



Smart-UPS® External Battery Pack SUA24XLBP

990-5054 04/2011

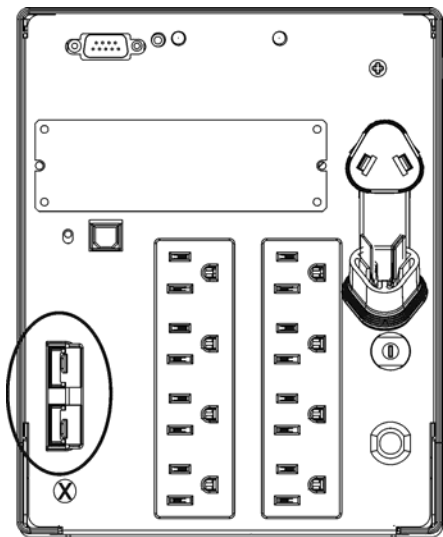
Refer to the User Manual for basic information about the Smart-UPS and the Smart-UPS XL Supplement for additional information on extended run versions of the UPS. This supplement provides information on the battery packs.

Installation

Inspection

Inspect the battery pack upon receipt. Notify the carrier and dealer if there is damage. The packaging is recyclable; save it for reuse or dispose of it properly.

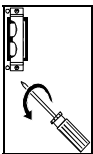
Placement



This figure shows the location of the battery pack connector.

The battery pack connector is color coded and keyed to prevent improper connection. Do not attempt to install battery packs with connectors that are a different color from the battery pack connector on the UPS.

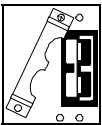
Install up to 10 battery packs per XL model UPS following the instructions below.



1. Prepare the UPS to connect the battery pack(s). Note the holes used to attach the battery pack connector clamp (near the center of the connector opening). Use a #2 Phillips head screwdriver to remove the battery pack connector clamp from the back of the UPS.



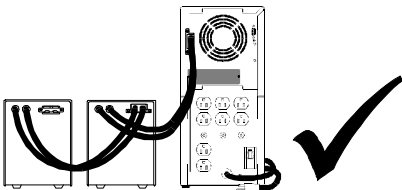
3. Holding the clamp aside, insert the battery pack connector into the UPS.



2. Turn the clamp over and loosely attach one end at the edge of the connector opening in the UPS.

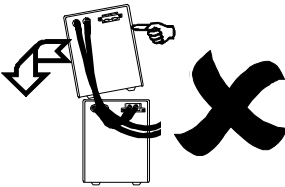


4. Secure the connector clamp.



For additional battery packs, repeat this procedure using the battery pack connectors on the battery packs.

Note: Do not stack battery packs. Stacking results in a tipping hazard.



Storage

Storage Conditions

Store the battery pack covered and upright in a cool, dry location, with its batteries fully charged. Before storing, charge the battery pack for at least 4 hours.

Extended Storage

At -15 to +30 °C (+5 to +86 °F), charge the battery pack every 6 months

At +30 to +45 °C (+86 to +113 °F), charge the battery pack every 3 months.

Battery Charge and Run Times

A floppy disk is shipped with each battery pack to configure your Smart-UPS for use with each new battery pack added. Your Smart-UPS needs to be configured appropriately so that it can better calculate the discharge time. Connect the UPS’ port to a serial port on a PC or workstation running DOS or Windows, by using the black colored communications cable included. Next, while at the DOS prompt, insert the floppy disk into a drive and change to that drive’s letter (e.g.. **A:**) Then type: **battpack com[X] [Y]**, where **[X]** = 1 or 2 depending on the serial port used, and **[Y]** = number of battery packs attached to the UPS.

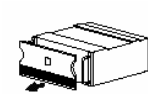
The *Smart-UPS XL Supplement* contains tables showing both the time required for charging UPS and battery pack batteries for rated protection and typical run times.

Replacing the Battery

This battery pack has easy to replace hot-swappable batteries. Battery replacement is a safe procedure, isolated from electrical hazards. You may leave the UPS and loads on for the following procedure. See your dealer or call the number in this manual for information on replacement battery kits.

Note: Please read the cautions in the APC Safety Guide. Save your data before beginning this procedure. Once the battery is disconnected, the loads are not protected from power outages.

Battery Replacement Procedure - Rack Mount XL Battery Packs

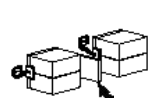


- 1.Reach into the finger pull and **remove** the front cover.
- 2.Use a flat-blade, screwdriver or coin to remove the battery door screws and open the door.

Warning! Do not force the battery out. This may damage internal wiring!



- 3.**Disconnect** the battery connector by pulling on the white cord on the side of the battery.
- 4.**Slide** the battery out of the battery pack.



- 5.Remove the foam separator.
- 6.Repeat steps 3 - 5 for the second battery.
- 7.Repeat steps 3 - 6 for the two batteries on the other side of the battery pack.

Note: Be careful removing the batteries - they are heavy..

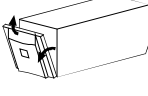
- 8.Slide the new battery into the battery pack.
- 9.Connect the battery connector

Note: Small sparks at the battery connectors are normal during connection.

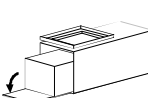
- 10.Push the battery in as far as it will go. There are stops in the back to prevent it from going too far.
- 11.Replace the foam separator.
- 12.Repeat steps 8 - 10 for the second battery.
- 13.Repeat steps 8 - 12 for the two batteries on the other side of the battery pack.
- 14.Close the battery door, replace the battery compartment screws, and replace the front cover.
- 15.Dispose of the old battery properly at an appropriate recycling facility or return it to the supplier in the packing material for the new battery. See the new battery instructions for more information.



Battery Replacement Procedure - Tower XL Battery Packs

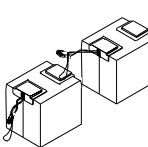


- 1.Grasp the side of the front cover and **tilt** it out and down.



- 2.**Unhook** the bottom of the cover from the chassis and remove it to expose the battery door
- 3.Use a flat-blade screwdriver or a coin to **remove** the two battery door screws and open the door.
- 4.Pull the white cord on the front battery connector to remove the battery connector.
- 5.Grasp the tab and gently **pull** the battery out of the battery pack.
- 6.Reach into the battery compartment and grasp the white cord on the other battery connector. **Pull** firmly to disconnect the connector and remove the second set of batteries.

Note: Be careful removing the batteries - they are heavy..



- 7.Slide the first set of new batteries into the unit. Hold the connector down below the top of the batteries and toward the door, otherwise the assembly will not fit. Guide the connector over the top of the batteries and **press firmly** to connect it to the rear connector of the battery compartment.

Note: Small sparks at the battery connectors are normal during connection.

8. Slide the second set of batteries in, then guide the connector over the batteries and **press firmly** to connect it to the front connector of the battery compartment.
- 9.Now close the battery door, replace the screws, and replace the front cover.
- 10.Dispose of the old battery properly at an appropriate recycling facility or return it to the supplier in the packing material for the new battery. See the new battery instructions for more information.



Specifications

Typical Battery Life	3 to 6 years, depending on number of discharge cycles and ambient temperature	
Operating Temperature	0 to 40°C (+32 to +104°F)	
Storage Temperature	-15 to 45°C (+5 to _113°F)	
Operating and Storage Relative Humidity	0 to 95%, non-condensing	
Operating Elevation	0 to +3,000 m (0 to +10,000 ft.)	
Storage Elevation	0 to +15,000 m (0 to +50,000 ft.)	
Size (H x W x D)	Tower: 21.6 x 17.0 x 43.9 cm (8.5 x 6.7 x 17.3 in.)	Rack Mount: 17.8 x 48.3 x 45.7 cm (7.0 x 19.0 x 18.0 in.)
Weight - net (shipping)	31.3 (33.1) kg 69.0 (73.0) lb.	61.7 (69.4) kg 136.0 (153.0) lb.

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APC Customer Support and Warranty

APC Web site: www.apc.com/jp

Telephone: 03-6402-2030

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