

Manual for Replacement Battery Pack



- Battery servicing and replacement should be performed or supervised by technically qualified personnel knowledgeable about batteries and the required precautions. Keep unqualified personnel away from batteries.
- Each battery pack weighs about 9.5 kg (20.94 lbs). Be careful not to drop it on or near your feet, as injury could result.
- Protective measures should be taken when replacing batteries, such as wearing insulated gloves, as shock hazards are present.
- Up to 41 V is always present at the battery terminals. Avoid touching the terminals with your fingers or causing a short circuit, as injury could result.
- During replacement, be careful to avoid pinching your fingers.

Replace batteries only with the same model and brand. When multiple UPS unit is connected, replace all batteries in all UPS units at the same time.

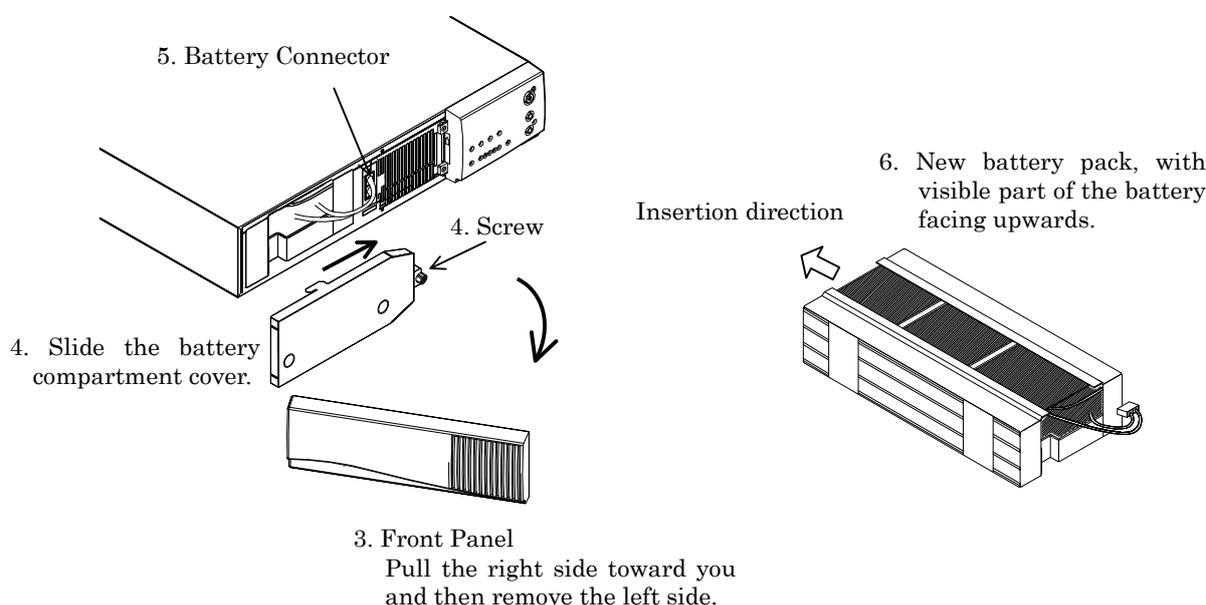
- If the UPS can be shut down completely, perform the step **1 to 13** to replace the batteries.
- If the UPS system cannot be allowed to be shut down, perform the step **3 to 11** to replace the batteries.

However, be aware that if an input abnormality such as a power outage occurs during these procedures, backup power will be unavailable. So replacement procedure should be performed as quickly as possible.

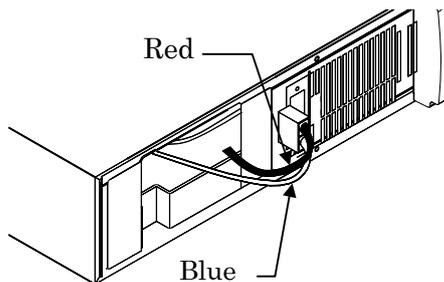
We therefore recommend shutting down the UPS while replacing batteries.

Battery replacement procedure

1. Shut down the UPS completely according to “Shutdown Operation” in the Manual of the UPS.
2. Switch OFF the distribution panel breaker of the AC source.
3. Remove the front panel of the UPS.
4. Loosen the screw, and slide the battery compartment cover off.
5. Unplug the battery connector and pull out the battery pack.
There is no stopper to prevent dropping, so pull it out slowly while supporting the bottom with one hand, and be careful not to drop it.
6. Insert the new battery pack with the connector towards the front.



7. Plug the plug from the battery pack to the battery connector on the UPS until it clicks.



 CAUTION	<ul style="list-style-type: none"> • Be sure to insert the battery connector in the proper direction. There is hazard of fire and shock. • Be careful not to pinch your fingers when replacing the cover.
--------------------	---

8. After installing the battery compartment cover, tighten the screw.
9. Attach the front panel.
10. Write the next replacement date in the spaces of the supplied label as shown below.

Check the ambient temperature of the installation location of the UPS.

See the right table to determine the next replacement date of the battery, and write the next battery replacement date in the spaces of the label, using an indelible pen.

An initial date in reckoning shall be the date of this battery replacement.

Ambient Temperature	Life Expectancy	Battery Replacement Period
25°C (77°F)	5.0 years	4.5 years
30°C (86°F)	3.5 years	3.0 years
35°C (95°F)	2.5 years	2.0 years
40°C (104°F)	1.7 years	1.5 years

Example)

When the UPS is installed in the location where ambient temperature is 25°C (77°F).

If the battery is replaced on February 2004, the next battery replacement date should be July 2008.

● If the floppy disks etc which is influenced easily by magnetic flux is put on, may be broken.

Cautions for storage battery replacement

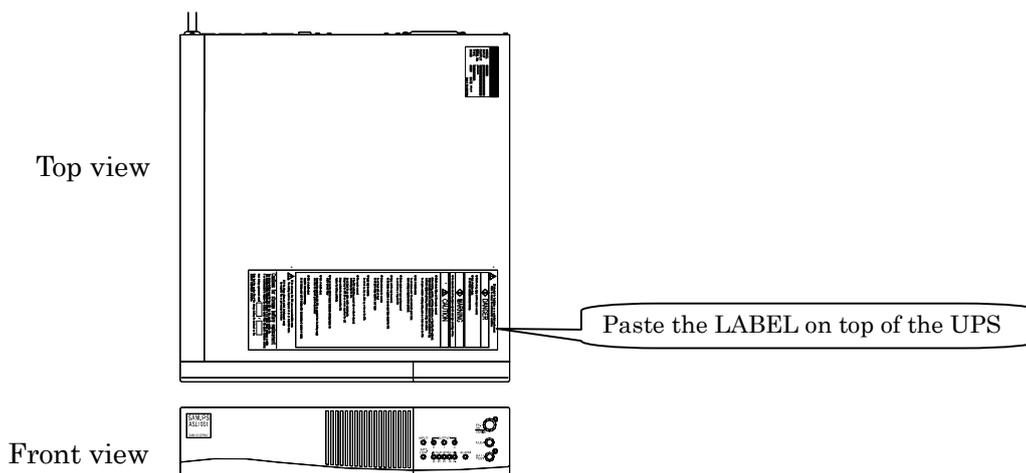
The storage battery used for this unit has the specific service life. The standard battery replacement interval is 4.5 years (when operated at 25°C). It is recommended to replace the battery earlier than the above reference interval.

Next battery replacement date: /

Note that the service life of the storage battery is shortened as the ambient temperature increases.

July / 2008

11. Paste the supplied label on the place of the UPS as shown in the following figure.



12. Switch ON the distribution panel breaker of the AC source.
13. Start up the UPS. See “Starting Operation” in the Manual of the UPS for details.

About Used Batteries

The batteries in this product are the lead type batteries which are a reusable resource. And the batteries are a regulated industrial waste. They include poisonous lead substances, so to dispose of used batteries after replacement, please contact a waste disposal/recycling company, or return batteries to the place of purchase using the packaging in which the replacement batteries were supplied. Please cooperate by recycling when replacing or disposing of used batteries.