

BNB75R/BNB150R/BNB300R Instruction Manual 使用说明书



This product is a replacement battery pack for BN75R, BN150R, and BN300R.

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Safety precautions Important information for safe operation is described. Be sure to read it before installation and start of use.

- The safety symbols and their meaning used in this manual are as follows:

| | |
|--|---|
|  Warning | Misuse may cause death or serious injury. |
|  Caution | Misuse may cause injury or property damage. |

* Property damage means damage to houses/household effects, livestock, and pets.

 : Indicates prohibition. For example,  indicates that disassembly is prohibited.

 : Indicates obligation. For example,  indicates that grounding is necessary.

Note that events categorized as a caution required matter also may cause more serious results under certain conditions.



Caution (for battery replacement)

Perform replacement on a stable and flat place.

- Handle the battery carefully so that you do not drop it.
- Not doing so could cause injury or burns due to liquid (acid) leakage.



Use a specified battery for replacement.

- Not doing so may cause a fire.
- Replacement battery pack for
BN75R: BNB75R
BN150R: BNB150R
BN300R: BNB300R



Do not replace the battery in a place where there is flammable gas.

- Spark may occur when connecting the battery, which may cause an explosion or fire.



If fluid (dilute sulfuric acid) leaks from the battery, do not touch the fluid.

- Doing so may cause blindness or burns.
- If it contacts your eyes or skin, wash it out with lots of clean water and consult your doctor.



Do not disassemble or modify the battery.

- Doing so could cause dilute sulfuric acid leak, which could cause blindness and burns.



Do not drop the battery and do not expose it to strong impact.

- Dilute sulfuric acid may leak.



Do not short the battery with metal objects.

- Doing so could cause an electric shock, fire or burn.
- Some electrical energy still remains inside the spent battery.



Do not put the battery into fire and do not break it.

- The battery may explode or leak dilute sulfuric acid.



Do not use a new battery and an old battery at the same time.

- Dilute sulfuric acid may leak.
- A battery can present a risk of electrical shock and high short circuit current. The following precautions should be observed when working on batteries:
 - 1) Remove watches, rings, or other metal objects from the hands.
 - 2) Use tools with insulated handles.
 - 3) Wear rubber gloves and boots.
 - 4) Do not lay tools or metal parts on top of batteries.
 - 5) Disconnect charging source prior to connecting or disconnecting batteries terminals.
- Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from batteries.



1. Checking the contents

Check whether all the package contents are included and there is no damage found on their appearance. If you should notice defects or anything wrong, contact us; OMRON Electronic Systems & Equipments Customer Support Center.

- Instruction manual (Japanese/English) 1 each
- Battery replacement date label 1

2. Replacing the battery

The battery can be replaced while the UPS is stopped (power supply output stopped).

Caution

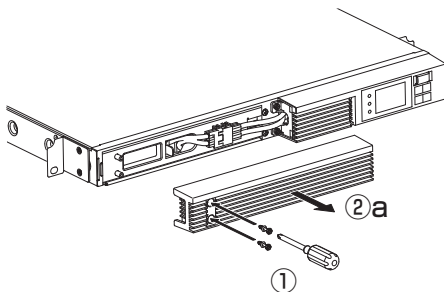
When the UPS is used in compliance with UL standards, battery replacement should be performed or supervised by personnel familiar with the danger of batteries and the required precautions.

- * When the battery replacement LED lights up/blinks and beeper sounds, press the ESC switch for 0.5 seconds to stop the beeper. (Lighting/blinking of "battery replacement" LED does not disappear.)
- * If an input power supply error such as a power failure occurs when replacing the battery while in operation, backup cannot be performed and output stops.
- * Do not replace the battery during backup operation. Output will stop.

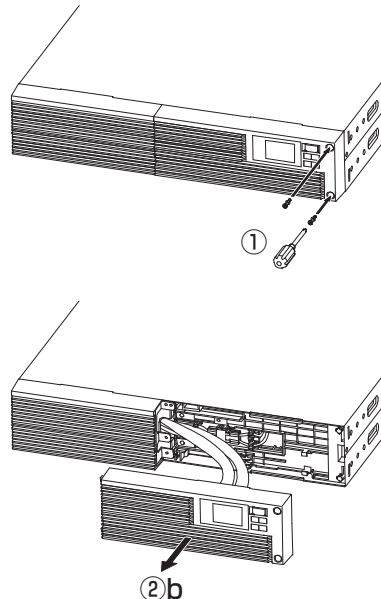
UPS battery replacement procedure

1. Use a screwdriver to loosen (turn counter-clockwise) the 2 screws on the left side (for the BN75R) or right side (for the BN150R and BN300R) of the front panel of the UPS. ①
For the BN75R, pull the left side of the front panel towards you to remove it. ② a
For the BN150R and BN300R, pull the right side of the front panel towards you to remove it.
Be careful not to pull the cables of the LCD or disconnect the connectors. ② b

<BN75R>



<BN150R/BN300R>



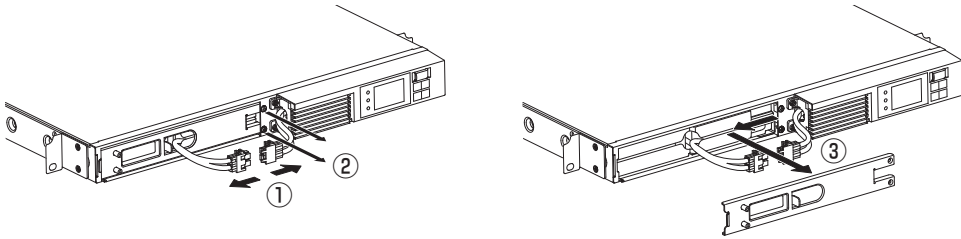
Caution: Do not pull the cables of the LCD or disconnect the connectors.

3. <BN75R>

Pull the battery connectors apart. ①

Remove (turn counter-clockwise) the 2 screws that hold the battery cover in place. ②

Slide the battery cover to the left and pull it towards your right side to remove it. ③



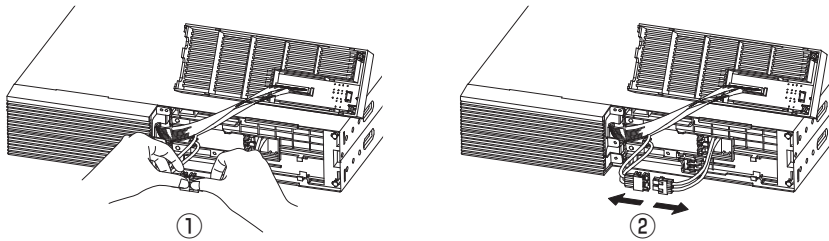
<BN150R>

Red and black battery cables are clamped to the unit; hold and pull them out towards you.

Pull the battery connectors apart ②.

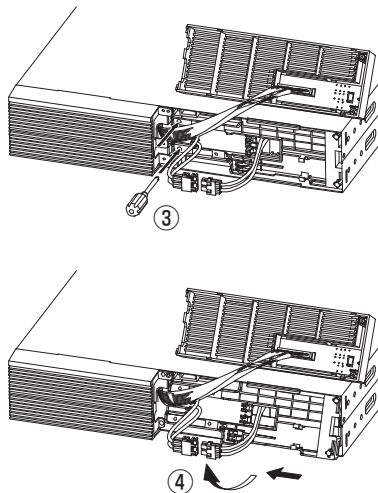
<BN300R>

Hold the battery connectors with both hands, and then, while pressing down on the center of the connectors ①, pull them apart ②.



Remove (turn counter-clockwise) the 2 screws that hold the battery cover in place. ③

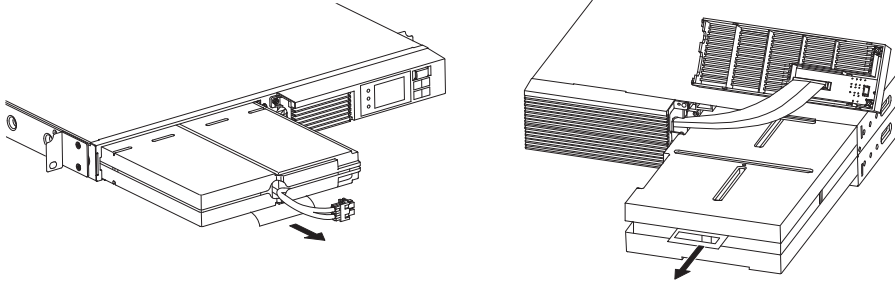
Slide the battery cover to the left and pull it towards you from the bottom to remove it. ④



3. Remove the battery pack by holding the white label on the bottom of the battery pack (for the BN75R) or by holding the battery pack handle (for the BN150R and BN300R).

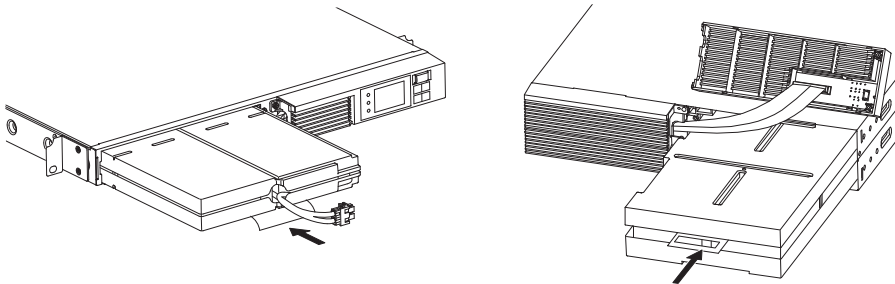
Caution: Do not hold the connector or cable of the battery pack.

Use the red line on the label on top of the battery pack, which is 10 cm from the inner edge of the battery, to gauge how much further you need to pull the battery to remove it. Hold the battery securely with both hands so as not to drop it.



4. Insert the new battery upright into the UPS as far as it will go.

- Replacement battery pack
 - For BN75R: Model BNB75R
 - For BN150R: Model BNB150R
 - For BN300R: Model BNB300R



| | BN75R | BN150R | BN300R |
|--|-----------------------|------------------------|------------------------|
| Nominal voltage of total battery strings | 24 VDC (6 V×4 PCS) | 48 VDC (12 V×4 PCS) | 72 VDC (12 V×6 PCS) |
| Nominal capacity of each battery | 9Ah | | |



● CONTAINS SEALED LEAD-ACID BATTERY.

● BATTERY MUST BE RECYCLED.

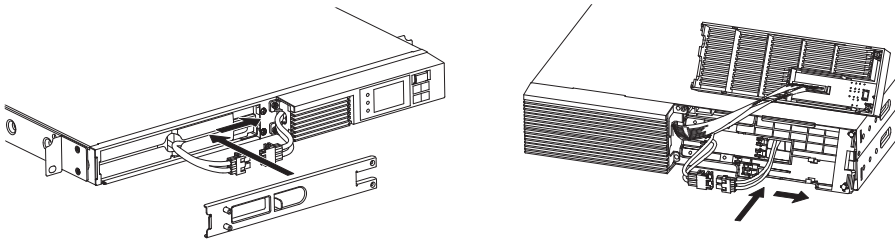
5. Attach the battery cover.

<BN75R>

Insert the battery cover from the right side, slide it to the left to align the screw holes, and then fix the battery cover with the 2 removed screws.

<BN150R and BN300R>

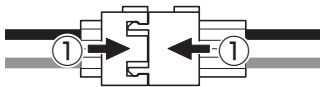
Insert the battery cover from the top side, and slide it to the right to fit into the tabs on the side of the UPS. Fix the battery cover with the 2 removed screws. Be careful not to tighten the screws too much; may strip the screw heads.



6. Securely connect the battery connectors. ①

For the BN150R, fit the battery cables into the clamps on the battery cover.

You may hear a “pop” sound when you connect the battery if it is replaced after the UPS’s operation is stopped, but this sound is not abnormal.



7. Attach the front panel.

Insert the front panel from the left side (for the BN75R) or right side (for the BN150R and BN300R), and fix it with the 2 screws.

Battery replacement is complete.

<Be sure to reset the battery life counter after replacing the battery.>

After replacing the battery, reset the battery life counter from the “Control” - “Reset B.life counter” screen in the LCD menu of the UPS.

If you do not reset the battery life counter, a battery replacement alarm may occur earlier than the expected battery life.



Write the battery replacement date on the included battery replacement date label, and attach the label to the UPS.

Or, enter the battery replacement date from the “Setting” - “Battery Settings” - “Battery Installation” screen in the menu on the LCD.

3. Notes of Chinese

扩展电池模块使用说明书

本文是更换不间断电源（以下简称 UPS）内置电池模块时的使用说明书。
详细内容请参照英文版使用说明书
（以下简称“Instruction Manual”）。

更换电池

无论 UPS 处于停止运转（停止输出电源）状态、还是正在运转状态（正在输出电源）均可执行电池更换。

- ※ 在停止运转状态下更换时，请停止连接设备的运转、关闭 UPS 的“电源输出”开关、并从电源插座上拔掉“AC 输入”插头。
- ※ 在运转状态下的电池更换中发生停电等输入电源异常时，会导致无法进入后备式运转而停止电源输出。
- ※ 请勿在后备式运转中更换电池。否则会导致输出停止。

1. 卸下 UPS 正面的前面板螺钉，拆除前面板。
螺钉位置请查看“Instruction Manual”。
2. 拆除位于前面板内侧的金属盖。
拆除方法请查看“Instruction Manual”。
3. 拔掉连接 UPS 和扩展电池的插头。
请一边握住插头主体一边拔去。
4. 请将新品扩展电池放入 UPS，然后连接插头。
5. 安装金属盖。
6. 安装前面板或外盖，并用螺钉紧固。

< 更换电池后，必须进行电池寿命计数器的复位。 >

更换电池后，请在不间断电源装置(UPS)的 LCD 菜单[Control]—[Reset B. life counter] 画面，复位电池寿命计数器。若不进行电池寿命计数器的复位、可能会早于电池预期寿命发生电池更换报警。



请在附带的“电池更换日期”标签上填写更换电池的日期，并粘贴于不间断电源装置(UPS)上。或在 LCD 菜单 [Setting] — [Battery Settings] — [Battery Installation] 画面输入电池更换日期。

◆注意事项◆

本产品中使用了铅酸蓄电池(铅蓄电池)。

● 将换下无用的电池进行废物处理时，请联系咨询窗口。

电池可以保管(未使用状态)的期限是,自完全充电状态起约6个月左右。(保管温度在25°C以下时。40°C以下时为2个月左右。)

● 电池即使不使用也会在内部自然放电，长时间放置后会呈现过放电状态，由此导致后备时间缩短、以致无法使用。

● 电池在保管期间也会出现老化而导致使用寿命缩短的现象。
请尽快开始使用。

● 请在购买电池后6个月以内开始使用。

安装于 UPS 进行保管时，请在保管前充电8小时以上，并在保管期间将电源开关切换为“关”状态。保管时间超过6个月时，请在超时前重新对电池进行充电。

电池的充电时间请查看“Instruction Manual”。

● 若需要继续保管，则请在保管温度为25°C以下和40°C以下时分别以每6个月和每2个月的间隔对电池重新进行充电。

欧姆龙自动化(中国)有限公司

URL : <http://www.fa.omron.com.cn>