



NXRT-CBP

Charger Battery Packs

User & Installation Manual

Charger Battery Pack User Guide

Estimated Run Time for UPS with Charger Battery Packs

MODEL	RUNTIME FOR QTY OF EXTENDED BATTERY PACKS IN MIN.								
	UPS	+ (1) EBP	+ (2) EBP	+ (2) EBP + (1) EBP	+ (3) EBP + (1) EBP	+ (4) EBP + (1) EBP	+ (4) EBP + (2) EBP	+ (5) EBP + (2) EBP	+ (6) EBP + (2) EBP
NXRT-1000	10	42	80	123	171	221	274	329	387
NXRT-1500	9	33	60	89	120	152	186	220	255
NXRT-2000	14	53	97	144	194	247	301	356	414
NXRT-3000	9	33	60	89	120	152	186	220	255

Note: one Charger Battery Pack (CBP) is recommended for every two Extended Battery Packs (EBP)

CAUTION: It is very critical to connect the correct voltage CBP with the UPS intended.

**CBP1 is for NXRT-1000
 CBP2 is for NXRT-1500
 CBP3 is for NXRT-2000/3000**

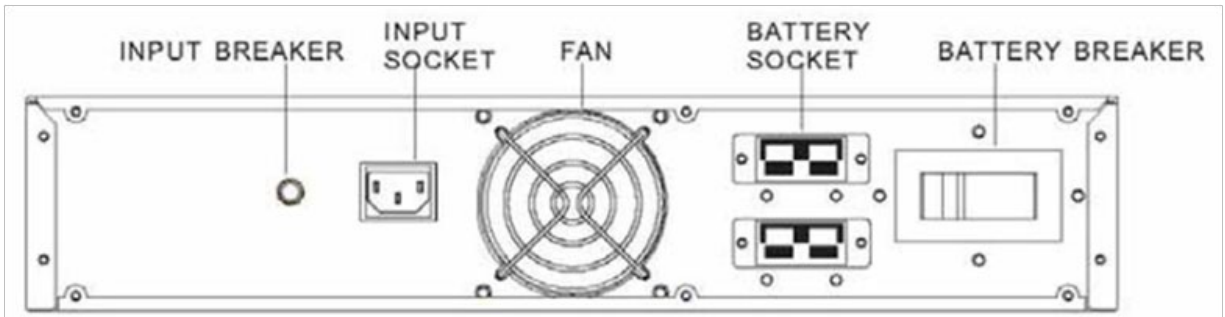
CONNECTING THE INCORRECT BATTERY PACK TO THE UPS MAY RESULT IN DAMAGE TO THE UPS AND/OR BATTERY PACK WILL VOID THE WARRANTY.

All CBP's have a different DC voltage configuration intended only for the UPS's listed above. PLEASE DO NOT MIX CBP's AND MAKE SURE YOU ONLY CONNECT THE CBP TO LIKE CBP's OR UPS INDICATED ABOVE. DC VOLTAGES ARE MARKED ON BOTH THE UPS AND THE CBP – MAKE SURE THEY MATCH.

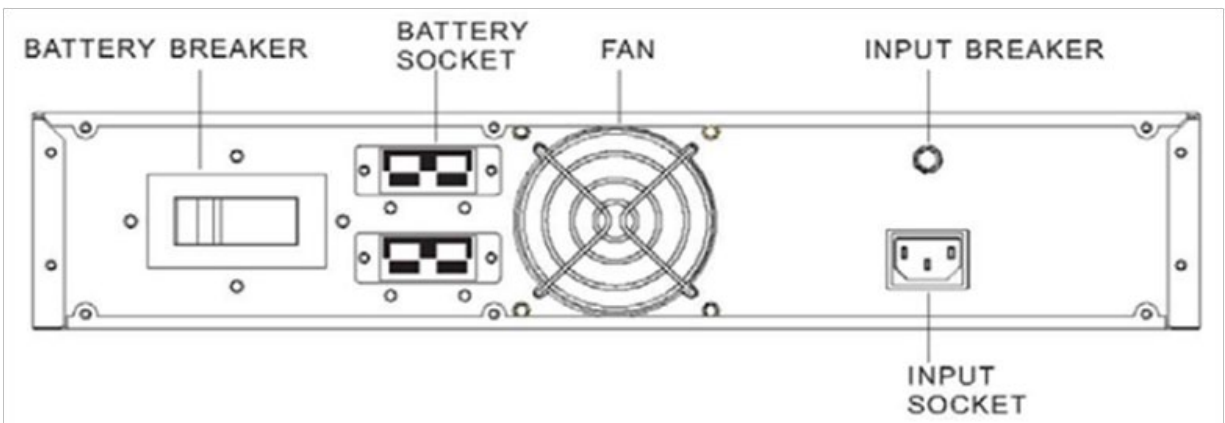


Caution label on CBP cable connectors - PLEASE CHECK VOLTAGES CAREFULLY

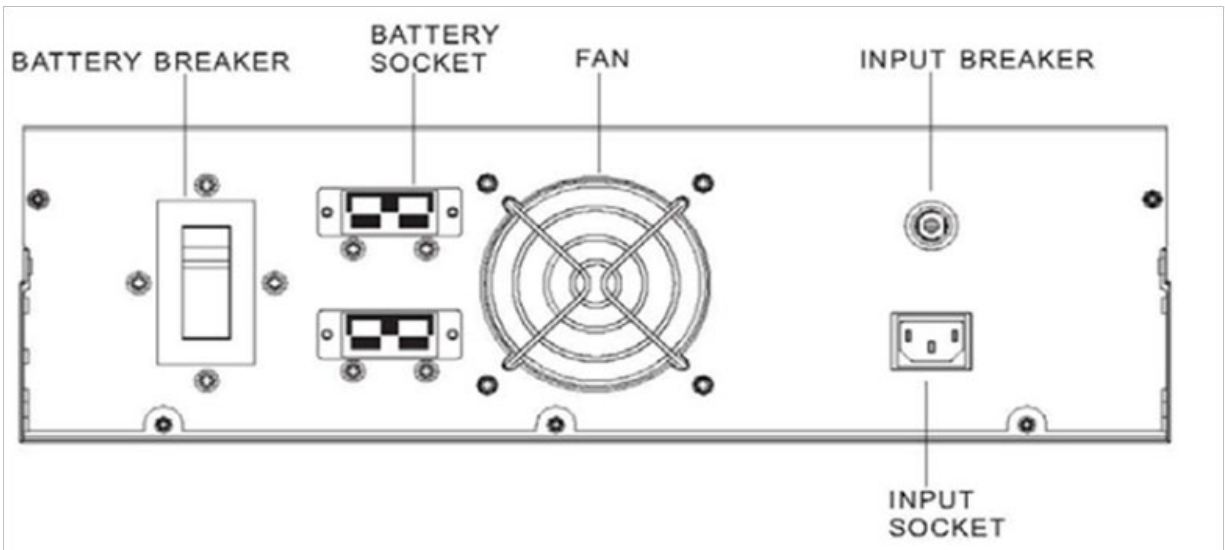
Charger Battery Pack Configuration



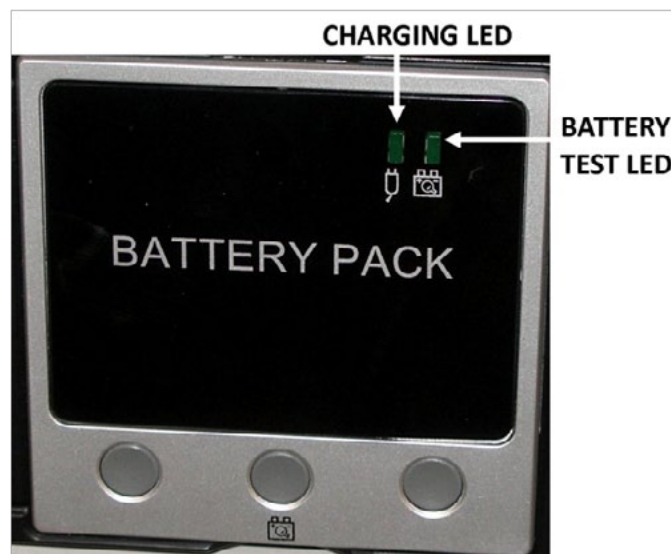
CBP1 for NXRT-1000



CBP2 for NXRT-1500



CBP3 for NXRT-2000/3000



NXRT-CBP front panel

LED Description

The **Charging LED GREEN** indicates that the battery charger in the Charger Battery Pack is charging normally with the AC power cord attached to the Battery pack. AC power cord is only used for every third CBP installed.

The **Battery Test LED GREEN** indicates that the DC output of the Charger Battery Pack (CBP) is normal.

To perform the Battery Test:

- Switch the breaker on the rear of the CBP to ON position
- Press the Battery Test Button on the front panel of the CBP
- The DC output from the CBP is normal when the Battery Test LED is illuminated

Prior to connecting CBP's, test each CBP to assure proper operation.

Charger Battery Pack Operation

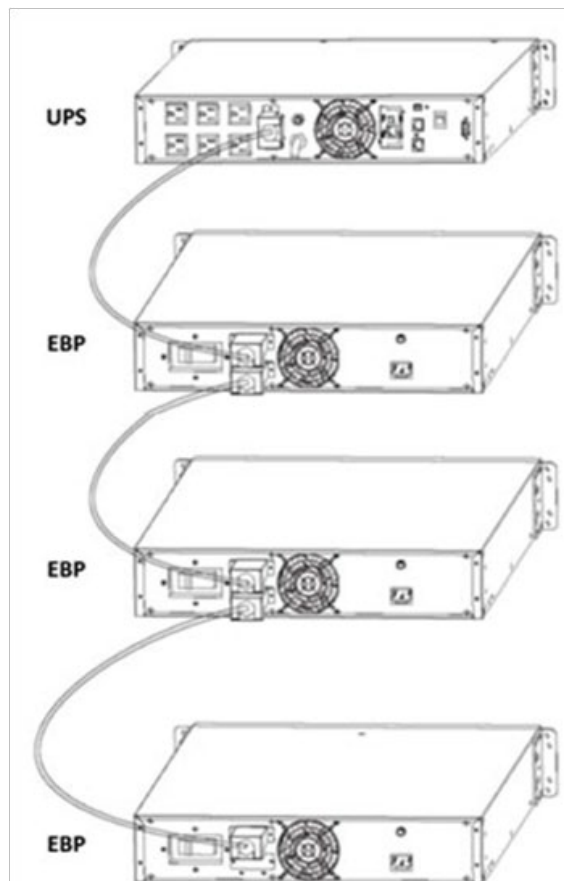
The NXRT UPS System can be connected to multiple Charger battery packs to increase the runtime when connected to the UPS supporting the load. Most UPS Systems are limited to one or two external battery packs because the UPS is responsible for the recharging and does not have the recharge capacity to handle the additional batteries to a full recharge. The NXRT UPS System overcomes this limitation by equipping each Charger battery pack (CBP) with its own charger, providing the user a way to achieve significantly more battery backup time.

1. The DC Circuit Breaker on the rear of the CBP connects and disconnects the DC bus voltage from the CBP to the UPS. The DC Circuit Breaker will also trip to the OFF position in the event of an over-current condition in the CBP.



CBP2 rear view

2. The CBP's use a cable shipped with each CBP to "daisy chain" together additional CBP's to the first CBP being connected to the UPS in the appropriately labeled connector, or for connecting the first CBP to the UPS.



CBP'S "daisy chain" to EBP

Note: do not connect the CBP charger power cord into the UPS receptacle.

3. The AC input cord is for connecting AC utility to operate the Charger contained in every CBP.
4. The input AC Circuit Breaker will trip to the OFF position in the event that the internal CBP charger draws excessive current.

Charger Battery Pack Installation

CAUTION: Charger Battery Pack (CBP) Installation should be performed by qualified service personnel.

1. Verify that the DC circuit breaker on the rear panel of the CBP is in the OFF position.
2. Turn the UPS OFF and disconnect the UPS Input Cord from the AC wall outlet.
3. Remove the CBP connector cover from the UPS rear panel.
4. Connect the external DC battery cable from the CBP to the appropriate connector on the UPS.
5. Secure the DC battery cable to both the rear of the UPS and the rear of the CBP by using M3 x 8 screws provided (2 each per connector end).
6. Repeat the above procedure for testing and securing each additional CBP required.

CAUTION: Do not use extension cords when connecting input AC power to UPS or CBP's

7. Move the DC circuit breaker on the rear of each CBP to the ON position. At this point the UPS will need to be started.
8. If the CBP's are plugged into an AC source and properly installed, the internal batteries will be charged when acceptable voltage is present. CBP's must be charged for a minimum of 6 hours for full battery time.

NOTE: If the CBP is going to be out of service or stored for six months or longer, the batteries must be recharged for at least 36 hours every six months.

Charger Battery Pack Q & A

1. Which CBP's do I connect to an AC input source?
 - It is recommended that every third CBP be connected to incoming AC utility to properly charge the batteries in a complete system. Leaving too many chargers connected may cause an over charge situation which could damage the batteries and void the warranty.
2. Which LED's are supposed to be lit on the front of each CBP?
 - When an CBP is connected to an AC input source and the unit is charging, a GREEN LED on the front of the CBP will be illuminated.
3. Are any LED's on the front of the CBP supposed to be lit if it is not connected to an AC input source?
 - No. The UPS and/or the CBP's that are plugged into an AC input source are responsible for charging the entire system. The CBP is still working and has the capability of providing DC voltage when needed. No LED on the front bezel will be illuminated.
4. The CBP is connected to an AC input source, why does the LED on the front of the CBP turn ON and OFF intermittently, and does this mean this CBP is not working?
 - The GREEN LED on the front of each CBP indicates that the charger contained in the CBP is charging. Under certain conditions when the batteries are 100% charged, the charger in the CBP will shut off and the LED will no longer be illuminated. This is normal operation for the CBP. The CBP is working properly.
5. Why don't the LED's on each CBP connected to an AC input source turn ON and OFF at the same time?
 - The charger on each CBP functions independently from the others. One CBP charger may be charging while another one might be at 100% and the charger turned off. This is normal operation of the CBP.