

Owner's Manual

BP Series External Battery Packs

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Introduction

Tripp Lite BP Series External Battery Packs have output voltages of either 24, 36, 48, 72 or 240 DC volts and are designed for use with various Tripp Lite UPS systems equipped with external battery pack connectors.

Important Safety Instructions— Save These Instructions



WARNING! The mounting shelves are not intended to support more than one battery pack. Do not stack multiple battery packs on a single set of mounting shelves. Failure to follow this warning may lead to product damage and/or a risk of personal bodily harm.

- **Use caution when lifting battery packs. Because of the considerable weight of all battery packs, at least two people should assist in lifting and installing them.**
- **Make certain that your battery packs and UPS use the same DC voltage before connecting them.**
- Suggested mounting procedures are for common rack types and may not be appropriate for all rack configurations. User must determine the fitness of rack and wallmount hardware and procedures before mounting.
- When connecting multiple battery packs to a single UPS, the battery packs should be approximately the same age.
- It is normal for sparks to occur when connecting external batteries.
- Do not unplug external batteries from the UPS while the UPS is operating on battery power, due to the possibility of dangerous arcing.
- There are no user-serviceable parts inside the battery packs. Do not open the battery packs for any reason.
- Battery replacement must be performed by factory authorized service personnel. Because batteries present a risk of electrical shock and burn from high short-circuit current, observe proper precautions. Unplug the battery pack from the UPS before performing battery replacement. Do not short or bridge battery terminals with any object. Use tools with insulated handles. Remove metal objects such as watches and rings before working with batteries. Do not open batteries. Replace batteries only with sealed lead-acid batteries of the same number, type, voltage and amp-hour capacity.
- Do not dispose of the batteries in a fire. The UPS batteries are recyclable. Refer to local codes for disposal requirements, or in the USA only, refer to these sources for recycling information: 1-800-SAV-LEAD (1-800-728-5323), 1-800-8-BATTERY (1-800-8-228-8379), or www.rbr.com.

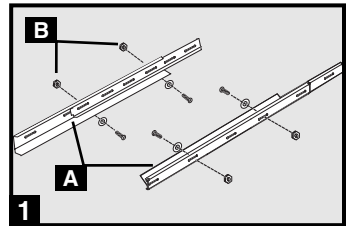
Mounting (Rack)

Mount your rackmount battery pack in either a 4-post or 2-post rack or rack enclosure (see next page for 2-post mounting). The user must determine the fitness of hardware and procedures before mounting. If hardware and procedures are not suitable for your application, contact the manufacturer of your rack or rack enclosure. The procedures described in this manual are for common rack and rack enclosure types and may not be appropriate for all applications.

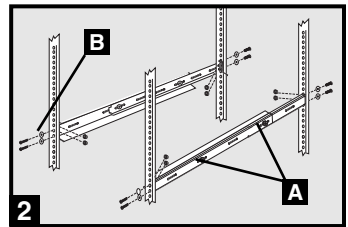
4-Post Mounting

All rackmount battery packs include hardware required to mount in a 4-post rack. Select models include an adjustable rackmount shelf kit to provide additional support. **If your rackmount battery pack model does not include an adjustable rackmount shelf kit, skip steps 1 and 2.**

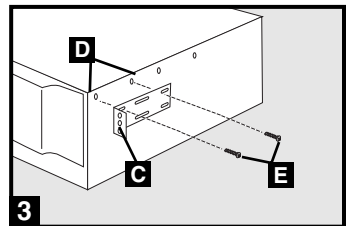
- 1** Connect the two segments of each shelf **A** using the included screws and nuts **B**. Leave the screws slightly loose so that the shelves can be adjusted in the next step.



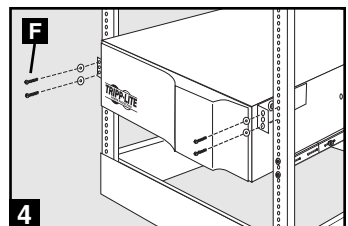
- 2** Adjust each shelf to fit your rack, then mount them in the lowest available space of your rack with the screws, nuts and washers provided **B**. Note that the support ledges should face inward. Tighten the screws that connect the shelf segments **A**.



- 3** Attach mounting ears **C** to the front mounting holes of your equipment **D** using the screws provided **E**. The ears should face forward.



- 4** Using an assistant if necessary, lift your equipment and slide it onto the mounting shelves. Attach your equipment to the rack by using the appropriate hardware **F** through its mounting ears and into the rack rails.

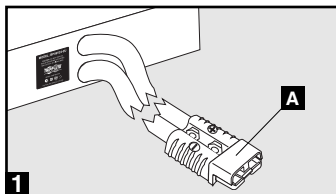


2-Post (Telecom) Mounting

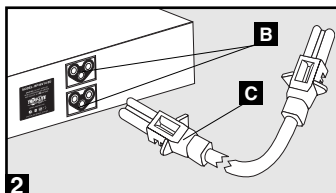
If you mount rackmount battery packs in 2-post racks, they require the addition of a Tripp Lite 2-Post Rackmount Installation Kit (model: 2POSTRMKIT, sold separately). See Installation Kit owner's manual for installation procedure for rackmount battery packs.

Connection

1 Select battery packs have a polarized plug **A** on an output cord permanently connected to the rear panel. Simply plug the output cord directly into the external battery connector of your UPS. (See your UPS manual for external battery connector description and location.) Note that only one of these battery packs is generally connected to a UPS at one time. For longer runtime, you may connect two to a single UPS using a Y-Adapter Cable sold separately by Tripp Lite, or use one or more Tripp Lite Battery Packs with daisy-chain capability.



2 Select battery packs feature dual input/output receptacles on their rear panels **B**. To connect to a UPS, insert one end of the detachable power cable **C** into either plug on the rear of the battery pack and the cable's other end into the external battery connector of your UPS. (See your UPS manual for external battery connector description and location.) To connect multiple battery packs to a single UPS for greatly increased runtime, connect the output of the first battery pack to the UPS's external battery connector, then "daisy chain" the others: connect an input/output plug on the second battery pack to an input/output plug on the first, a plug on third to a plug on the second and so on. Note that multiple battery pack arrays will provide longer runtimes, but will also require longer recharge times.



Maintenance

Battery packs require no maintenance but should be kept dry at all times. Avoid installation in locations with high heat and/or humidity. The battery packs should be kept fully charged by being connected to an active UPS system, not left in a depleted condition. Batteries left in a discharged state will suffer a permanent loss of capacity.

Troubleshooting

There is a fuse array inside the battery packs. If a heavy overload or short circuit is encountered, a fuse will open (blow). A battery pack with a blown fuse will deliver no output voltage at any load. A qualified technician must replace the fuses. Contact Tripp Lite Customer Support for additional information.

Internal Battery Replacement

The batteries in the battery packs will eventually wear out and be unable to provide adequate backup times. The batteries should only be replaced by factory authorized service personnel. Tripp Lite offers an exchange program for North American customers wherein they may exchange worn-out battery packs for new ones at a price comparable to the cost of individual battery replacement. For more details, call Tripp Lite at (773) 869-1234.

Storage

Disconnect your battery pack's power cable before storing. If you plan to store your battery pack for an extended period of time, fully recharge its batteries every three months by connecting it to a UPS that is connected to AC input for at least 12 hours.

Service

Before returning your battery pack for service, follow these steps:

1. Review the installation and operation instructions 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 battery pack to the dealer. Instead, call Tripp Lite at (773) 869-1233. A service technician will ask for the battery pack's model number, serial number and purchase date and will attempt to correct the problem over the phone.
3. If the problem requires service, the technician will issue you a Returned Material Authorization (RMA) number, which is required for service. If you require packaging, the technician can arrange to send you proper packaging. Securely pack the battery pack to avoid damage during shipping. Do not use Styrofoam beads for packaging. Any damages (direct, indirect, special, incidental or consequential) to the battery pack incurred during shipment to Tripp Lite or an authorized Tripp Lite service center is not covered under warranty. Battery packs 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 battery pack is within the 2-year warranty period, enclose a copy of your sales receipt. Return the battery pack for service using an insured carrier to the address given to you by the Tripp Lite service technician.

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.

2-Year Limited Warranty

Seller warrants this product, if used in accordance with all applicable instructions, to be free from original defects in material and workmanship for a period of 2 years from the date of initial purchase. If the product should prove defective in material or workmanship within that period, Seller will repair or replace the product, in its sole discretion.

Customers in the United States may obtain service under this Warranty only by delivering or shipping the product (with all shipping or delivery charges prepaid) to: Tripp Lite, 1111 W. 35th Street, Chicago, IL 60609. Seller will pay return shipping charges. Call Tripp Lite at (773) 869-1234 before sending any equipment back for repair.

Customers in Mexico may obtain service under this Warranty only by delivering or shipping the product (with all shipping or delivery charges prepaid) to an authorized service center. In Mexico City, the authorized service center is Q Plus Mexico, shipping address Avenida de Oyoacan #981, 29, Col. de Valle, Mexico City; call Q Plus at (5) 559-3022 before sending any equipment back for repair. Customers elsewhere in Mexico may visit Tripp Lite's web page (www.tripplite.com) to find the address and telephone number of the nearest authorized service center.

Customers in Canada may obtain service under this Warranty only by delivering or shipping the product (with all shipping or delivery charges prepaid) to an authorized service center. Canadian customers may visit Tripp Lite's web page (www.tripplite.com) to find the address and telephone number of the nearest authorized service center.

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Tripp Lite; 1111 W. 35th Street; Chicago, IL 60609

WARNING: The individual user should take care to determine prior to use whether this device is suitable, adequate and safe for the use intended. Since individual applications are subject to great variation, the manufacturer makes no representation or warranty as to the suitability or fitness of these devices for any specific application.

Tripp Lite's policy is one of continuous improvement. Specifications are subject to change without notice.