

User Manual Battery Pack

1. Important Safety Warnings

Please comply with all warnings and operating instructions in this instruction strictly. Read carefully the following instructions before installing the unit. Do not operate this unit before reading through all safety information and operating instructions carefully.

- Do not try to assemble or repair the unit yourself, contact your local supplier, seek for help of qualified technician
- To eliminate any overheating of the battery box, keep all ventilation openings free from obstruction and do not place any foreign objects on top of the battery bank. Keep the battery box 20 cm away from the wall.
- Make sure the battery box is installed within the proper environment as specified. (0-40°C and 30-90% non-condensing humidity)
- Do not install the battery box under direct sunlight. Your warranty will be void if the batteries fail due to overheating.
- This battery box is not designed for use in dusty, corrosive and salty environment.
- The warranty for this battery bank will be void if water or other liquid is spilled or poured directly onto the battery box. Similarly we do not warrant any damage to the battery box if foreign objects are deliberately or accidentally inserted into the battery box enclosure.
- The battery will discharge naturally if the system is unused for a period of time.
- It should be recharged every 2-3 months if unused. If this is not done, then the warranty will be null and void. During normal operation, the batteries will be automatically remained in charged condition.
- Servicing of batteries should be performed or supervised by trained personnel with knowledge of batteries and the required precautions.
- When replacing batteries, it is necessary to replace ALL batteries with the same quantity, type & capacity.
- CAUTION – Do not dispose of battery or batteries in a fire. The battery may explode.
- CAUTION – Do not open or mutilate the batteries. The electrolyte from the batteries is toxic and harmful to the skin and eyes.
- CAUTION – Risk of Electric Shock –Hazardous voltage may exist between battery terminals and ground. Test before touching with bare hands.

- CAUTION – A battery can present a risk of electrical shock and high short circuit current. The following precaution should be observed when working on batteries:
 1. Remove watches, rings, or other metal objects.
 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 battery terminals.
- Do not plug or unplug the battery connector if UPS works in DC (discharging) mode.

Installation and Setup

NOTE: Before installation, please inspect the unit. Be sure that nothing inside the package is damaged. Please keep the original package in a safe place for future use

Storage & Maintenance

The unit contains no user-serviceable parts. If the battery service life (3~5 years at 25°C ambient temperature) has been exceeded, the batteries must be replaced. In this case, please contact your dealer.

Be sure to deliver the spent battery to a recycling facility or ship it to your dealer in the replacement battery packing material.

Storage

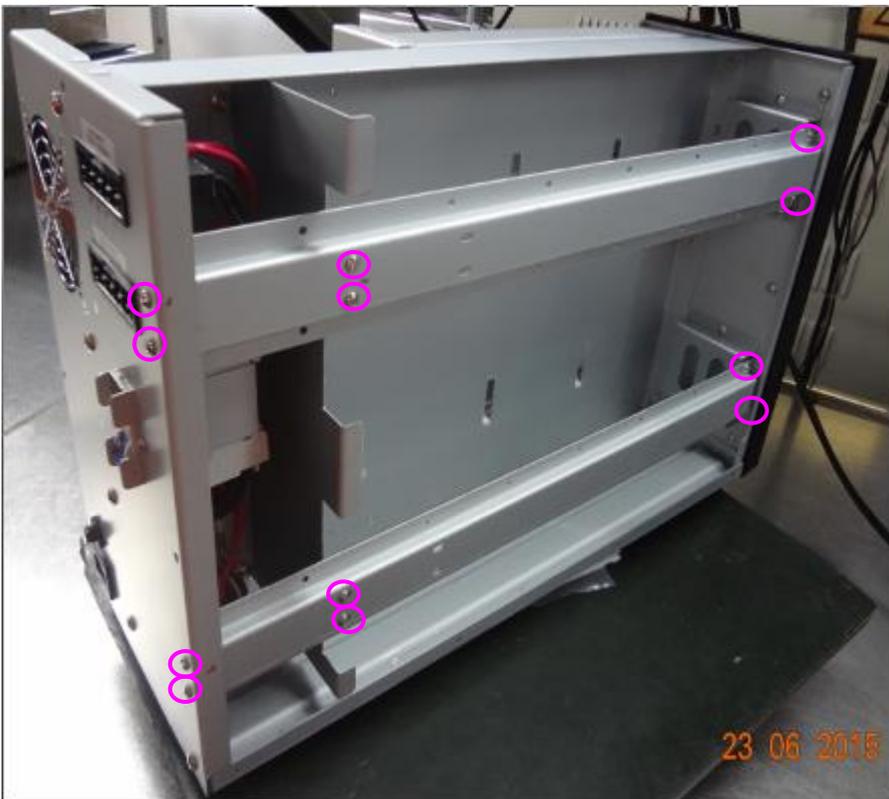
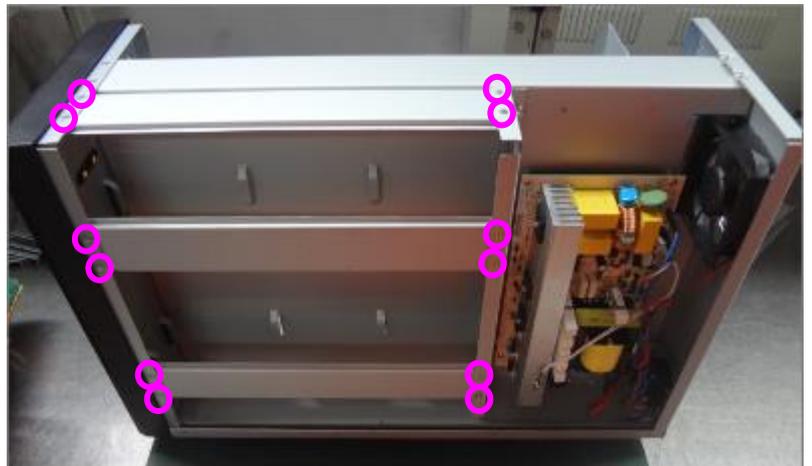
Before storing, charge the unit 4 hours. Store the unit covered and upright in a cool, dry location. During storage, recharge the battery in accordance with the following table:

Storage Temperature	Recharge Frequency	Charging Duration
-25°C - 40°C	Every 3 months	1-2 hours
40°C - 45°C	Every 2 months	1-2 hours

S.O.P. - How to assemble BP A36T-18x9Ah+3A

Step 1

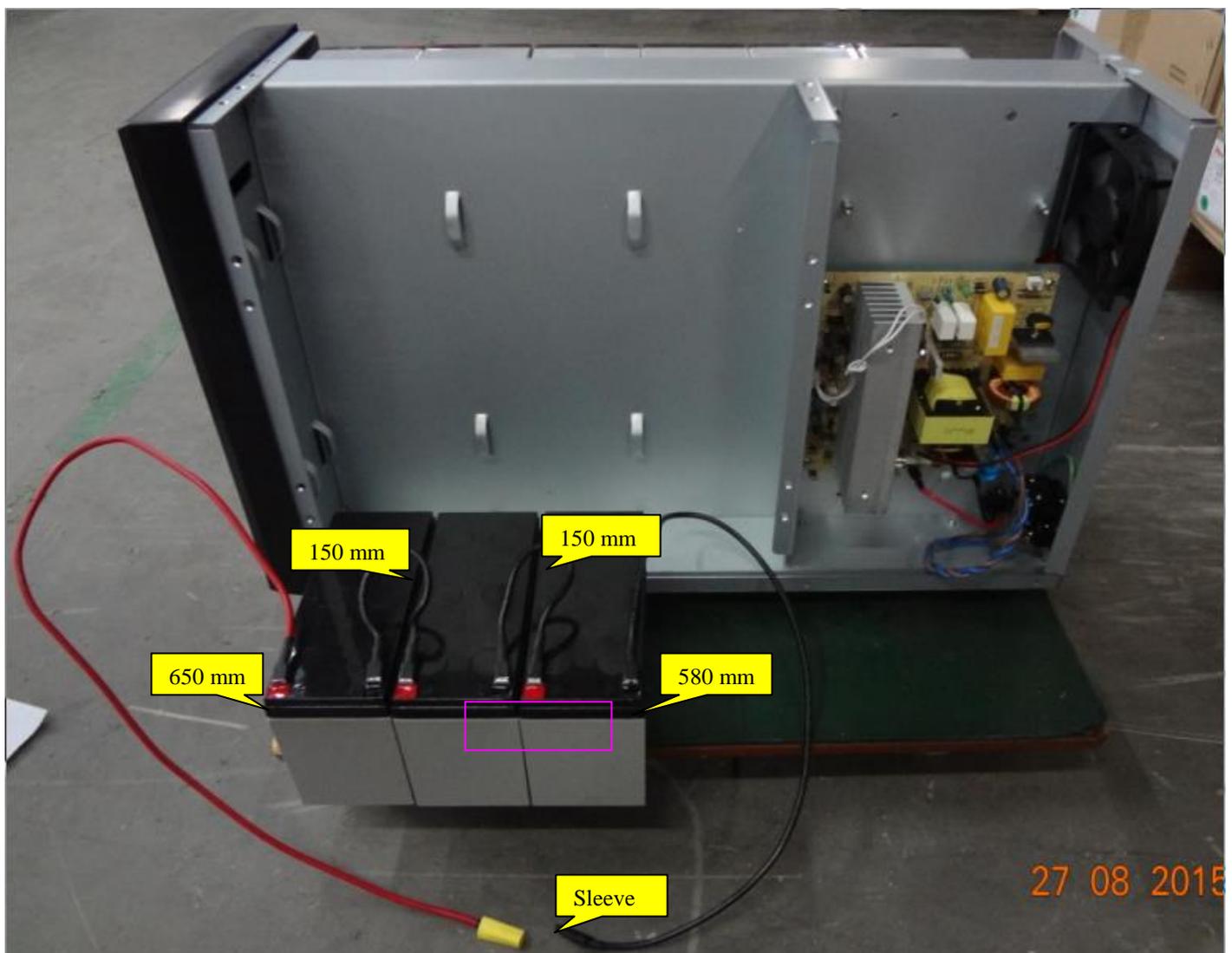
1、 Remove the cover and the battery baffle (keep the screws and battery baffle well)



Step 2

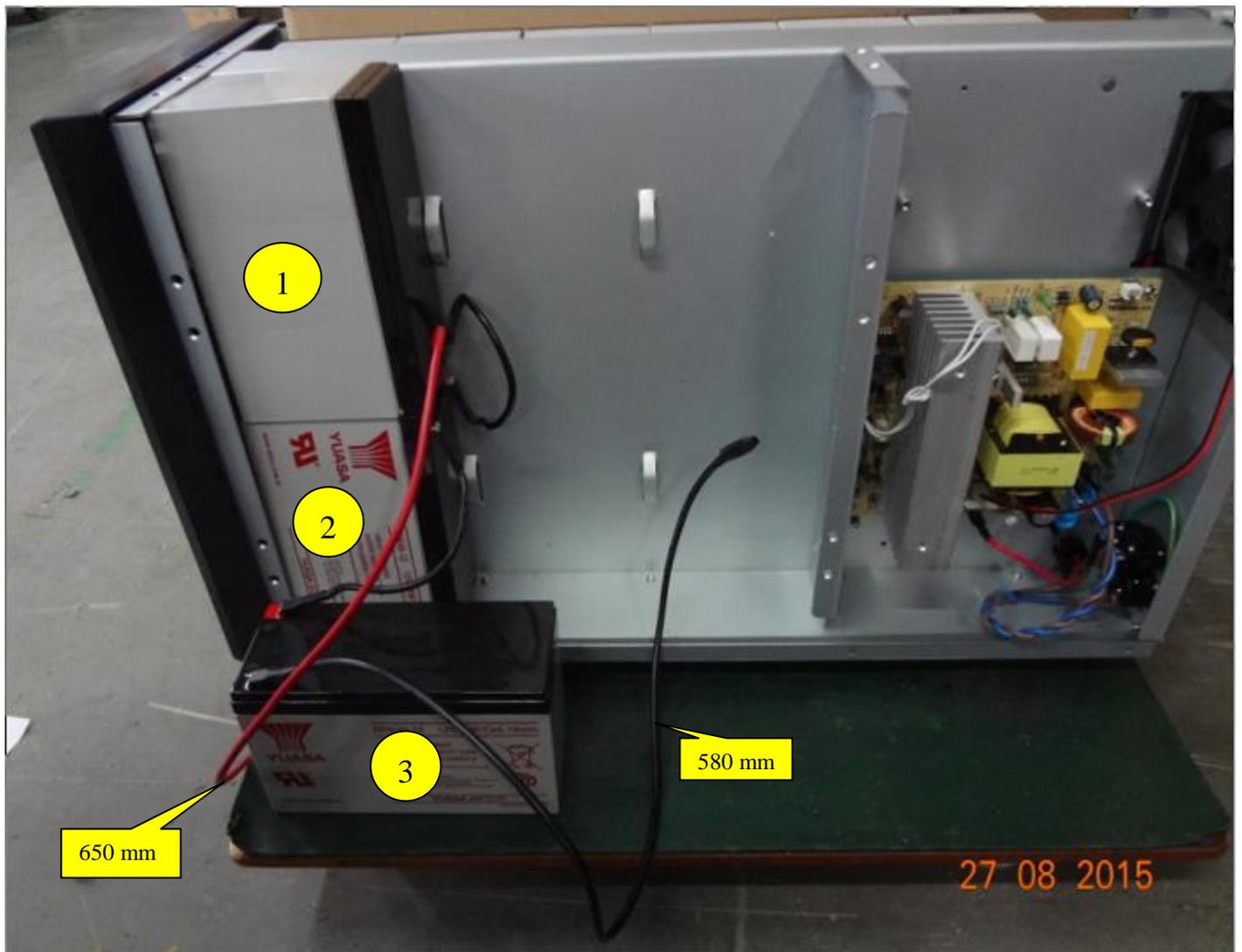
- 1、 As shown below: take 1-3 batteries, connect them with 2 black wires (150mm)
- 2、 Take a black wire (580mm) and plug it on the cathode (black terminal) of the 3rd battery
- 3、 Take a red wire (650mm) and plug it on the anode (red terminal) of the 1st battery

Attention: The other end of the black and red wire must be wrapped with sleeve (avoid short circuit).



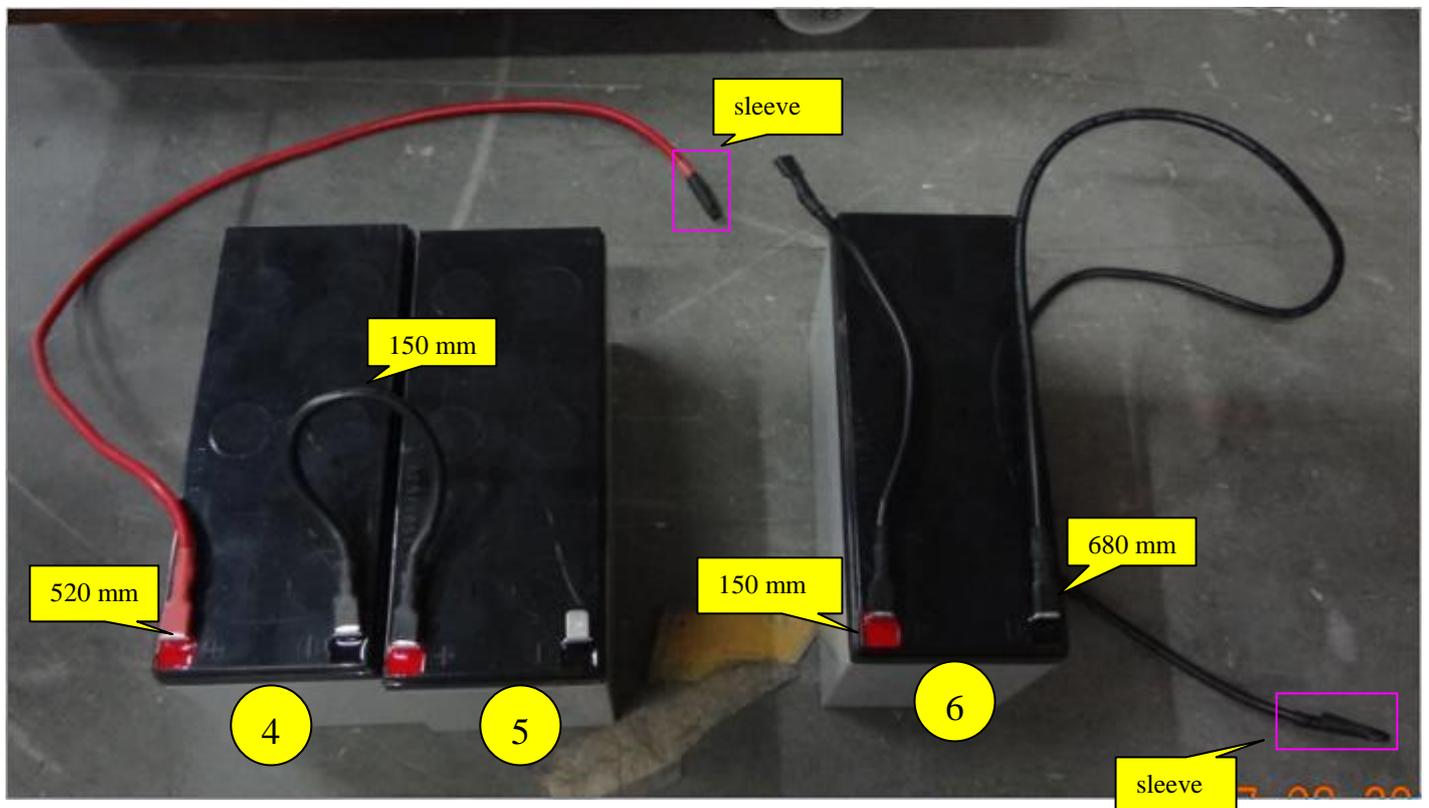
Step 3

1、 As shown below, insert the 1st and 2nd batteries on the left (leave the 3rd battery alone)



Step 4

- 1、As shown be;pw: take another 4-6 batteries, connect them with 2 black wires (150mm)
 - 2、Take a red wire (520mm) and plug it on the anode (red terminal) of the 4th battery
 - 3、Take a black wire (680mm) and plug it on the cathode (black terminal) of the 6th battery;
- Attention: The other end of the black and red wire must be wrapped with sleeves (avoid short circuit).



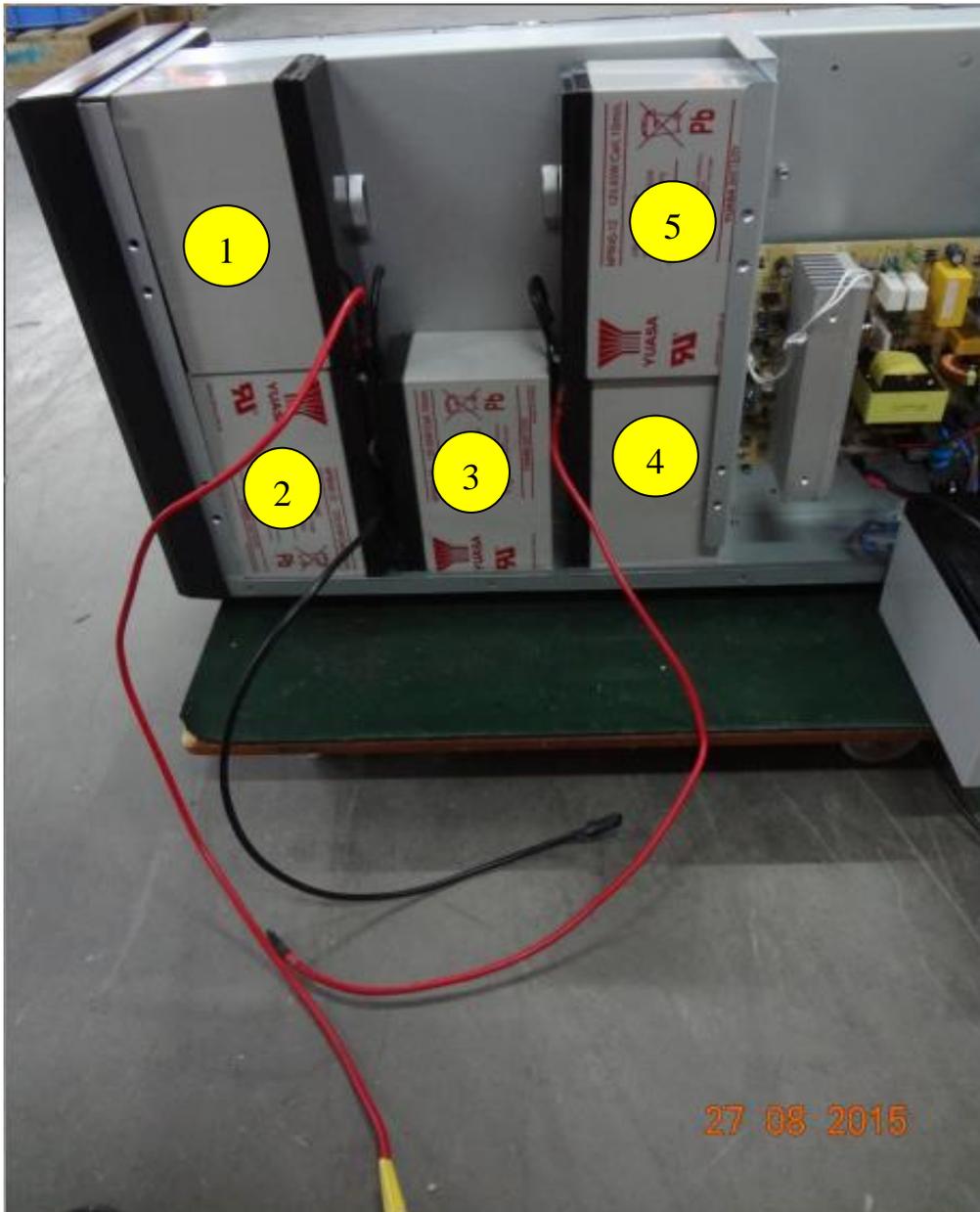
Step 5

1、 As shown below, put the 4th and 5th batteries on the right (leave the 6th battery alone)



Step 6

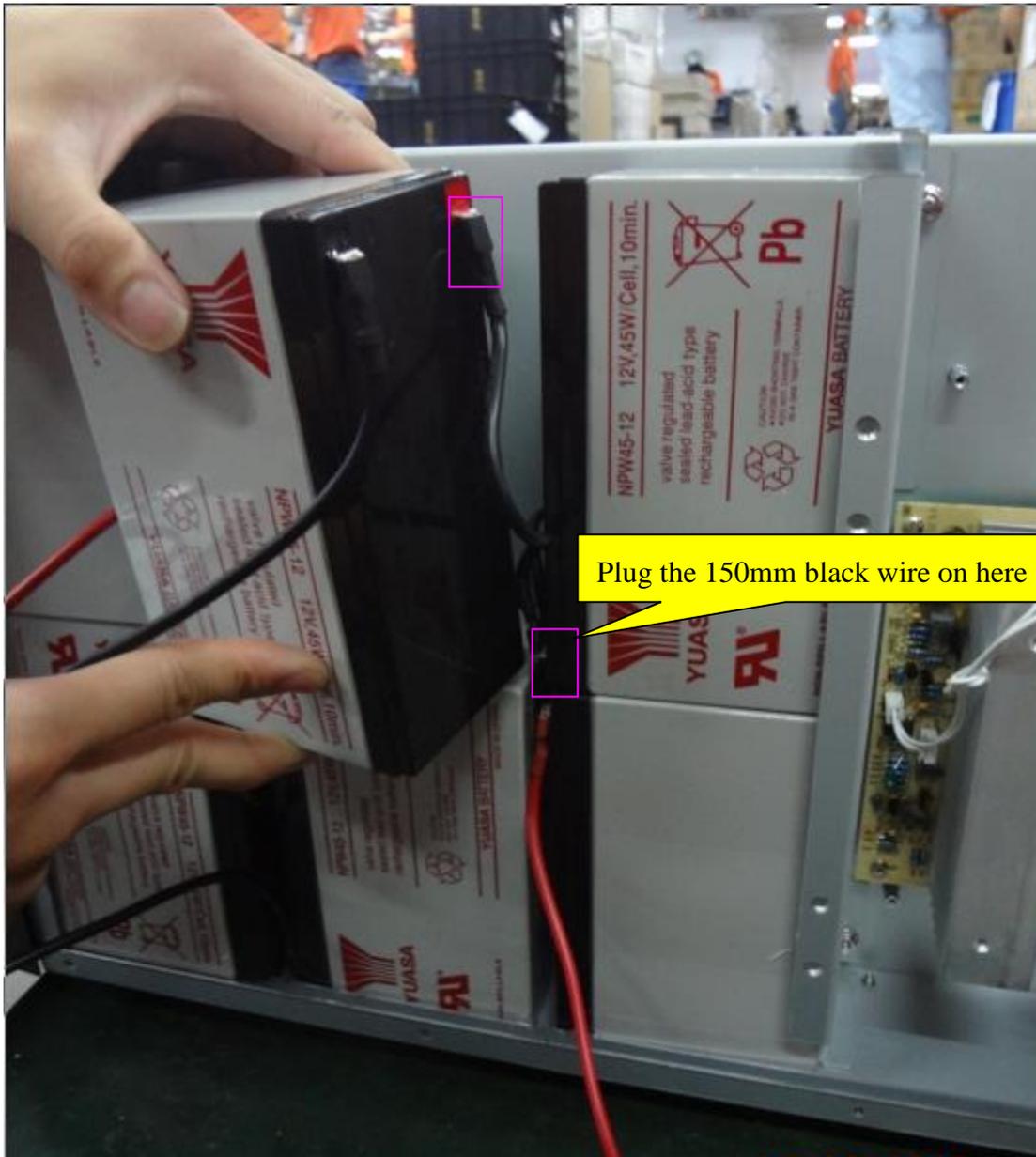
- 1、 As shown below: Put the 3rd battery (connected with black wire) in the middle bottom.
Attention: keep battery terminal down and towards to the front panel.



Step 7

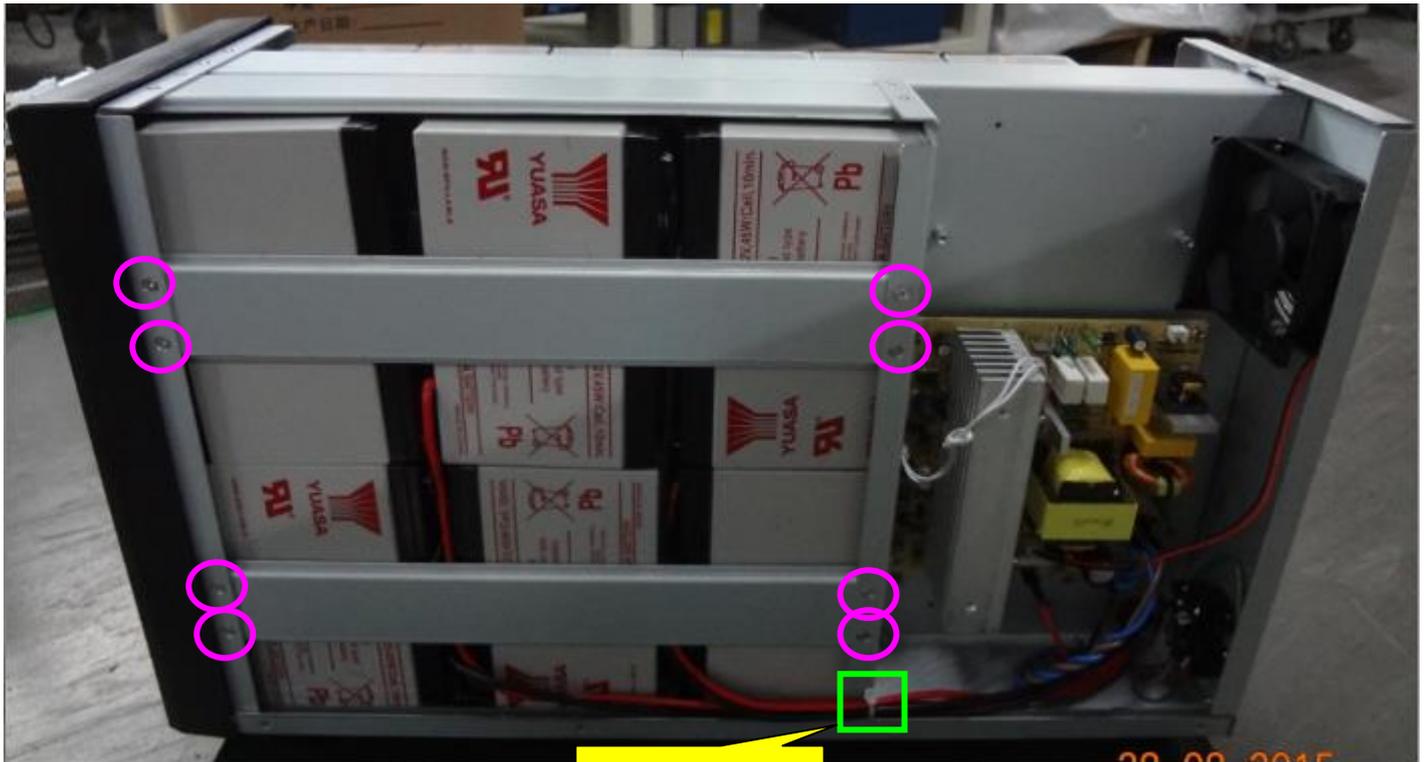
1. As shown below: Put the 6th battery above the 3rd battery and plug the 150mm black wire on the terminal of the 5th battery.

Attention: keep the 6th battery terminal up and towards the rear panel.

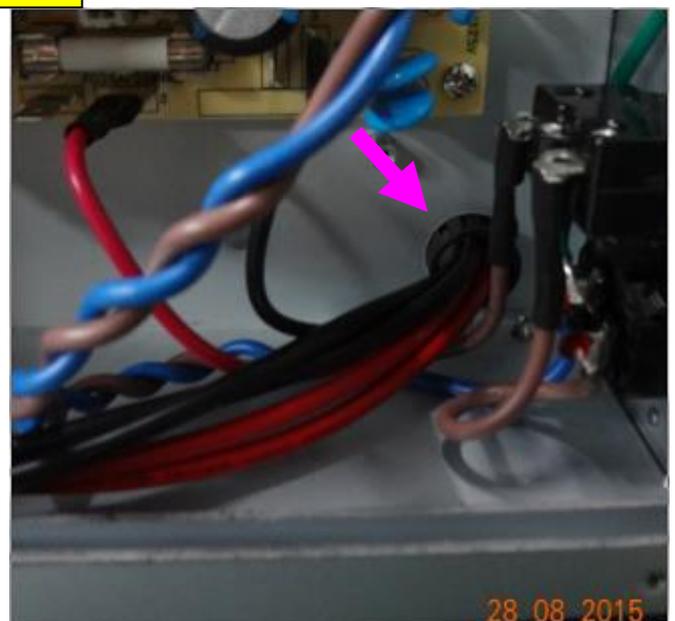


Step 8

- 1、 As shown below: Tie up the wires, take the short battery baffle and lock it to the main structure, Screws: 38-000028-XXG*8, Torsion: 8kgs
- 2、 As shown below: put the four battery wires (with sleeve in the end) across the hole below the partition.



Binding wire



Step 9

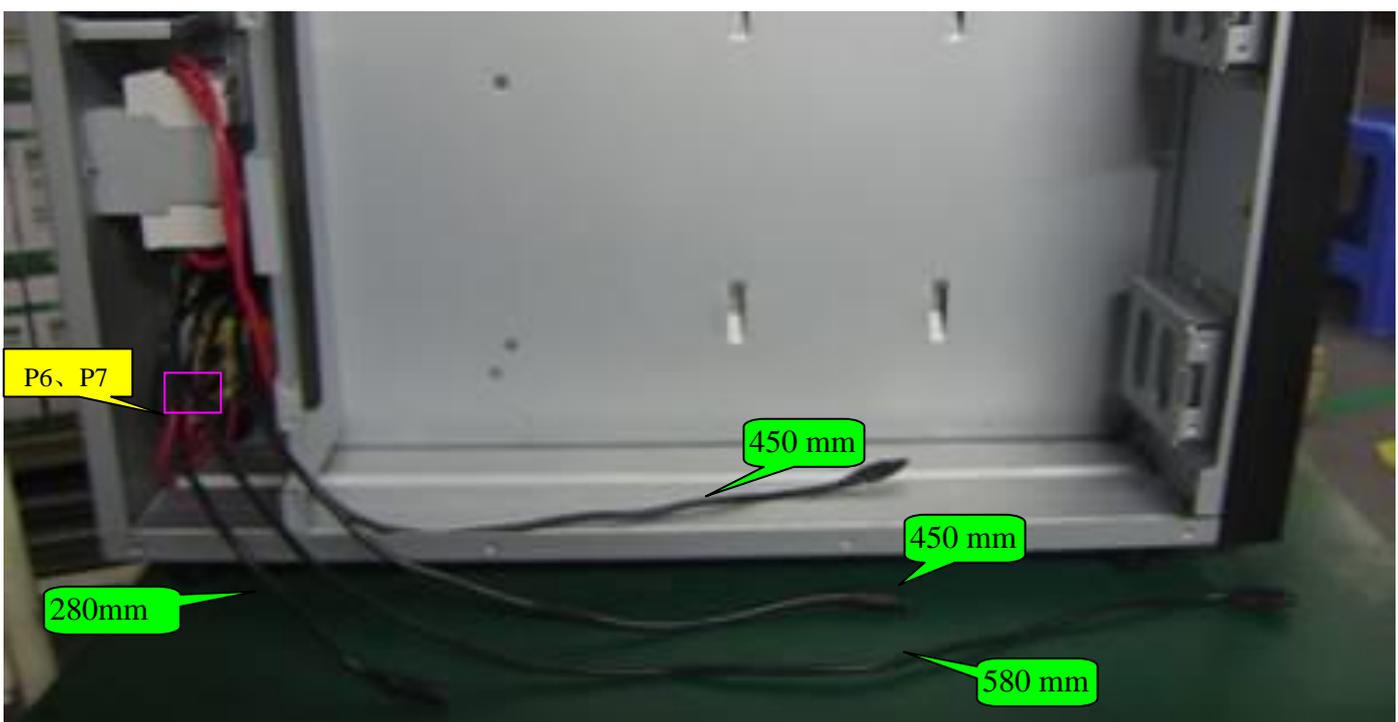
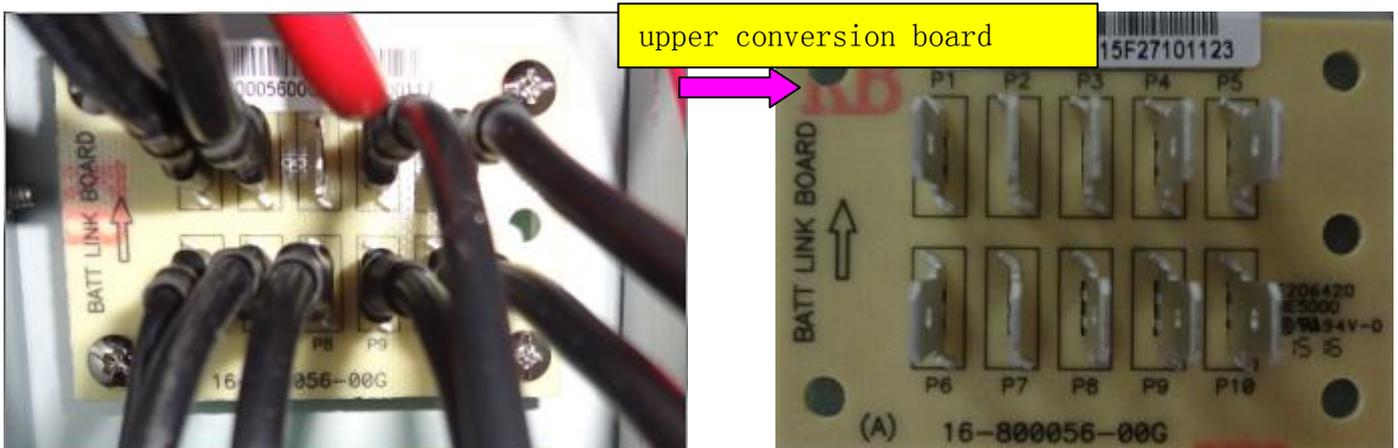
1. Block the battery baffle to the main structure, screws: 38-000028-XXG*4, torsion: 8kgs



Step 10

1. As shown below: plug the red and black battery wires which cross the hole to the terminal (P7、P8) of the upper conversion board, , plug the red wire to the terminal (P6、P7) of the lower conversion board.
2. Take a 280mm black wire and plug it to the terminal (P4) of the upper conversion board.
3. Take a 580mm black wire and plug it to the terminal (P5) of the upper conversion board.
4. Take two 580mm black wire and plug it to the terminal (P9、P10) of the upper conversion board.

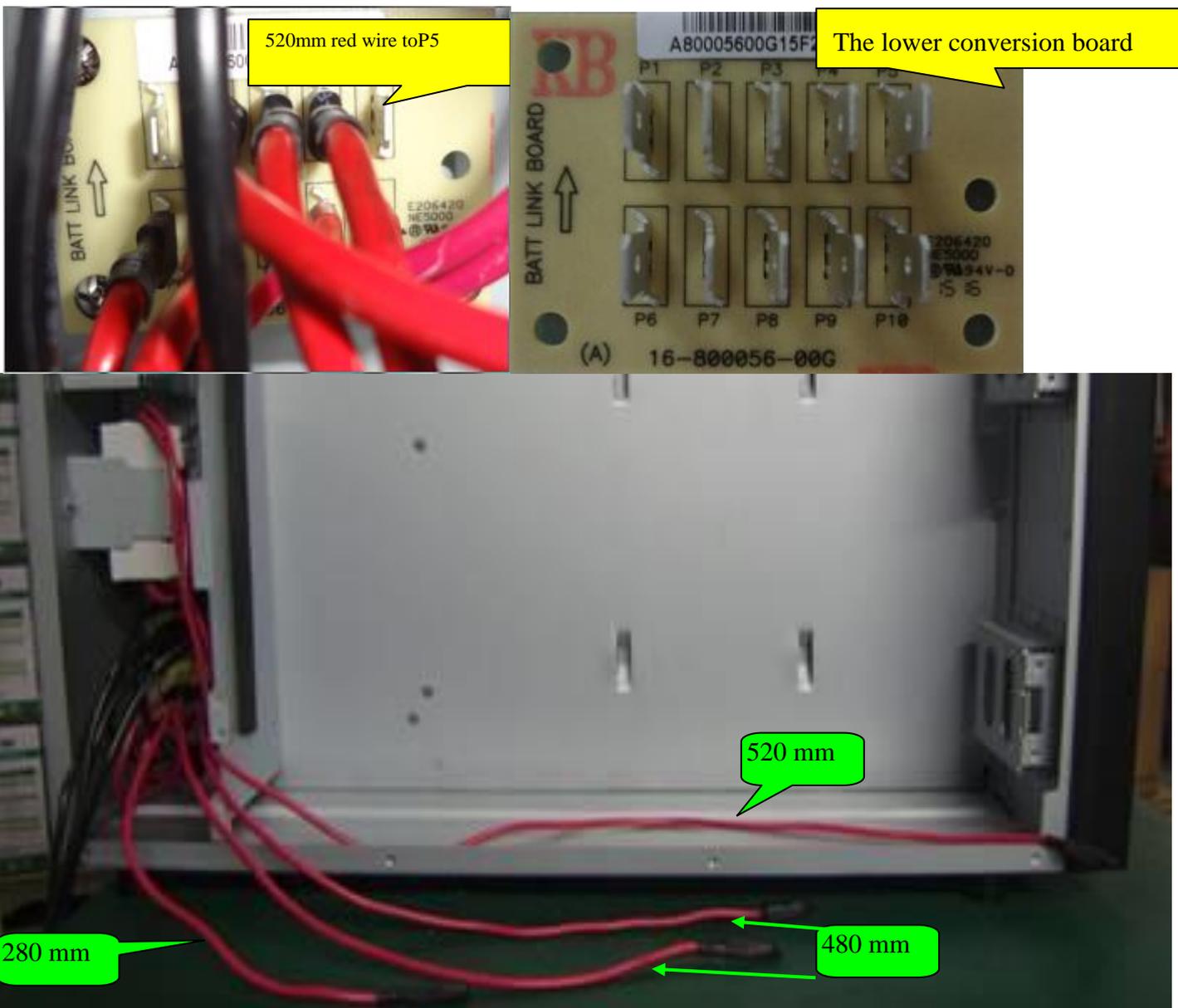
Attention: the other end of the four black wires must with sleeves, avoid short circuit.



Step 11

- 1、 As shown: take a 280mm red wire and plug it to the terminal(P2) of the lower conversion board.
- 2、 As shown: take two 480mm red wires and plug them to the terminal(P3、 P4) of the lower conversion board.
- 3、 As shown: take a 520mm red wire and plug it to the terminal(P5) of the lower conversion board;

Attention: The other end of the four red wires must with sleeves, avoid short circuit.



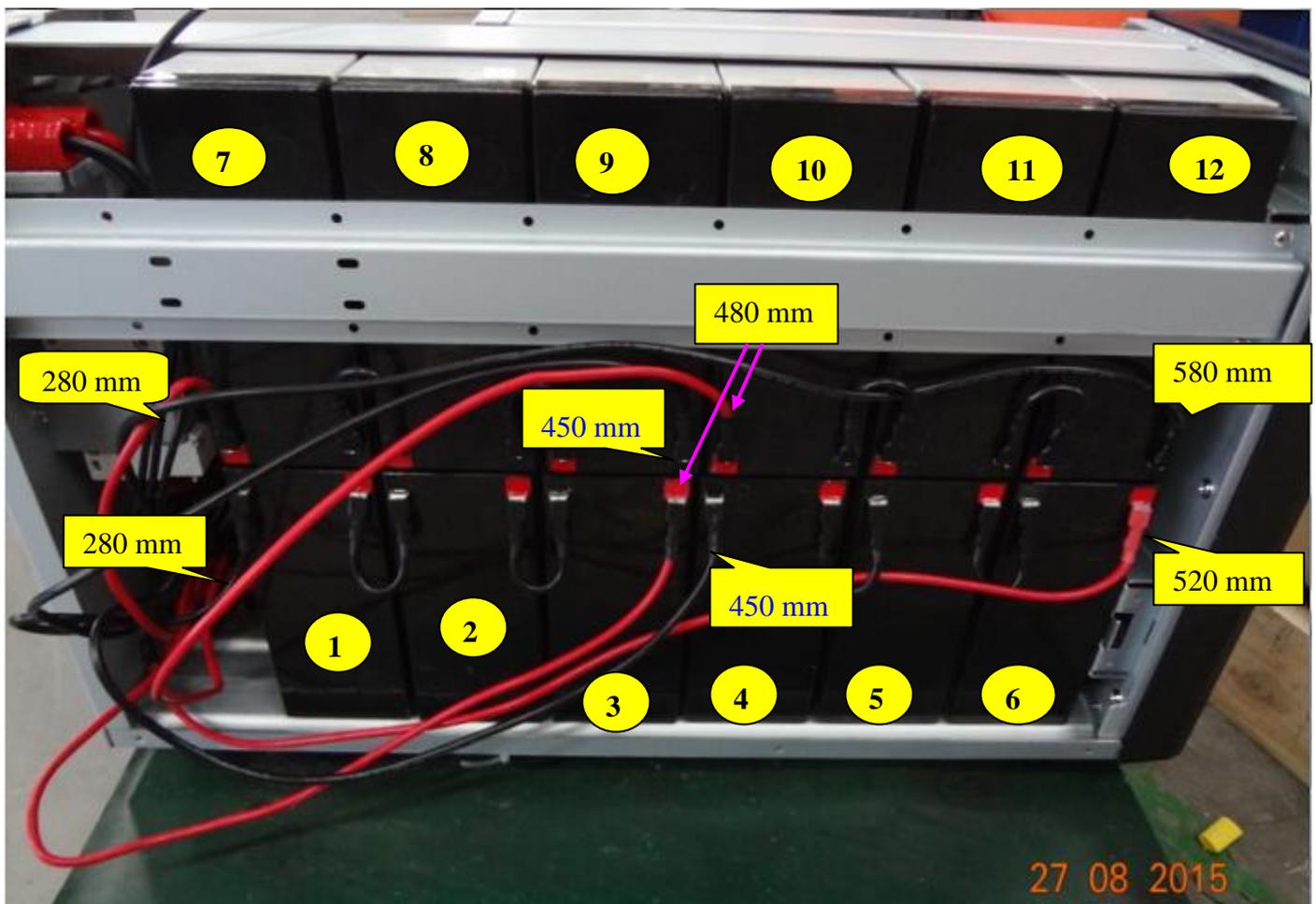
Step 12

- 1、 As shown: take another 12 batteries and put them in the other side of the main structure. (**attention: the battery terminal should not touch the metal, avoid short circuit**)
- 2、 As shown: take the long battery baffle and block it to the main structure; screws: 38-000008-00G*4, torsion: 8kgs
- 3、 As shown: take 8 black 70mm wires, and connect the batteries as shown below.



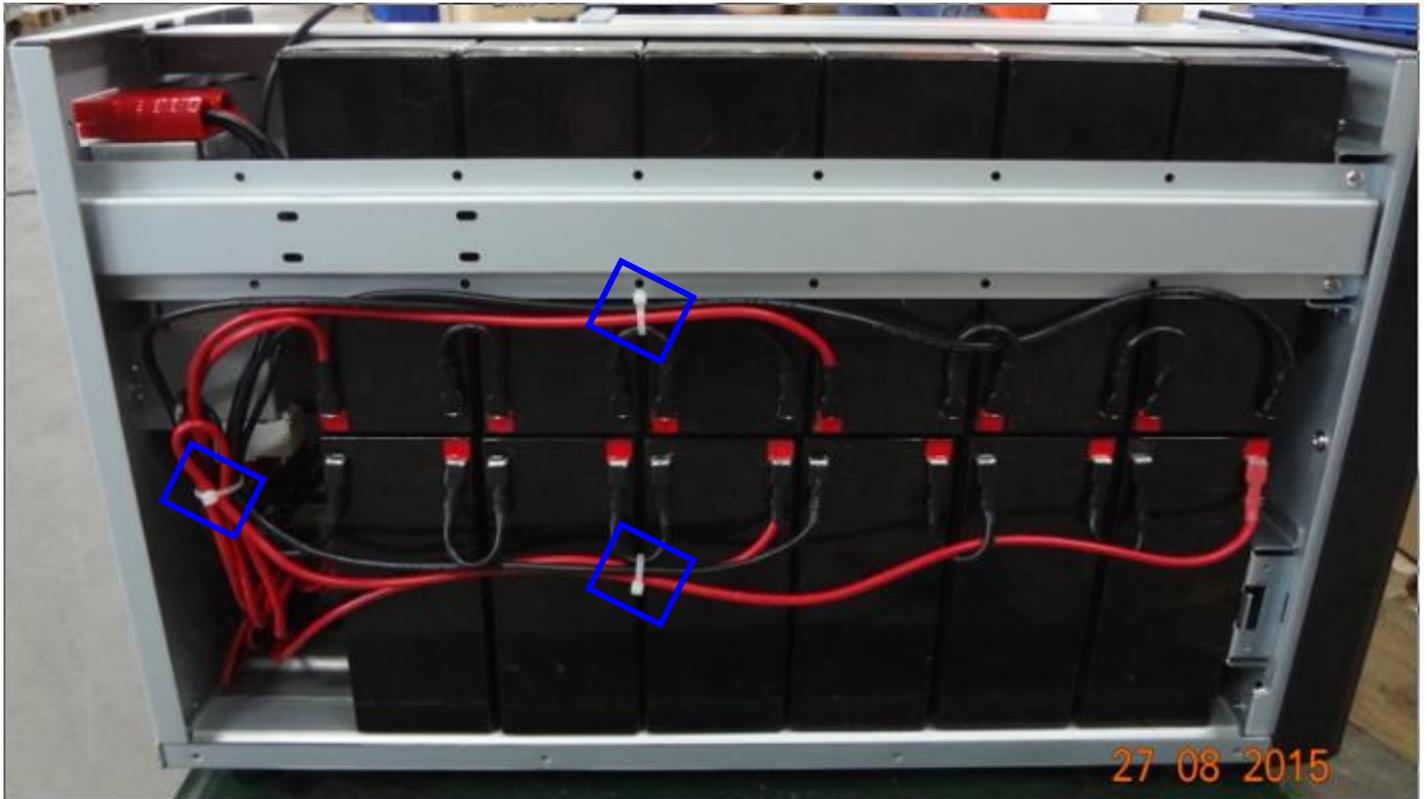
Step 13

1. As shown: plug the 280 mm red wire to the anode of the 7th battery (red terminal) ;
2. As shown: plug the 480 mm red wire to the anode of the 10th battery (red terminal) ;
3. As shown: plug the 480 mm red wire to the anode of the 3rd battery (red terminal) ;
4. As shown: plug the 520 mm red wire to the anode of the 6th battery (red terminal) ;
5. As shown: plug the 450 mm black wire to the cathode of the 9th battery (black terminal) ;
6. As shown: plug the 450 mm black wire to the cathode of the 4th battery (black terminal) ;
7. As shown: plug the 580 mm black wire to the cathode of the 12th battery (black terminal) ;
8. As shown: check the wire, make sure it is right, plug the 280 mm black wire to the cathode of the 1st battery (black terminal) 。



Step 14

1、 As shown: tie up the wires, fix the wires with binding wire。



Step 15

1. As shown: fix the lower batteries with battery baffle, screws: 38-000008-00G*8, torsion: 8kgs.
- 2.

Attention: battery baffle does not touch the battery terminal, avoid short circuit.



Step 16



1. As shown: put back the rear panel to the machine.
screws: 38-000020-XXG*3, flank screws: 38-000029-XXG*8, torsion: 8kgs
2. Apply the warning label to the top.

