CAUTION



- Batteries can present a risk of electrical shock. or burn from high short-circuit current. Observe proper precautions. Servicing should be performed by qualified service personnel knowledgeable of batteries and required precautions. Keep unauthorized personnel away from
- Proper disposal of batteries is required. Refer to your local codes for disposal requirements.
- Never dispose of batteries in a fire. Batteries may explode when exposed to flame.

Installation

Inspecting the Equipment

If any equipment has been damaged during shipment, keep the shipping cartons and packing materials for the carrier or place of purchase and file a claim for shipping damage. If you discover damage after acceptance,

file a claim for concealed damage.

NOTE Check the battery recharge date on the shipping carton label. If the date has passed and the batteries were never recharged, do not use the EBP. Contact your service

To install the optional EBP(s) for a UPS:

1. Remove the front cover of each EBP (see Figure 1).

Press the panel side with LCD display, hold the other side and quickly extract it, then extract the other side with display. (see Fig.1)

NOTE A ribbon cable connects the LCD control panel to the UPS. Do not pull on the cable or

When remove the panel, Operate as the following right Figure shows instead of the left one.

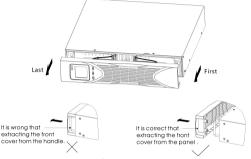


Figure1 Removing the EBP Front Cover

2. On the bottom of the UPS front cover, remove the EBP cable knockout (see Figure 2).

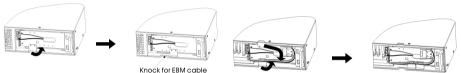


Figure 2 Removing the UPS and EBP Cable Knockout

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CAUTION

A small amount of arcing may occur when connecting an EBP to the UPS. This is normal and will not harm personnel. Insert the EBP cable into the UPS battery connector quickly and firmly.

3. Plug the EBP cable(s) into the battery connector(s) as shown in Figure 3. Up to four EBPS may be connected to the UPS. Connect red to red, black to black, and yellow to yellow. Press the two parts tightly together to ensure a proper connection.

To connect a second EBP, unclip the EBP connector on the first EBP and pull gently to extend the wiring to the EBP connector on the second EBP. Repeat for any additional EBPS.

4. Verify that the EBP connections are tight and that adequate bend radius and strain relief exist for each cable

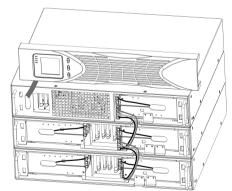


Figure 3 Typical EBP Installation

5. Replace the EBP front cover.

To replace the cover, verify that the EBP cables are routed through the EBP cover knockouts, cover connects with the cover hook near the left side of the EBP cabinet. Repeat for each additional EBP.

Put the front panel side with display to the panel port, put another side to the other two ports, then press it until the panel and the chassis are combined tightly.

6. Verify that all wiring connecting the UPS and EBP(s) is installed behind the front covers and is inaccessible to users.

7. Return to Step 1 to continue the EBP installation

Operation

Configuring Battery Settings

Set the UPS for the number of EBMs installed.

To ensure maximum battery runtime, configure the UPS for the correct

number of EBMs, refer to Table 8 for the appropriate setting of battery numbers and type. Use the up and down buttons to select the number of battery strings according to your UPS configuration:

Table 2. Battery number Configuration

1KVA to 3KVA RT UPS Extended Battery Pack



User's Guide

Special Symbols

The following are examples of symbols used on the UPS or accessories to alert you to important information:



RISK OF ELECTRIC SHOCK - Observe the warning associated with the risk of electric shock symbol.



CAUTION: REFER TO OPERATOR'S MANUAL - Refer to your operator's manual for additional information, such as important operating and maintenance instructions



This symbol indicates that you should not discard the UPS or the UPS batteries in the trash. This product contains sealed, lead-acid batteries and must be disposed of properly. For more information, contact your local recycling/reuse or hazardous waste center.



This symbol indicates that you should not discard waste electrical or electronic equipment (WEEE) in the trash. For proper disposal, contact your local recycling/reuse or hazardous waste center.

Introuduction

The extended battery pack can be added to UPS to extend the available battery time(See Table1). Up to four EBPS can be installed with the ups.

Table 1. Battery Runtimes (in Minutes) at 100% Load (Tower Models)

Model	Internal Batteries	+ 1 EBP	+ 2 EBPs	+ 3 EBPs	+ 4 EBPs
1K	5	22	41	65	87
2K	5	23	44	71	100
3K	3	17	31	52	69

NOTE Battery times are approximate and vary depending on the load configuration and battery charge.

Safety Warnings

IMPORTANT SAFETY INSTRUCTIONS **SAVE THESE INSTRUCTIONS**

This manual contains important instructions that you should follow during installation and maintenance of the EBP. Please read all instructions before operating the equipment and save this manual for future reference.

All UPS and EBP Cabinets	Number of Battery Strings	
UPS only (internal batteries)	1 (default)	
UPS+1EBP	3	
UPS+2EBPs	5	
UPS+3EBPs	7	
UPS+4EBPs	9	

NOTE The UPS contains one battery string; each EBM contains two battery strings.

5. Maintenance

Replacing Batteries

NOTE DO NOT DISCONNECT the batteries while the UPS is in Battery mode.



The EBP can be replaced when UPS is ON , but be aware that if the utility fails at that time , the load of the UPS may NOT be protected. If you prefer to remove input power to change the batteries.

WARNING

- Servicing should be performed by qualified service personnel knowledgeable of batteries and required precautions. Keep unauthorized personnel away from batteries.
- Batteries can present a risk of electrical shock or burn from high short circuit current.
 Observe the following precautions: 1) Remove watches, rings, or other metal objects;
 Use tools with insulated handles;
 Do not lay tools or metal parts on top of batteries,
 Wear rubber gloves and boots.
- When replacing batteries, replace with the same type and number of batteries or battery packs. Contact your service representative to order new batteries.
- Proper disposal of batteries is required. Refer to your local codes for disposal requirements.
- · Never dispose of batteries in a fire. Batteries may explode when exposed to flame.

Replacing RT EBPs



CAUTION

The EBP is heavy. Lifting the cabinet requires a minimum of two people.

- 1. If the battery fault, the following steps are provided for modular unit to replace the new battery pack.
- 2. Remove the front panel of the battery box.
- 3. Remove the connection cables between battery box and UPS. Release the screw of the baffle of the battery pack as the Fig4 shows, then remove the baffle from the left.

-4-

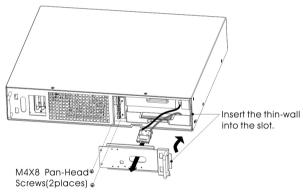


Fig.4 Installation for battery pack baffle(UPS)

4. Grasp the handle in front of the battery pack, take out of it and hold it, then remove the battery pack. (see Fig.4)

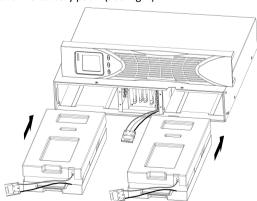


Fig.5 Installation for battery pack

5. Hold the middle of the new battery pack, insert it. Make sure that the whole battery pack is in position. (see Fig. 6)

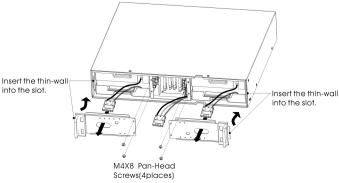
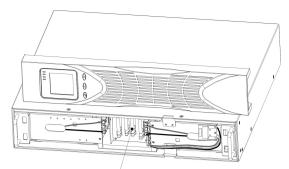


Fig. 6 Installation for battery pack baffle

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6. If the fuse melting, replace it from the front. (see Fig.7)



Take Out The Fuse From Here.

Fig.7 Replacement of fuse

Testing New Batteries

To test new batteries:

- 1. Plug the UPS into a power outlet for 48 hours to charge the batteries.
- 2. Start up the UPS by pressing the start up combination button.
- 3. Press the battery test combination button to activate the battery test.

The UPS starts a battery test if the batteries are fully charged, the UPS is in Normal mode with no active alarms, and the bypass voltage is acceptable. During the battery test, the UPS transfers to Battery mode and discharges the batteries for 10 seconds. The LED indicators of the front panel stop cycling when the test is completed.

Recycling the Used Battery

Contact your local recycling or hazardous waste center for information on proper disposal of the used battery or UPS.



WARNING

- Do not dispose of the battery or batteries in a fire. Batteries may explode. Proper disposal of batteries is required. Refer to your local codes for disposal requirements.
- Do not open or mutilate the battery or batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.

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CAUTION

Do not discard the battery pack or the batteries in the trash. This product contains sealed, lead-acid batteries and must be disposed of properly. For more information, contact your local recycling/reuse or hazardous waste center



CAUTION

Do not discard waste electrical or electronic equipment (WEEE) in the trash. For proper disposal, contact your local recycling/reuse or hazardous waste center.

6 Specifications

Table 3. Battery

	Internal Batteries	EBPs		
Tower Configuration	1K -EBP: 36 Vdc (2 x 3 ,12V, 7 Ah) 2K -EBP: 72 Vdc (2 x 6 ,12V, 7 Ah) 3K -EBP: 72 Vdc (2 x 6 ,12V, 9 Ah)			
Fuses	30A/250 Vdc fuses per EBP			
Туре	Sealed, maintenance-free, valve-regulated, lead-acid, with minimum 3-year float service life at 25°C (77°F)			
Monitoring	Advanced monitoring for earlier failure detection and warning			
Recharge Time (to 90%)	Internal batteries: 3 hours 1 EBP: 9 hours; 2 EBPs: 15 hours; 3 EBPs: 21 hours; 4 EBPs: 27 hours			

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