

1500 VA LCD 2U Rack UPS
2200 VA LCD 2U Rack UPS
3000 VA LCD 3U Rack UPS



Internal Battery Replacement Procedure

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WARNING

This procedure may only be carried out by qualified personnel.

CAUTION

Lead-acid batteries can present a risk of electrical burn from high, short-circuit current. Avoid battery contact with metal materials; remove watches, rings, or other metal objects, and use tools with insulated handles. To avoid possible explosion, do not burn.

Exchange only with the IBM-approved part. Recycle or discard the battery as instructed by local regulations. In the United States, IBM has a process for the collection of this battery. For information, call 1-800-426-4333. Have the IBM part number for the battery unit available when you call. (C004)

Servicing of batteries must be performed or supervised by personnel who are knowledgeable about batteries and the required precautions. Keep unauthorized personnel away from batteries. Batteries can present a risk of electrical shock or burn from high short-circuit current.

Determine whether the battery is inadvertently grounded. If it is inadvertently grounded, remove the utility source from the ground. Contact with any part of a grounded battery can result in electrical shock. The likelihood of such shock can be reduced if such grounds are removed during installation and maintenance (applicable to equipment and remote battery supplies that do not have a grounded supply circuit).

Replace batteries with the same number and type of batteries as originally installed in the uninterruptible power supply. Do not dispose of batteries in a fire. Batteries might explode when exposed to flame.

Do not open or mutilate the batteries. Released electrolyte is harmful to the skin and eyes and can be extremely toxic.

The 2200 VA and 3000 VA uninterruptible power supply models might have an extended battery module option.

If the message Service Battery is displayed and the audible alarm is on continuously, you might have to replace the battery module. Contact your technical support representative to order new batteries.

IMPORTANT

Do not disconnect the batteries while the uninterruptible power supply is in Battery mode. Consider all warnings, cautions, and notes before you replace batteries. Disconnect the charging source before you connect or disconnect the battery terminals.

Tools required

1x #5 flat-head screwdriver

Procedure

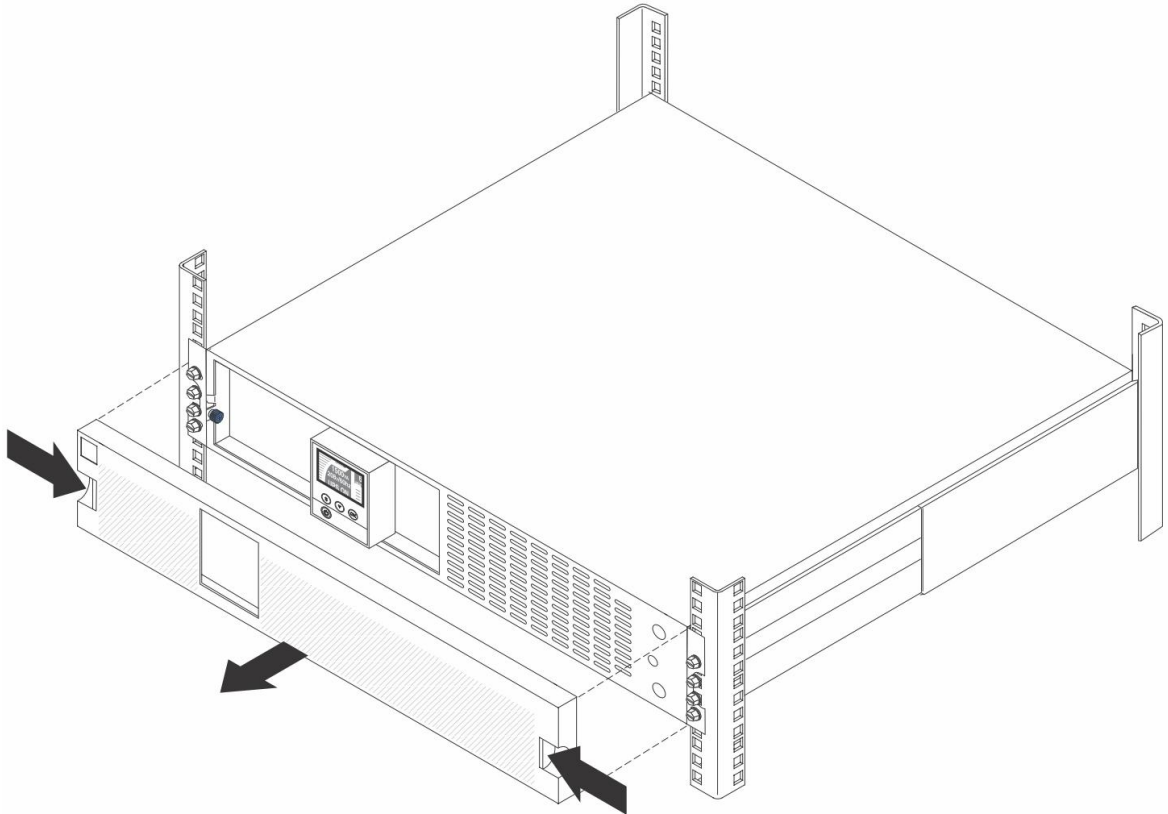
To remove input power to change the battery, complete the following steps.

Note: Qualified personnel can replace internal batteries without shutting down the uninterruptible power supply and without having to remove the uninterruptible power supply from the rack cabinet.

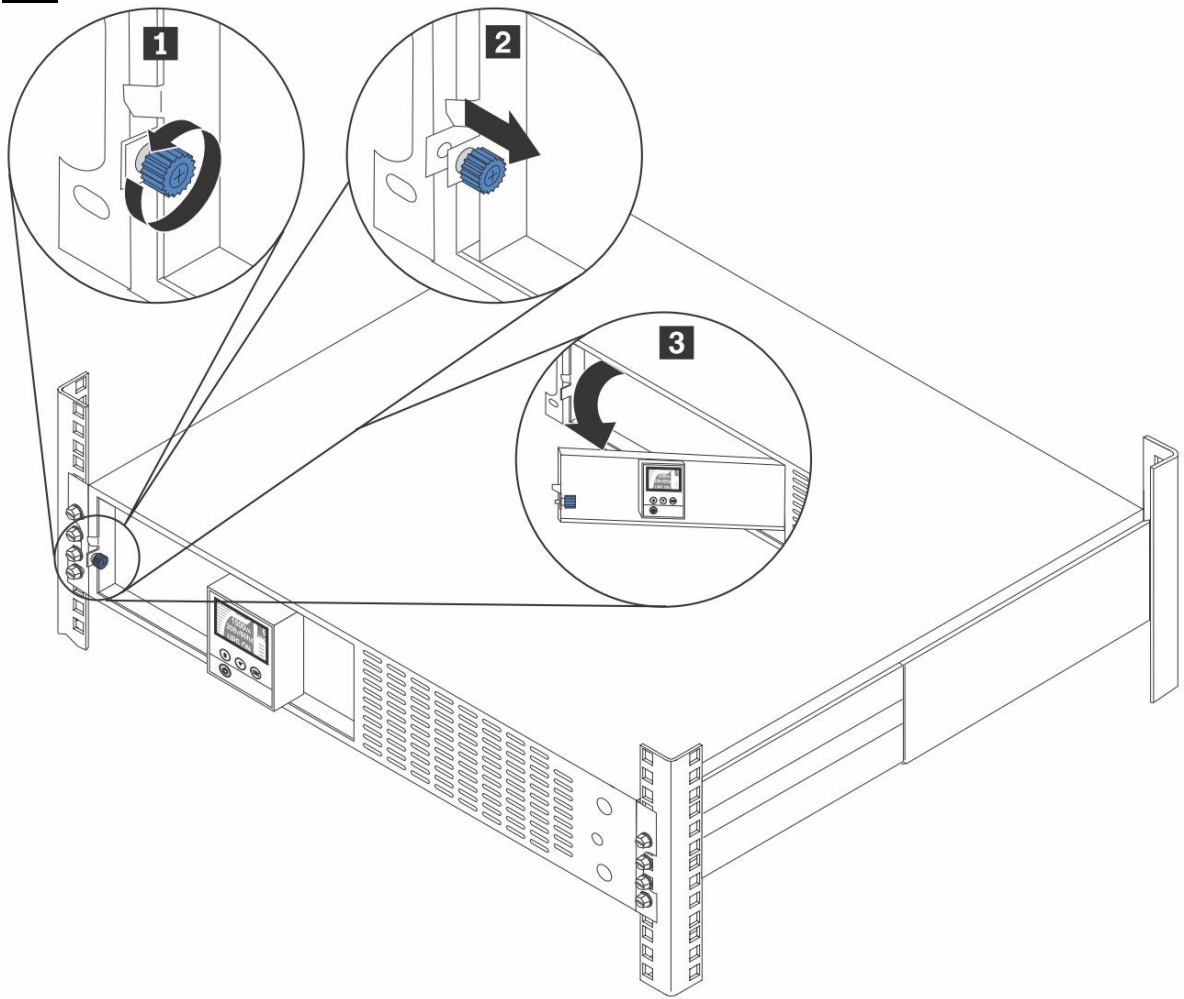
1. Press and hold the on/off button until the long beep ceases (approximately 3 seconds), and then disconnect the uninterruptible power supply.
2. Wait 60 seconds while the internal processor shuts down before you disconnect the battery.

To replace the battery module, complete the following steps:

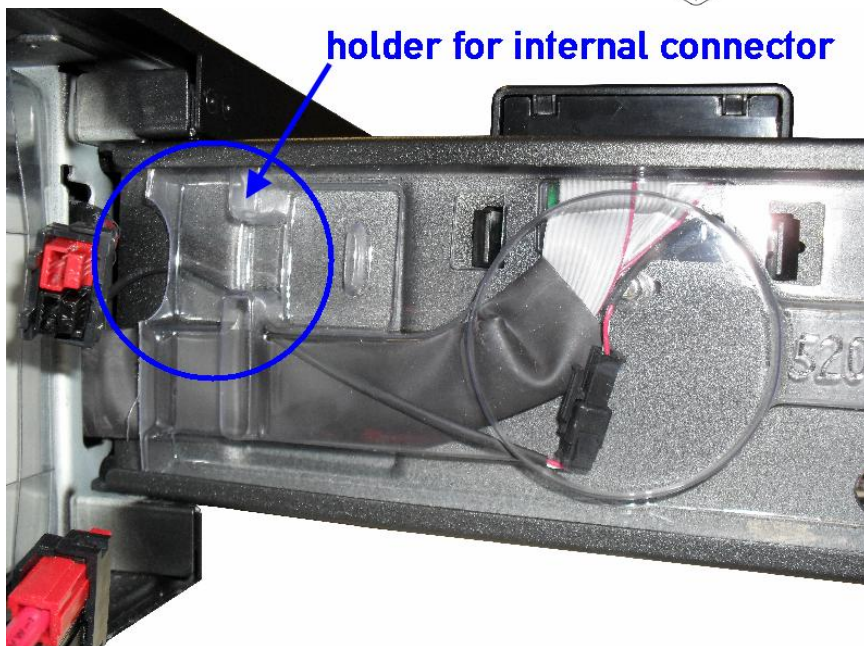
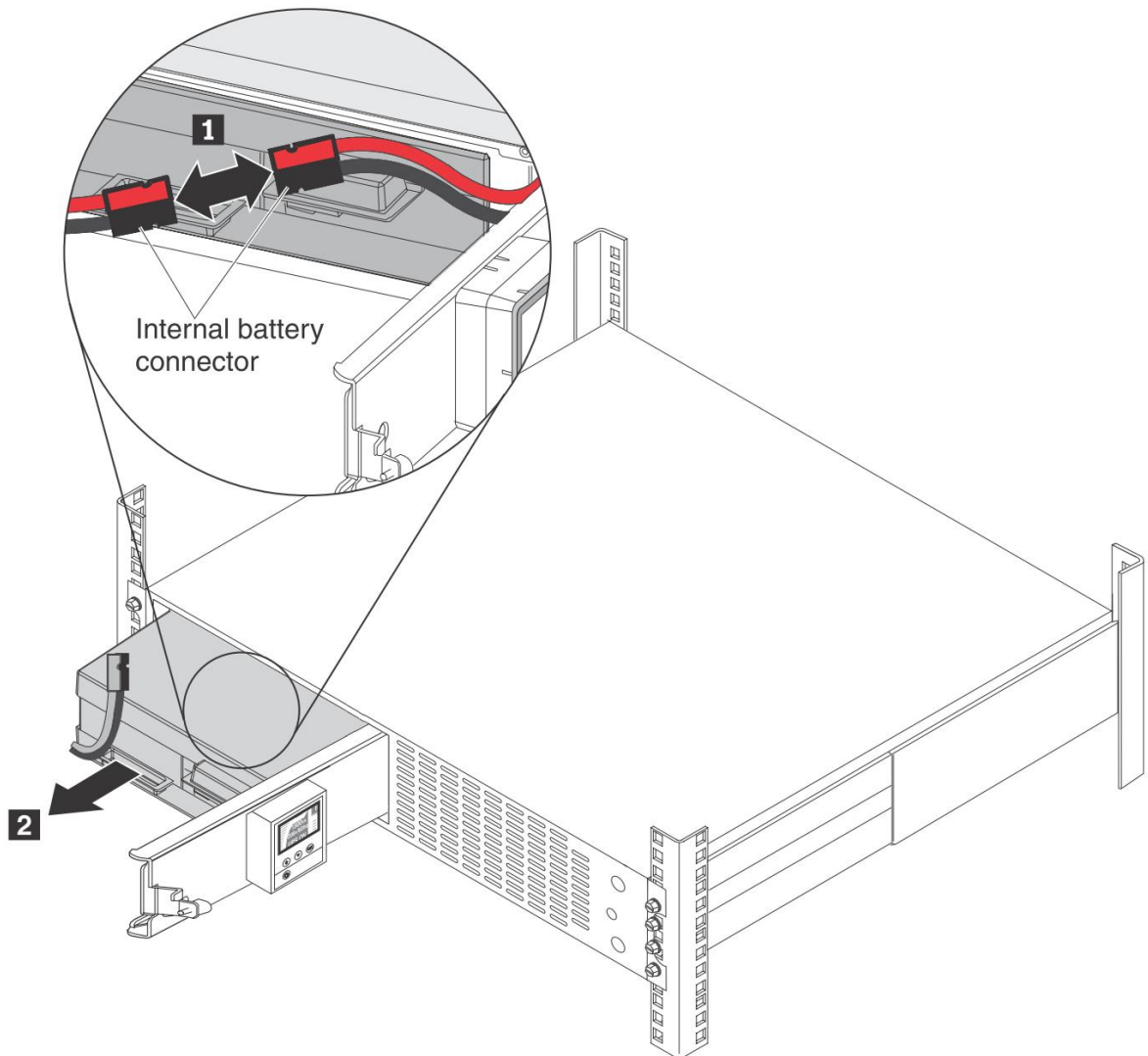
1. Remove the uninterruptible power supply front bezel. Press the two side latches toward each other to release the front bezel, and pull off the bezel.



2. Loosen the thumbscrew on the metal battery cover **1** (this may require the #5 flat-head screwdriver), slide the cover to the right **2**, and open the cover **3**.



3. Disconnect the internal battery connector **1** and move connector on the battery out of the way and place the internal connector into the holder in the cover door





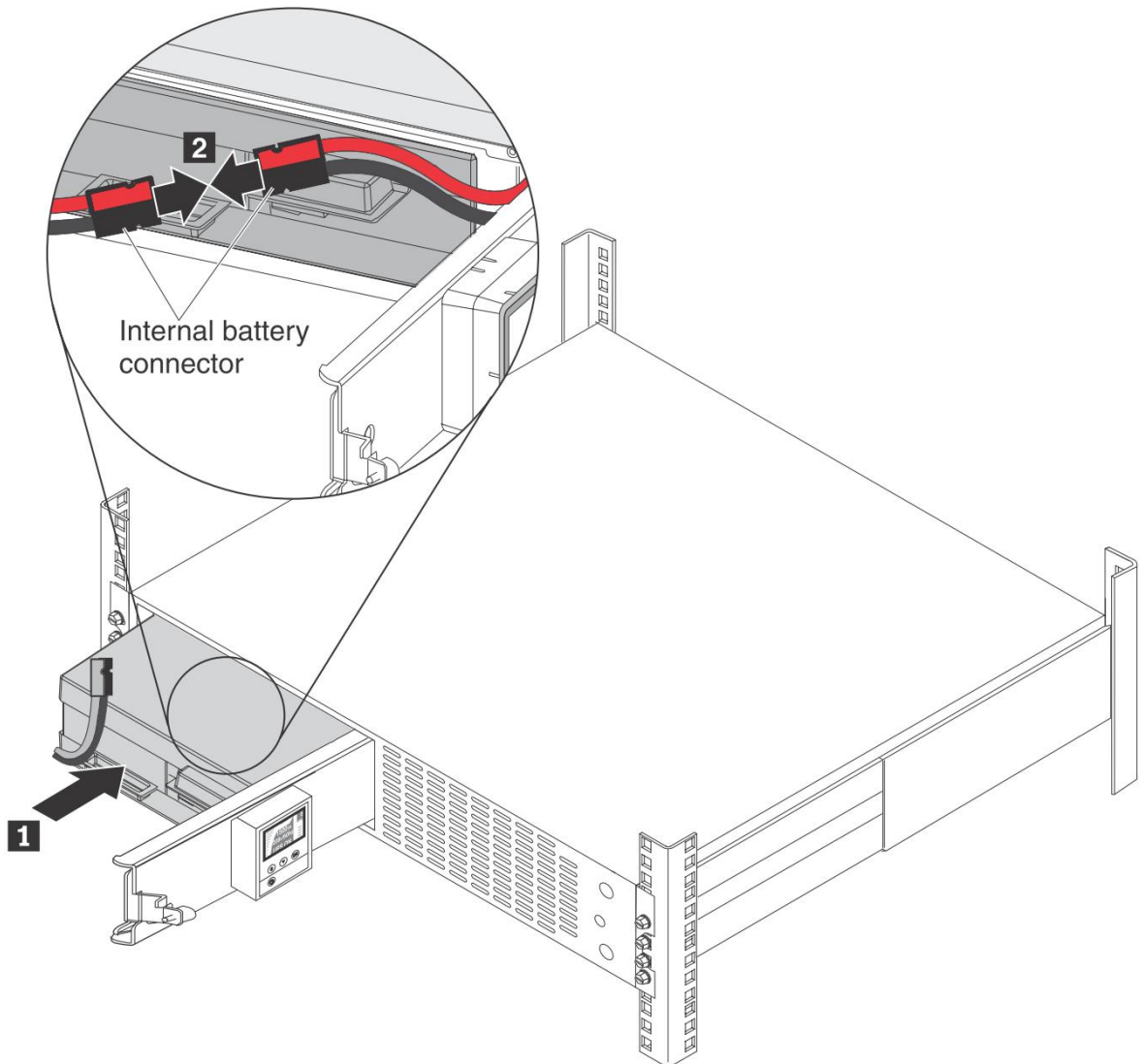
4. Using the plastic tabs, pull the battery module partially out of the bay **2**, see graphics on previous page for more details.
5. See the following table to determine how many people are required to lift the internal battery module. Some battery modules might require two people to lift it.

Battery description	Weight	Handling requirement
1500 VA internal battery module	8 kg (18 lb)	One person
2200 VA internal battery module	16.3 kg (36 lb)	One person
3000 VA internal battery module	21.3 kg (47 lb)	Two persons

6. With two hands, pull the battery module fully out of the bay and recycle or discard it as instructed by local regulations.

Note: The 3000 VA battery module requires two persons to handle it.

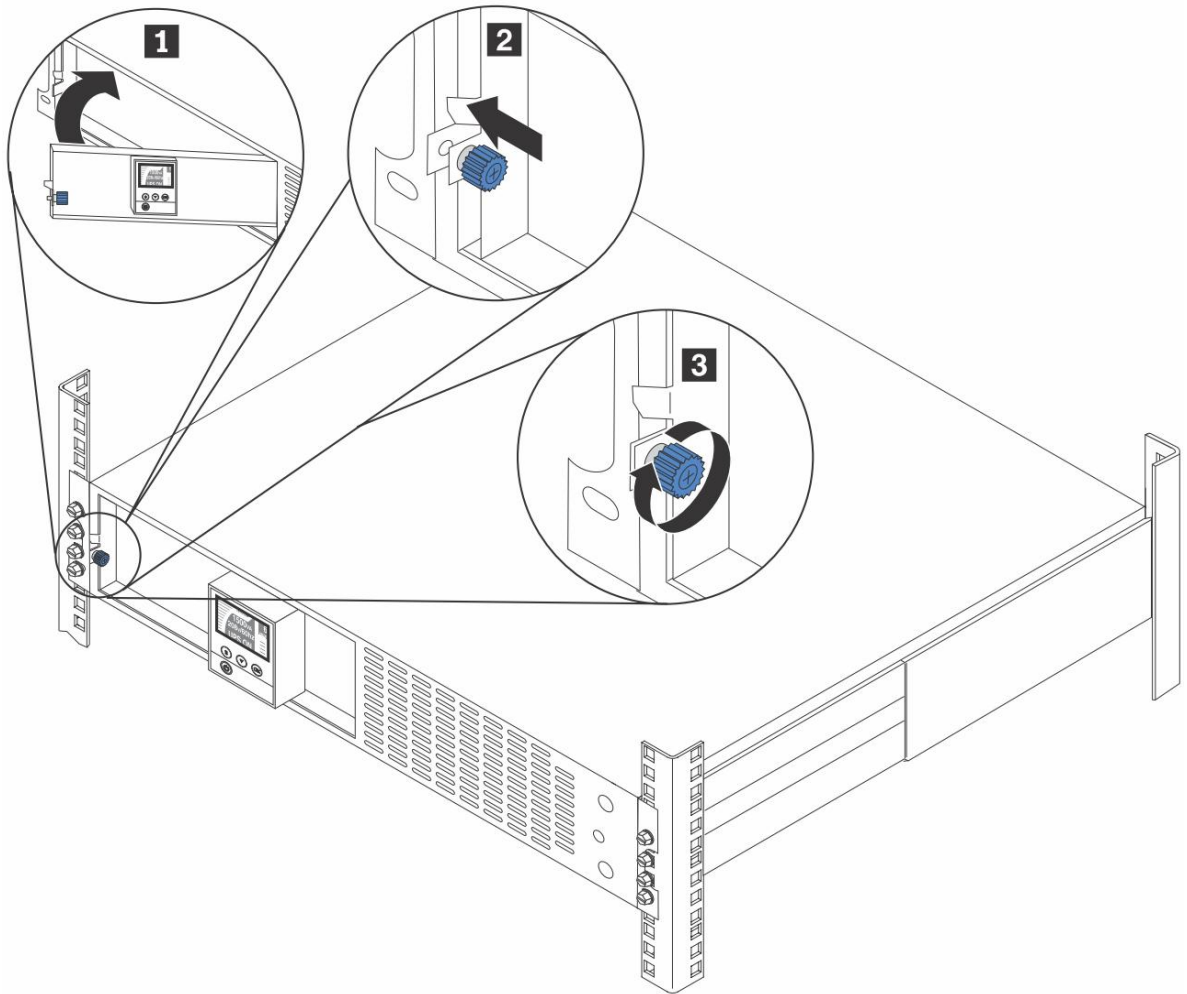
7. With two hands (four hands for a 3000 VA battery module), slide the new battery module into the uninterruptible power supply **1**.



8. Connect the internal battery connector **2** - see graphics on previous page for more details - after pulling it out of the holder in the cover door with the connector on the battery.

Note: A small amount of arcing might occur when you connect the batteries. This is normal and does not damage the unit or present any safety concern.

9. Close the metal battery cover **1**, then slide the cover slightly to the right and then to the left **2**. Tighten the thumbscrew **3** - this may require the #5 flat-head screwdriver.



10. To attach the uninterruptible power supply front bezel, press the two side latches toward each other, align the bezel with the uninterruptible power supply, and snap it into place.

