



USER MANUAL
EXTENDED BATTERY MODULES
BP72V-SP2U | BP48V-SP2U | BP24V-SP2U

www.bxterra.com

INTRODUCTION

Thank you for choosing a bXterra Extended Battery Module (EBM). The bXterra BP24V-SP2U, BP48V-SP2U and BP72V-SP2U Extended Battery Modules, or battery packs, are designed for use with the bXterra SP series of Line-Interactive UPS systems equipped with external battery pack connectors.

PRODUCT REGISTRATION

This bXterra product is constructed to provide unmatched power protection, quality and performance for the duration of its lifetime. Please take a few minutes to register your new product at www.bxterra.com/ registration. Registration certifies your product's warranty, confirms your ownership in the event of a product loss or theft and entitles you to free technical support. Please register your product now to receive the benefits of bXterra ownership.

SAFETY

SAVE THESE INSTRUCTIONS: This manual contains important instructions that should be followed during installation and maintenance of the EBM.

- **WARNING!** The mounting shelves are not intended to support more than one EBM. Do not stack multiple battery packs on a single set of mounting shelves. Failure to follow this warning may lead to product damage and the risk of physical injury.
- This unit is intended for installation in a controlled environment (a temperature-controlled and indoor area free of conductive contaminants). Please avoid installing the UPS and EBM in locations where there is standing or running water, dust, direct sunlight or excessive humidity.
- 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.
- Be sure that the battery packs and UPS system use the same DC voltage before connecting them.
- Use of this EBM in life-support equipment or situations is not recommended. bXterra does not sell equipment meant for life-support or medical applications.
- When connecting multiple EBMs to a single bXterra UPS, the battery packs should be approximately the same age.
- The suggested mounting procedures in this manual are for common rack types and may not be appropriate for all rack configurations. The user must determine the appropriate mounting hardware and procedures before mounting the EBM.
- Do not unplug EBMs from the UPS while the UPS is on battery power, due to the possibility of dangerous arcing and shock.
- It is not unusual for sparks to occur when connecting external batteries.
- As defined in the Protection of Information Technology Equipment ANSI/NFPA 75, this EBM is not for use in a computer room. (US installations only). Contact bXterra to order a special battery kit if needed to meet the ANSI/NFPA 75 requirement.

Servicing of batteries should be performed or supervised by personnel knowledgeable about batteries and the required precautions. When replacing batteries, replace with the same type and number of batteries or battery packs.

CAUTION: The battery pack can energize hazardous live parts inside the UPS even when the AC input power to the UPS is disconnected.

CAUTION: Do not dispose of batteries in a fire. The batteries may explode.

CAUTION: Do not open or mutilate batteries. Released electrolytes are harmful to the skin and eyes. It may be toxic.

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:

- a) Remove watches, rings or other metal objects
- b) Use tools with insulated handles
- c) Wear rubber gloves and boots
- d) Do not lay tools or metal parts on top of batteries
- e) Disconnect charging source and load prior to installing or maintaining the battery
- f) 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.

CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. Visit www.bxterra.com for information on the specific replacement battery type for your UPS or EBM.

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 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 an experienced radio/TV technician for help.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

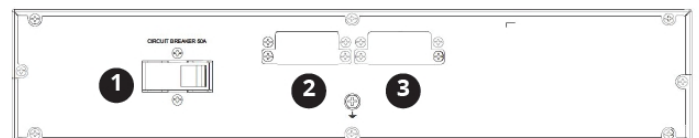
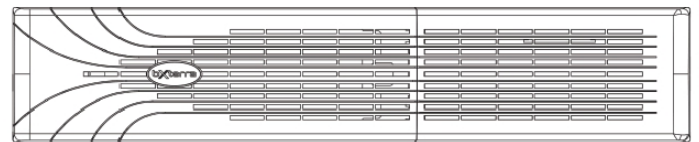
WHAT'S IN THE BOX

Remove the EBM from its package and inspect it for damage that may have occurred during shipping. If any damage is discovered, repack the unit and return it to the place of purchase.

The following items are inside the box:

- Extended Battery Module
- User Manual
- Battery Cable to Connect to UPS or Another EBM
- Ear Racks x 2
- Ear Rack Screws x 8
- Tower Stand Extenders x 4
- Extender Screws x 4

PRODUCT OVERVIEW



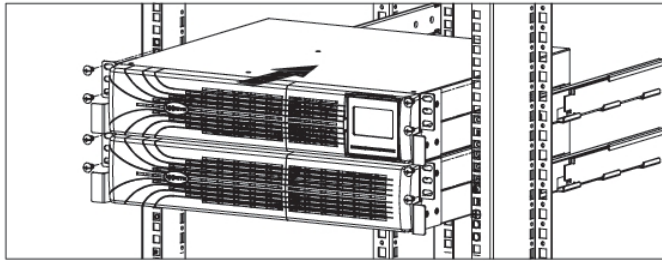
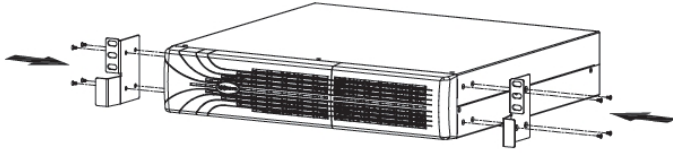
- 1 Circuit Breaker
- 2 Battery Output
- 3 Battery Input

INSTALLATION AND OPERATION

Rack-mount Installation

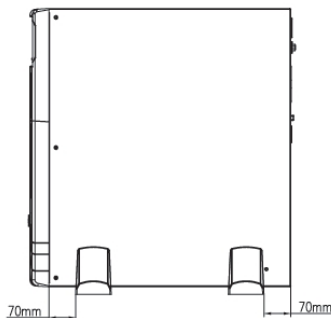
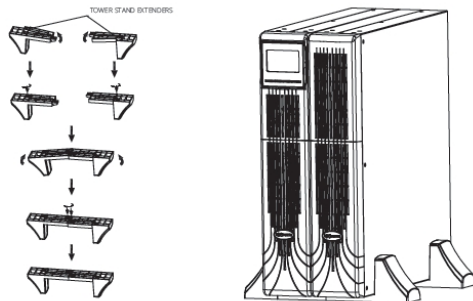
CAUTION - Do NOT use the mounting brackets to lift the unit. The mounting brackets are only for securing the unit to the rack.

Install UPS and EBM



Tower Installation

Install UPS and EBM in tower mode



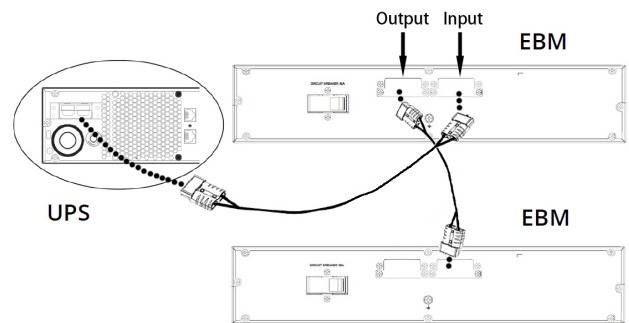
NOTE: When setting up the UPS and/or EBM with feet, please ensure the feet are installed a 70mm distance away from the edge of the unit.

CONNECTION INSTRUCTIONS

To connect the EBM:

1. Turn off the utility power to the UPS
2. Open the front-left cover on the UPS and disconnect the internal batteries.
3. Remove the EBM-terminal covers from the UPS and the EBM and connect one end of the external-battery cable to the UPS and one end to the INPUT Port on battery module as shown in the figure below.
 - If connecting more than one external battery, connect one end of the external battery cable to the OUTPUT port on the EBM, then connect the other end to the INPUT port on the next EBM as shown in the figure below.
4. Once the UPS and EBM(s) are connected, secure the connection with the screws, reconnect the internal batteries, and replace the front-left covers on the units

Connect one end of the external battery cable to the UPS unit and the other end to the INPUT port on the EBM. See the picture below for detailed instructions.



CAUTION: Connection to an external battery should be installed by service personnel only.

NOTE: After install and initial start-up, set the number of installed EBM in the UPS Settings. Instructions for this process is in the manual for your UPS system.

NOTE: When two or more EBMs are used with 1000/2200/3000 models, the UPS load rating is decreased by 20%.

MAINTENANCE

To store the EBM for a long period of time, cover it and make sure the batteries are fully charged. Keeping the battery packs in a depleted condition will leave them with a permanent loss of capacity. The battery packs should be charged every three months by connecting it to AC input for at least 12 hours. The battery packs should always be kept dry and away from locations with high heat and/or humidity. Do not dispose of batteries in a fire.

Please recycle your batteries. Refer to local regulations for disposal requirements or if you are in the USA, please call 1-877-723-1297 or visit www.call2recycle.org for more information about recycling your

TECHNICAL SPECIFICATIONS

MODEL	BP24V-SP2U	BP48V-SP2U	BP72V-SP2U
UPS Model	SP1000LCDRTXL2U	SP1500LCDRTXL2U	SP2200LCDRTXL2U, SP3000LCDRTXL2U
Circuit Breaker	50Amp	50Amp	50Amp
Battery Size	12V/9Ah	12V/9Ah	12V/9Ah
Battery Quantity	4	8	12
DC System Voltage (VDC)	24VDC	48VDC	72VDC
Rack Size	2U	2U	2U
Form Factor	Rack/Tower	Rack/Tower	Rack/Tower
Dimensions (in)	17.24 x 3.46 x 16.14	17.24 x 3.46 x 20.08	17.24 x 3.46 x 24.80
Weight (lbs)	37.70	63.93	90.83
Operating Temperature	32°F to 104°F / 0°C to 40°C	32°F to 104°F / 0°C to 40°C	32°F to 104°F / 0°C to 40°C
Storage Temperature	-13°F to 113°F / -25°C to 50°C	-13°F to 113°F / -25°C to 50°C	-13°F to 113°F / -25°C to 50°C
Operating Humidity	0-95%RH@0-40°C (Non-Condensing)	0-95%RH@0-40°C (Non-Condensing)	0-95%RH@0-40°C (Non-Condensing)
Storage Relative Humidity	0 - 95 %	0 - 95 %	0 - 95 %
Maximum Operating Elevation	10,000 ft / 3,000 m	10,000 ft / 3,000 m	10,000 ft / 3,000 m
Maximum Storage Elevation	50,000 ft / 15,000 m	50,000 ft / 15,000 m	50,000 ft / 15,000 m

WARRANTY INFORMATION

batteries.

Your bXterra product comes with a Limited 3-Year Warranty. bXterra warrants this product, if used appropriately and in full accordance with all applicable instructions, to be free from original defects in material and workmanship for 3 years from the date of initial purchase. If the product can be proven defective in material or workmanship during that 3-year period, bXterra will, subject to the full terms and limitations of the product's Limited Warranty available on our website, repair or replace that product. bXterra will act on its own discretion as the sole remedy for bXterra's breach of its Limited Warranty. Full details of this Limited Warranty and bXterra's Connected Equipment Guarantee can be found on our website at www.bxterra.com/warranty or at the individual product's page on our website. Please register your product at www.bxterra.com/registration to certify your product's warranty.

This manual is believed to be accurate, but bXterra reserves the right to change or correct the contents of this manual at a later date and does not assume any responsibility for omissions or errors.

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