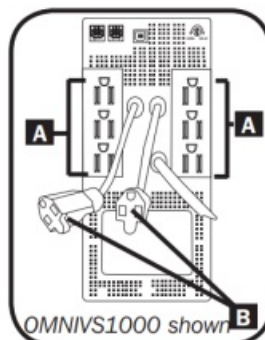
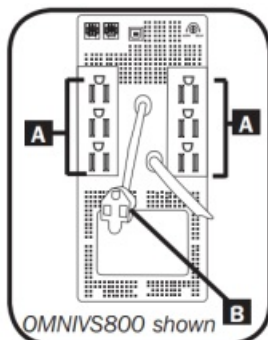
“OVERLOAD” LED: this red LED lights continuously and an alarm sounds after a self-test to indicate the battery-supported outlets are overloaded. To clear the overload, unplug some of your equipment from the battery-supported outlets and run the self-test repeatedly until the LED is no longer lit and the alarm is no longer sounding.

CAUTION! Any overload that is not corrected by the user immediately following a self-test may cause the UPS to shut down and cease supplying output power in the event of a blackout or brownout.



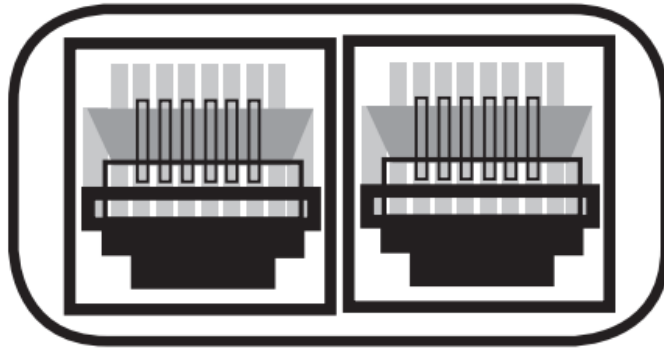
“VOLTAGE CORRECTION” LED (select models only): Lights green whenever your UPS is automatically correcting high or low AC line voltage. The UPS will also click gently. These are normal, automatic operations of your UPS, and no action is required on your part.

Other UPS Features

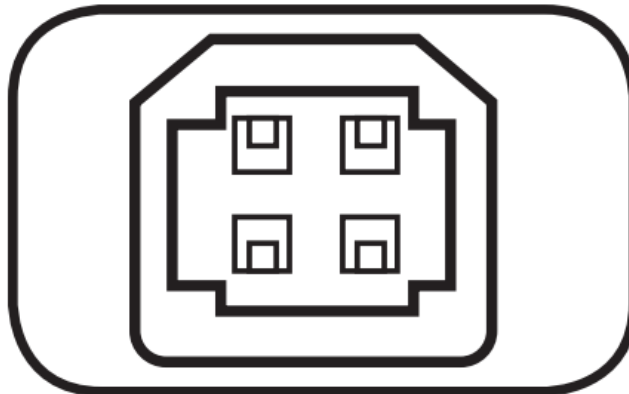


AC Outlets: the A outlets will provide battery backup and surge protection; plug your computer, monitor and other critical devices here. The B outlets will provide surge protection only; plug your printer and other non-essential devices here. Your UPS is designed to only support computer equipment. You will overload the UPS if the total VA ratings for all the equipment you connect to the A outlets exceeds the UPS’s Output Capacity (see Specifications).

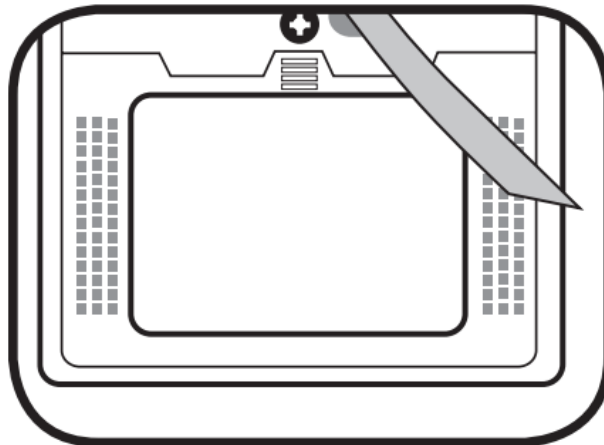
If you are unsure if you have overloaded the “MUTE/TEST” Button description). A outlets, run a self-test (see “MUTE/TEST” Button description).



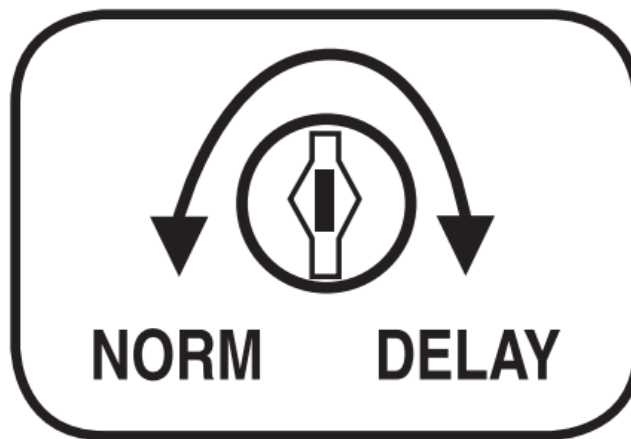
Telephone or Telephone/Network Protection Jacks: These jacks protect your equipment against surges over a telephone line or telephone/network data line, depending on model. Connecting your equipment to these jacks is optional. Your UPS will work properly without this connection.



USB Port: The USB port connects your UPS to any USB workstation or server. Using this port, your UPS can communicate line-fail and lowbattery status. Use with Tripp Lite software and any USB cable to automatically save open files and shut down equipment during a blackout. Contact Tripp Lite Customer Support or consult your power protection software manual for more information.

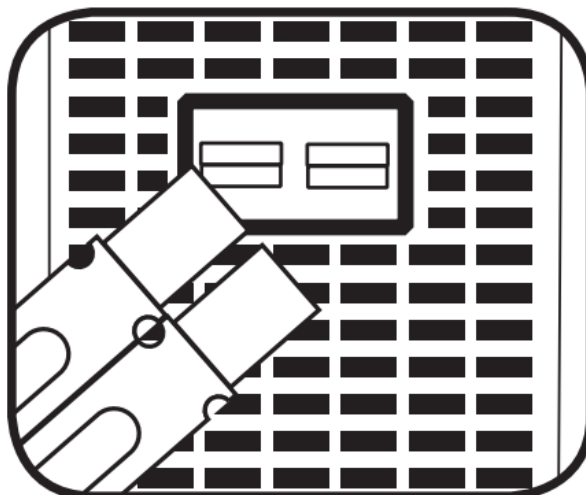


Battery Replacement Door: Under normal conditions, the original battery in your UPS will last several years. Battery replacement should be performed only by qualified service personnel. Refer to “Battery Warnings” in the Safety section. Should your UPS require battery replacement, visit Tripp Lite on the Web at www.tripplite.com/support/battery/index.cfm to locate the specific replacement battery for your UPS.



Power Sensitivity/Lowline Adjustment: This dial is normally set fully counterclockwise, 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 sinewave 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 for this dial. As the dial is turned clockwise, the UPS becomes more tolerant of variations in its input power's AC waveform and reduces the voltage point at which it switches to battery.

NOTE: The further the dial is adjusted clockwise, the greater the degree of waveform distortion and the lower the input voltage the UPS will allow to pass to connected equipment. When experimenting with different settings for this dial, 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.



External Battery Connector (Select Models Only): Use to connect a single Tripp Lite external battery pack for additional runtime. The specifications section of this manual lists the Tripp Lite external battery pack that is compatible with select models. Refer to instructions available with the battery pack for complete connection information and safety warnings.

Specifications

| Model: Series: | OMNIVS800 AGOM1000USBKSR6 | OMNIVS1000 AGOM1000USBKSR6 |
|--|------------------------------|-------------------------------|
| Input Voltage/Frequency: | 120VAC / 60 Hz | 120VAC / 60 Hz |
| On-Line Input Voltage Range: | 83 – 132 volts | 83 – 132 volts |
| Output Capacity (VA/Watts): | 800/475 | 1000/500 |
| Battery Runtime (Half Load/Full Load) Minutes: | 19/6 | 18/5 |
| Battery Recharge Time: | 2 – 4 hrs. | 2 – 4 hrs. |
| Approvals: | UL, cUL, NOM, FCC-B | UL, cUL, NOM, FCC-B |
| Tel/Fax/Data Protection: | 1-line Tel/DSL | 1-line Tel/DSL |

Output Voltage Line Mode (120VAC); Output Voltage On Battery (115VAC). Output Waveform Line Mode (filtered sine wave); Output Waveform Battery Mode (PWM sine wave); AC Surge Suppression (exceeds IEEE 587 Cat. A & B standards); AC Noise Attenuation (>40 dB at 1MHz); AC Protection Modes (H to N, H to G, N to G).
+ Battery runtime for OMNIVS1500XL can be extended with the addition of a single optional Tripp Lite External Battery Pack which is not expandable (model #: BP24V14, sold separately). An External Battery will increase both the battery runtime and the battery recharge time.

Storage & Service

Storage

All connected equipment should be turned off, then disconnected from the UPS to avoid battery drain. Unplug the UPS from the wall outlet; then press and hold the ON/OFF button for one second. The UPS will be completely "OFF" (deactivated). Your UPS is now ready for storage. If you plan on storing your UPS for an extended period of time, fully recharge the UPS batteries once every three months by plugging the UPS into a live AC outlet and letting the UPS charge for 4 to 6 hours. If you leave your UPS batteries discharged for an extended 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. 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.
3. If the problem requires service, visit 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.

Warranty Registration

WARRANTY REGISTRATION

Visit www.tripplite.com/warranty today to register the warranty for 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.

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.

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 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.


CONSUMER INFORMATION AND FCC REQUIREMENTS (U.S. only):

1. This equipment complies with Part 68 of the FCC rules. On the top or bottom of this equipment is a label that contains, among other information, the FCC registration number for this equipment. If requested, provide this information to your telephone company.
2. If your Fax/Modem Protector causes harm to the telephone network, the telephone company may temporarily discontinue your service. If possible, they will notify you in advance. But 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.
3. Your telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of your equipment. If they do, you will be given advance notice so as to give you an opportunity to maintain uninterrupted service.
4. If you experience trouble with this Fax/Modem Protector, please visit 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 that the equipment is not malfunctioning.
5. 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 for information.)

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

Note on Labeling

Two symbols are used on the label.

V  : AC Voltage

V  : DC Voltage

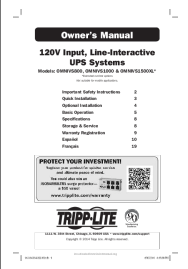


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Documents / Resources



Owner's Manual
120V Input, Line-Interactive UPS Systems
OMNIVS800120V Input Line Interactive UPS Systems, OMNIVS800120V, Input Line Interactive UPS Systems, Interactive UPS Systems, UPS Systems, Systems

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OMNIVS800120V Input Line Interactive UPS Systems, OMNIVS800120V, Input Line Interactive UPS Systems, Interactive UPS Systems, UPS Systems, Systems

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