

Quick Installation Guide

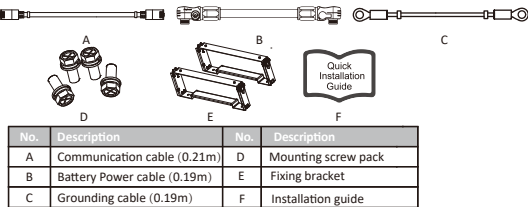
1.Tools Required

The following tools will be required to install the Mira-BMS and the battery.



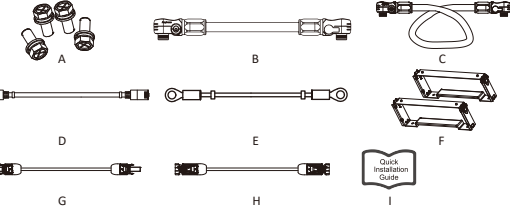
2. Packing List

For Mira-HV25 :



Note: item E is provide separately, not including in battery package.
Please contact your dealer if you do not have it.

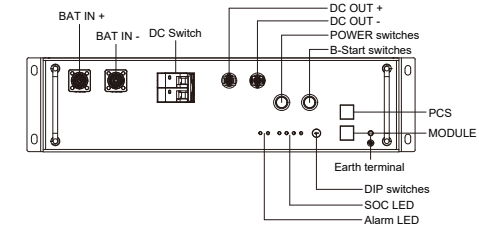
For Mira-BMS :



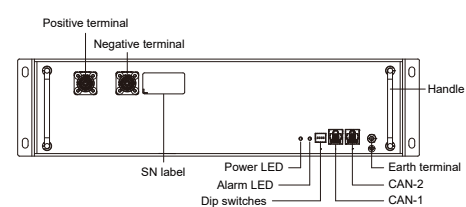
Note: item F is provide separately, not including in battery package.
Please contact your dealer if you do not have it.

3. Terminals

For Mira-BOX :



For Mira-HV25 :

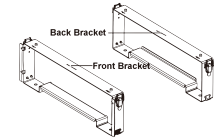


4. Installation Steps

Note: Batteries with different color SN label cannot be mixed in one system.

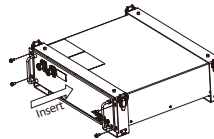
Step 1

Place the front bracket and back bracket as shown below.



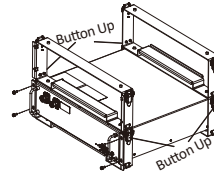
Step 2

Insert the battery module into the bracket from front horizontally, and tighten the four screws on the side.



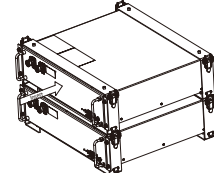
Step 3

Locate the brackets for the second battery on top of the first pair of the bracket and fasten the connecting button on the side.



Step 4

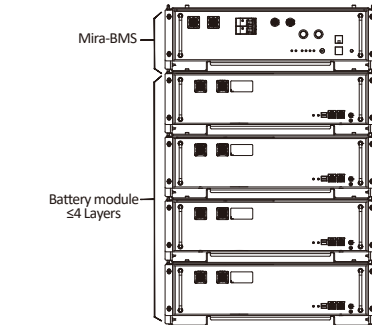
Insert the battery module into the bracket from front horizontally, and tighten the four screws on the side.



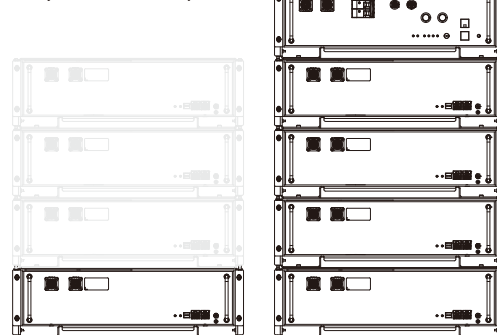
Note:

Max. 4 pieces battery per stack. Please make sure each system including 1 Mira-BMS.

Battery modules less than 4 pieces:



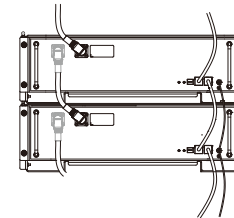
Battery modules more than 4 pieces:



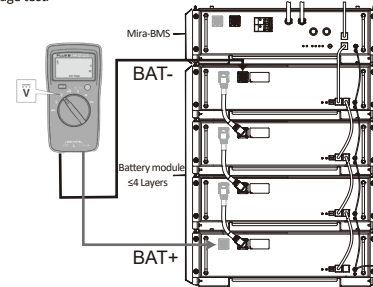
5. Wiring Steps

Battery power cable:

Step 1: Connect the power cable starting from the first battery module in series with other battery modules (Orange opposite, black negative). A 'click' sound indicates the connections are secured. The positive and negative connection of the battery cable is shown in below.



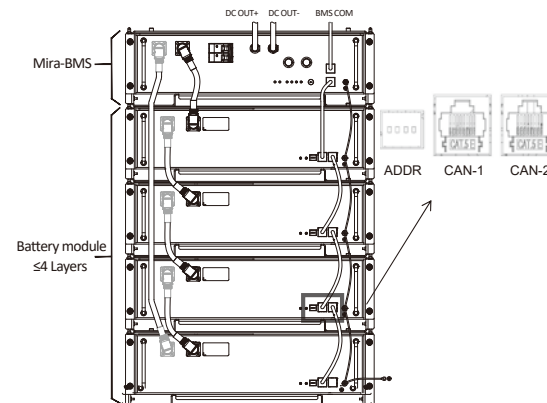
Step 2 : Measure voltage value: After all battery modules are connected in series, use a multimeter to measure the DC voltage on DC terminal. The total voltage should be $N \times 52 \pm 10V$ (N is the total number of battery module). Please refer to the picture below for voltage test.



Communication cable connection:

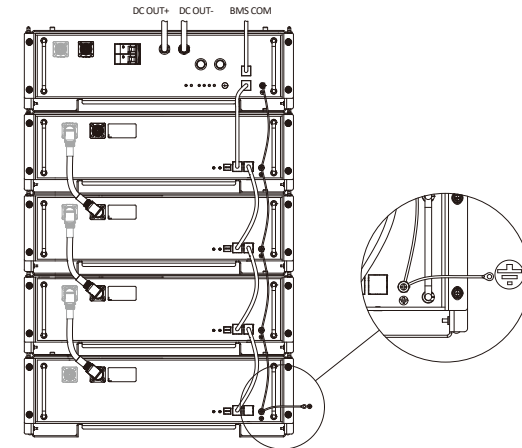
Step 1 : Take the main positive cable (two orange plugs), the main negative line (two black plugs) to connect the Mira-BMS.

Step 2 : Then connect the MODULE on the Mira-BMS to the CAN-1 of the first battery module, connect the CAN-2 of the previous battery module to CAN-1 of the next battery module, leave the last module's CAN-2 vacant. Wiring shall be connected in the sequence as shown in below.



Grounding cable:

Connect the grounding cable to ensure that all batteries are grounded. Wiring shall be connected in the sequence as shown in below.



6. System Start Up

Mira-BMS operation:

1. Normal mode: Turn on DC switch first, then press 'POWER' button.

2. Black start: (No grid connected) press the 'B-start' switch, turn on DC switch, and then press the 'POWER' switch.

Startup steps:

After powering on, all the green lights flash once, and then the running water lights flash once. The light on the Mira-HV25 comes on after a delay, not at the same time as the light on the BMS.



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