



## **SBS-S SERIES DC LOAD BANK USER MANUAL**

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## **ATTENTIONS**

## **AFTER-SALE SERVICE**

## OPERATING INSTRUCTIONS

### 1. Environments Requirement

Should be NO CORROSIVE, NO EXPLOSIVE, NO ELECTRICAL BREAKDOWN AIR OR CONDUCTIVE DUST.

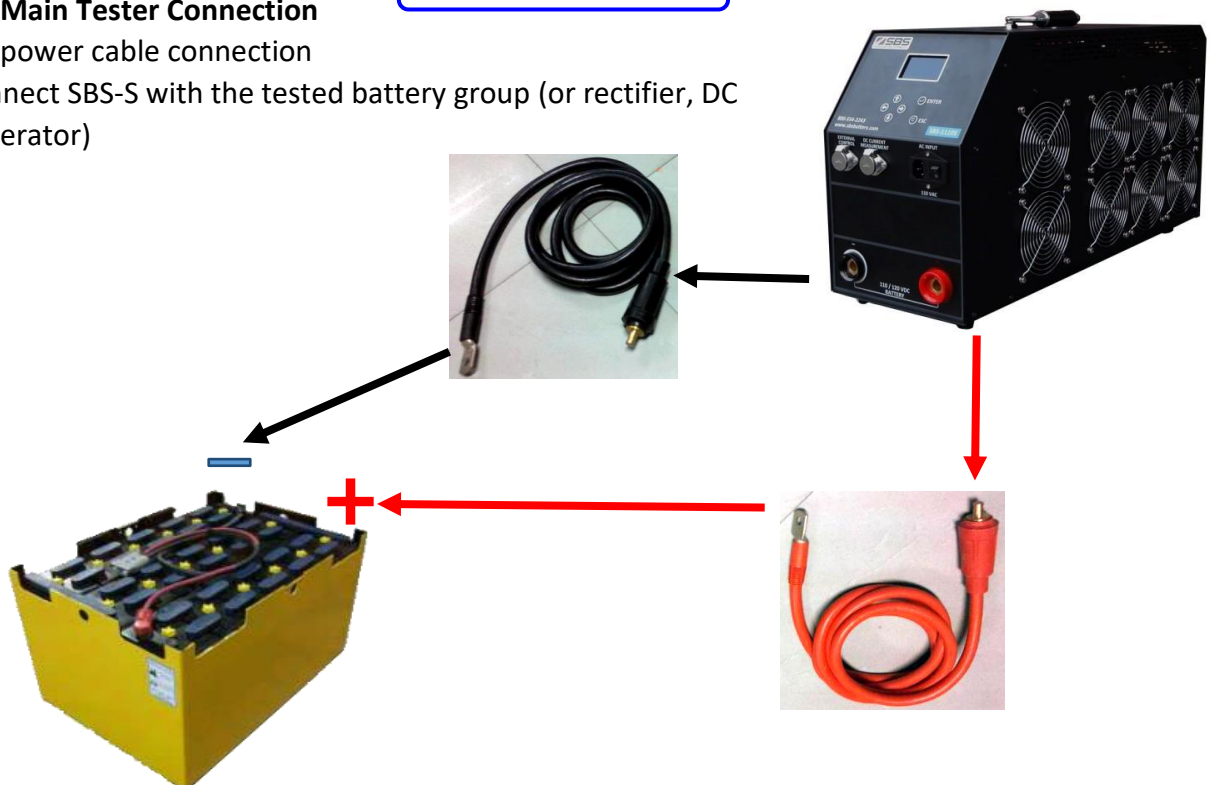
### 2. Main Tester Description



### 3. Main Tester Connection

#### 3.1 power cable connection

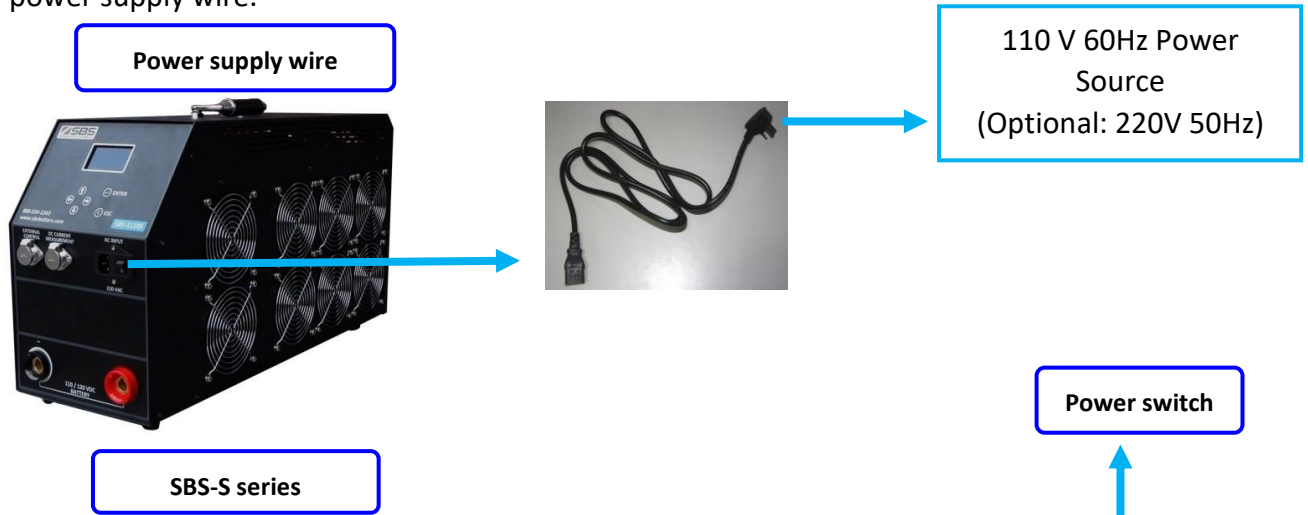
Connect SBS-S with the tested battery group (or rectifier, DC generator)



3.2 power supply connection

3.2.1 SBS-4815S, SBS-4830S will take DC power supply from the tested DC devices, so there are no power supply connection for these types.

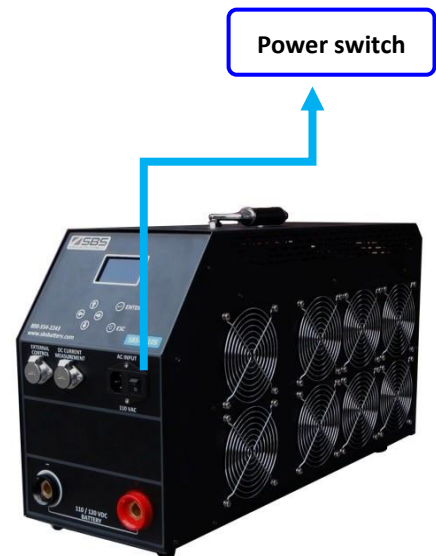
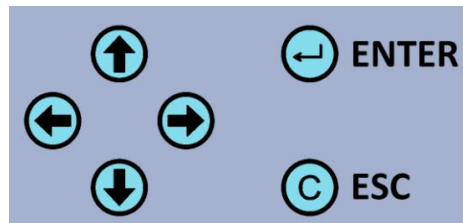
3.2.2 For other SBS-S series types, connect SBS-S with AC 220V 50Hz power source by power supply wire.



4. Starting Up And Input Operation

4.1 After the main tester connection, turn on the power switch to start up SBS-S.

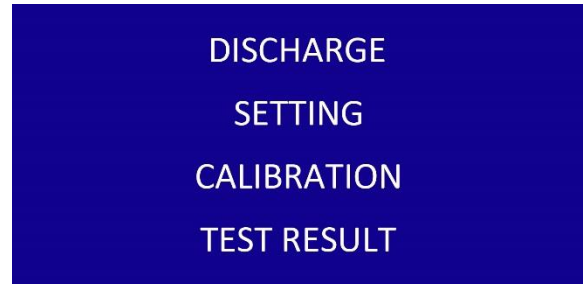
4.2 All input operation of SBS-S based on 6 control buttons beneath the LCD screen.



4.3 In the welcome interface, you can see our company name, the type name, tester name. Press any key into main menu, if 10 more seconds without press, the system will jump to main menu automatically.









Welcome interface









Main menu





## 5. Parameter setting

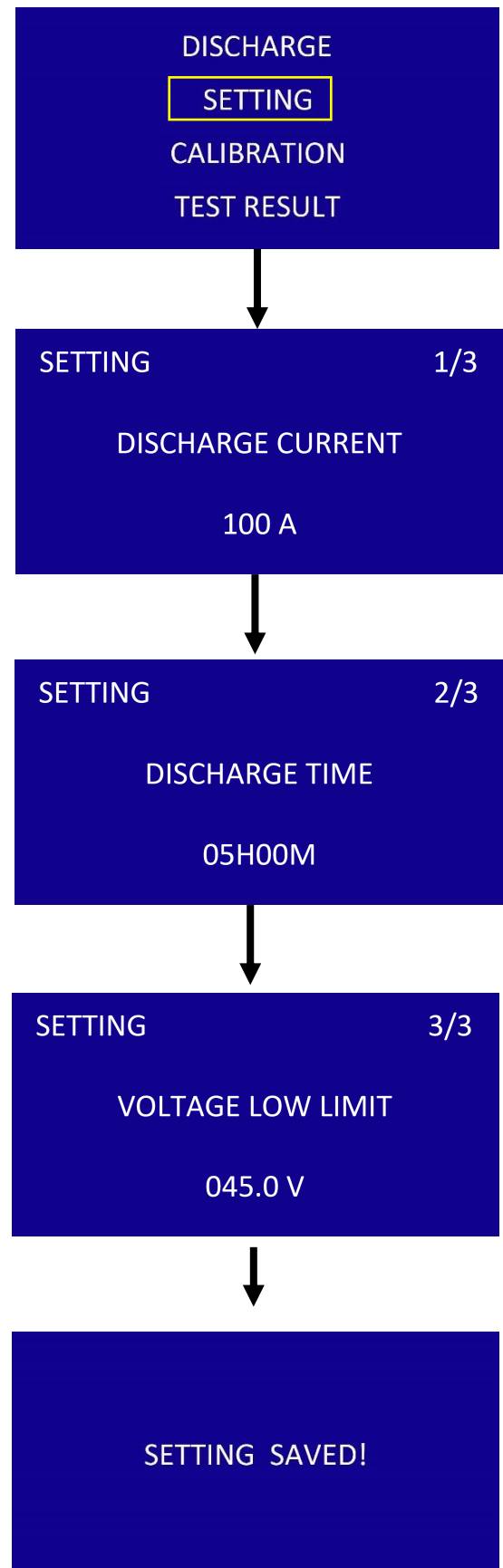
5.1 In main menu, please use  &  to choose 'Setting', press  into setting interface. There are 4 parameters need to be set before testing.

5.2 Set the discharge current by  & , and press  go to next parameter.

5.3 Set discharge time by  & , and press  go to next parameter. (If the discharge time is over the setting value, SBS-S will terminate the test automatically.)

5.4 Set voltage stop threshold by  & , and press  go to next parameter. (If the voltage go below the setting value, SBS-S will terminate the test automatically.)

5.5 please use  &  to locate the item you need for changing the setting. And press  to confirm the setting and LCD will show "setting saved!" message. Press  back to main menu.



## 6. Start discharge

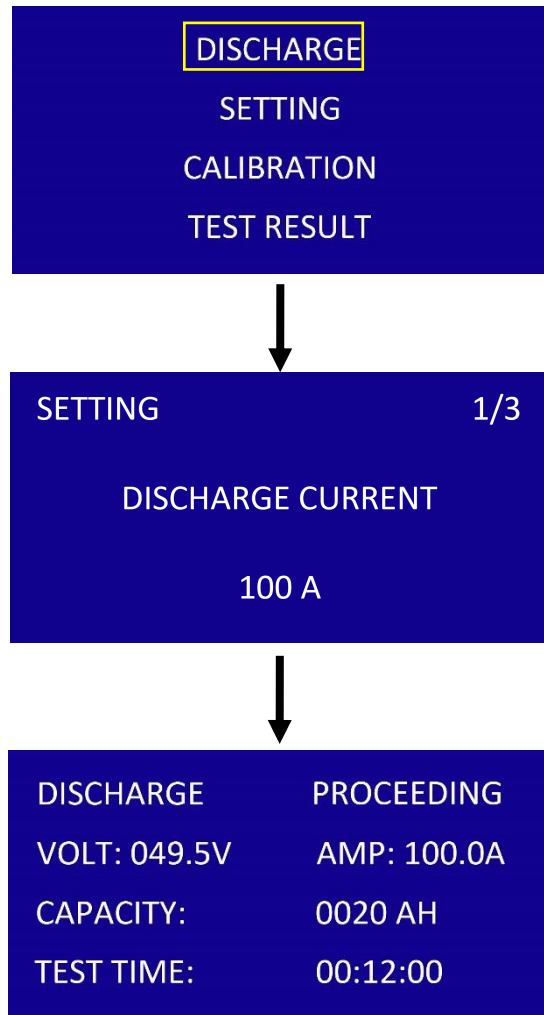
6.1 In main menu, please use & to choose 'Discharge', press ENTER into it.

6.2 SBS-S will show you all setting parameters before discharge, use & to check all setting again and press ENTER into start discharge.

6.3 In discharge interface, LCD will show:  
 a) Work status: 'Proceeding' or 'Stopped'  
 b) Voltage  
 c) Discharge current  
 d) Capacity discharged  
 e) Discharge time

6.4 Press ESC back to manual stop test, and press ENTER to manual start.

6.5 during discharge proceeding, press & back to parameter setting, change the setting value by & , and press ENTER to activate new setting and continue discharge.



## 7. Discharge Stop

7.1 Manual stop: press ESC during discharging.

7.2 Stop threshold reached:

| situation                                 | LCD message |
|---|-------------|
| a) Test time is over the setting value    |             |
| b) the voltage go below the setting value |             |

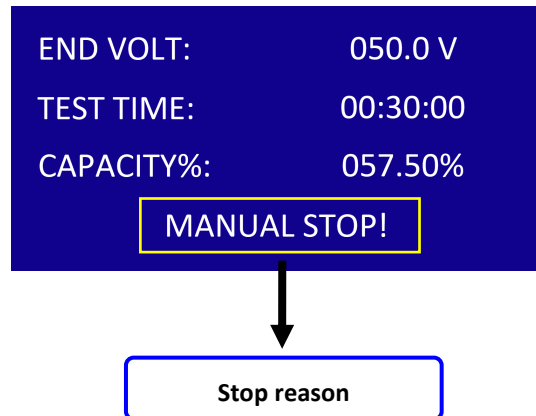
7.3 stop by errors:

| situation   | LCD message               |
|---|---------------------------|
| c) if the discharge current can't go up to the setting value,             | <b>CURRENT ERROR!</b>     |
| d) if the internal temperature of the tester is over the acceptable range | <b>TEMPERATURE ERROR!</b> |
| e) if power cable is wrong  | <b>CONNECTING ERROR!</b>  |

**8. Test result**

SBS-S can save the last test result in Test result interface. It can show:

- a) Test end voltage
- b) Test time
- c) Capacity percentage
- d) Stop reason

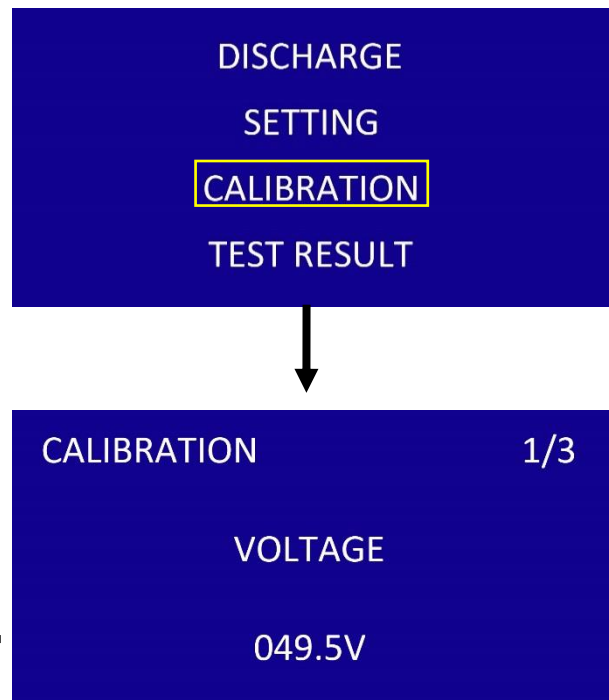
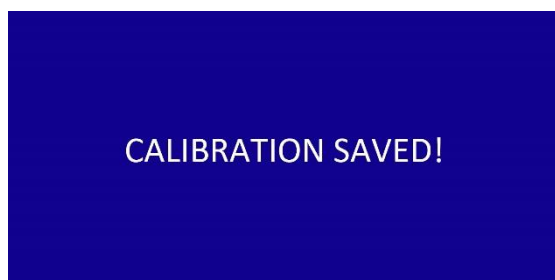


**9. Calibration interface**

SBS-S support calibration by user, with high resolution instrument, user can finish calibrate in calibration interface:

- 1) Voltage
- 2) Discharge current
- 3) External current from current clamp

press & to select the calibration item and change the setting value by & , and press to save calibration.



For discharge current calibration, it can proceed during discharge. Please press both



&amp;



at the same time, LCD will jump into calibration interface, and follow the above operation to finish calibration.

## ATTENTIONS

- a) For the testing safety and efficiency, please read the manual before operation.
- b) In the process of discharge, we advise that the operator can leave the testing spot.
- c) If overheat, over current, equipment failure happen in the testing, the warning alarm would activate automatically. Please turn off the AC power source to avoid a further damage.

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