

## Dyness B4850 battery and MUST PV18-5048 VHM Setup



### Check List:

All of DYNESS battery has same DIP settings and cable connections, here are examples of B4850;

Power cables;

Parallel cables;

Communication cable between battery and inverter;

Communication cables between battery and battery;

B4850\*4PCS

PV18-5048 VHM

### Note:

Before starting, make sure battery and inverter size matched.

Follow Dyness user manual to check details, it is recommended to use battery in 1: 2 configuration at least.

### Applicable Product type:

Dyness Battery Low Voltage Product:

All 48V series: 4850, B3, A48100 etc.

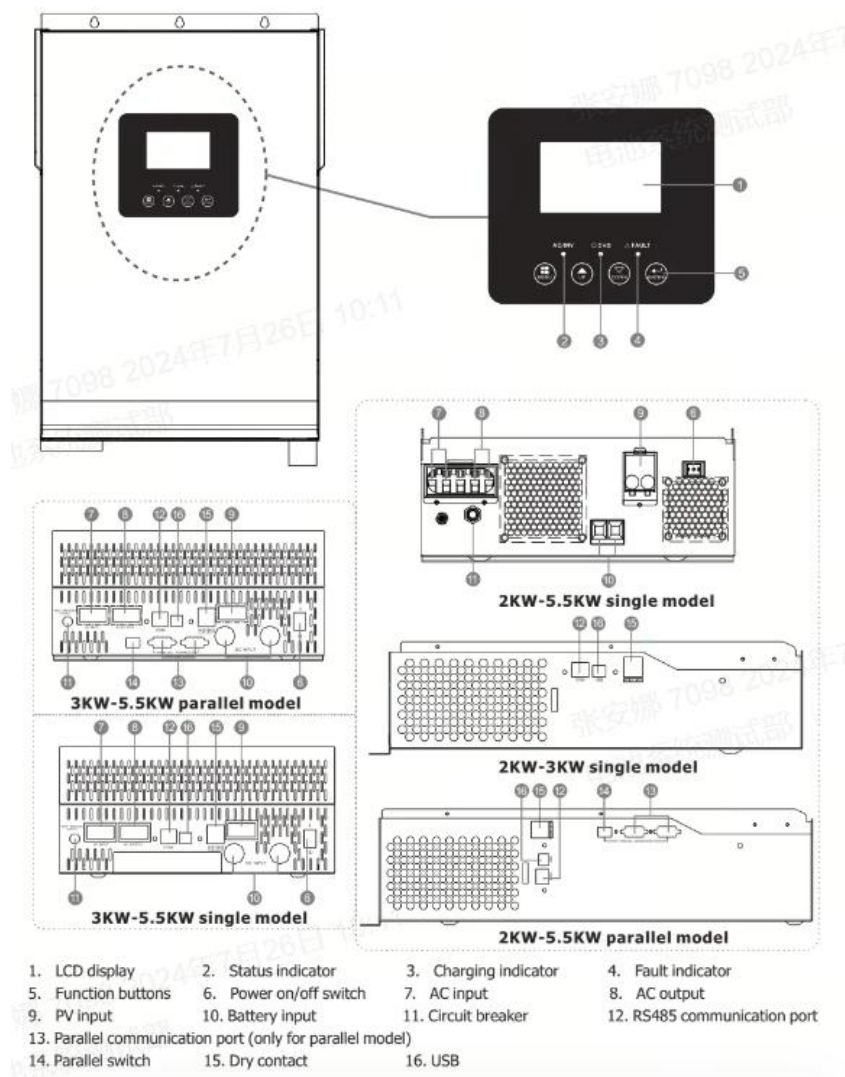
All 51V series: B51100, BX51100, DL3.6, DL5.0, DL5.0C, DL5.0X, PowerDepot H5B, PowerBox Pro etc.

Inverter Type:

PV18 2-5.5kW

## Step 1:Cable connect in inverter

Refer to user manual to connect energy grid, load, PV etc to PV18-5048 VHM.



## Step 2:Connect the battery cable to the inverter

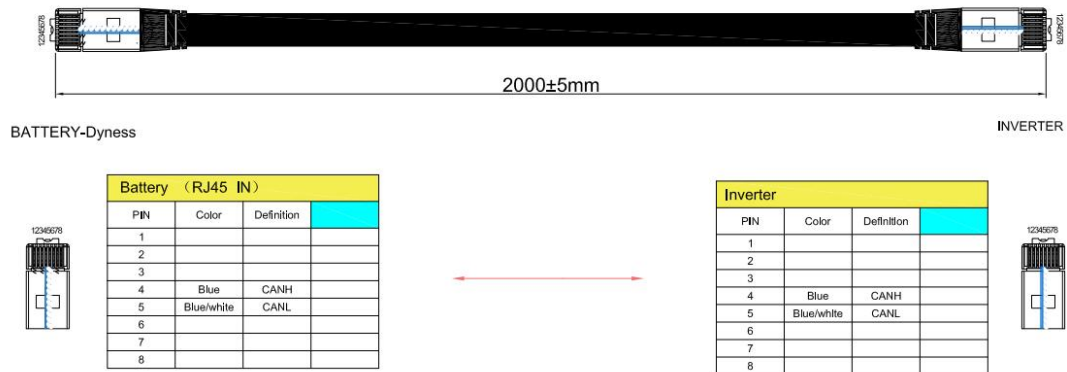
Before connecting the battery, please carefully read the user manual of the battery and perform the installation exactly as the battery manufacturer requests.

2a.Connect the battery DC power cable to the inverter.

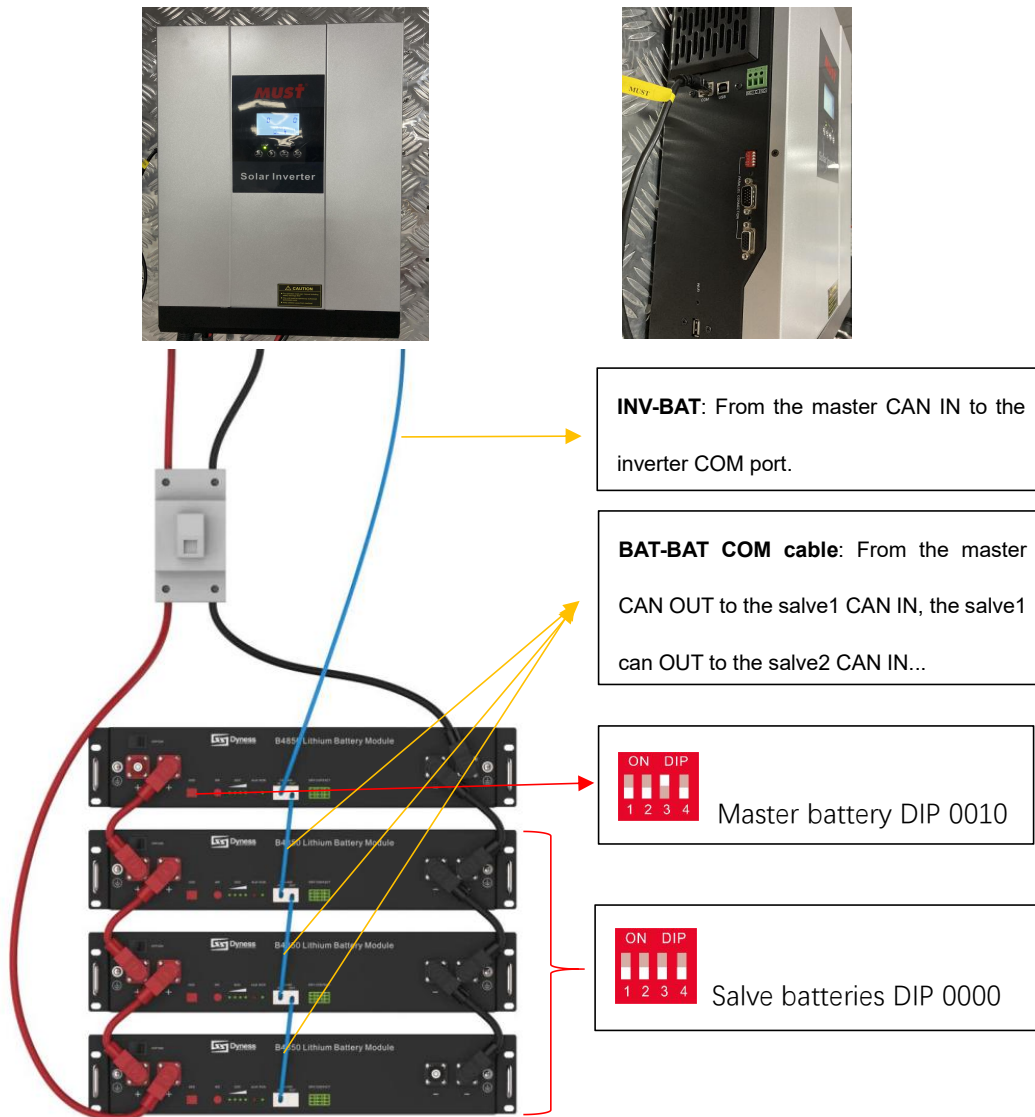
To avoid DC Arc, it's recommends installing DC switch between batteries and Hybrid Inverter.Ensure the correct polarity of batteries before connecting to the inverter.

2b.Connect the battery communication cable to the BMS of the inverter.

It's not normal standard pin-pin cable between battery and inverter ,but battery and battery cables is normal.



The system diagram is as follows:



### Step 3: Switch on battery and inverter

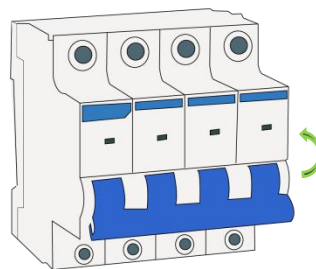
#### 3a. Turn on battery:

Turn on all the batteries ON/OFF switch, make sure all batteries in the "ON" state. Long press 3s master battery SW to put master battery into the power-on state, you will see master battery's SOC light is constantly on, and the RUN light is flashing. After 3s all slave batteries are awakened by the voltage of the master battery.

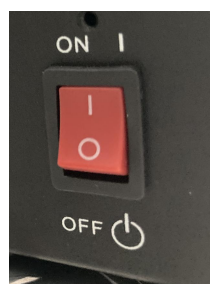


#### 3b. Turn on inverter:

Turn on breaker between battery and inverter.



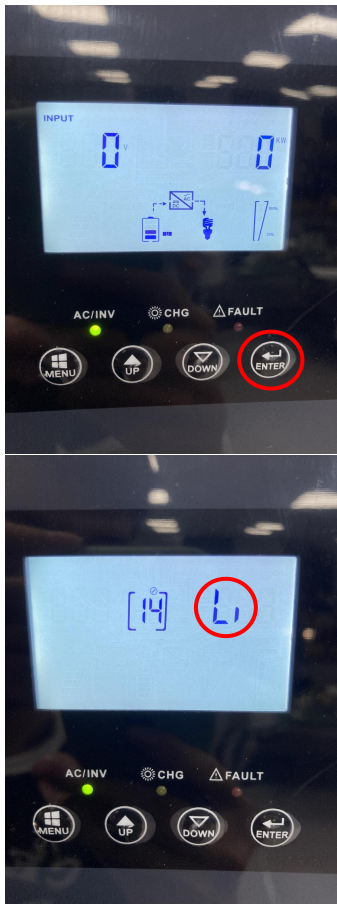
#### 3c. Press ON/OFF button of the inverter to open it.



### Step 4: Setup inverter

After the inverter is powered on, we can do some setup on the inverter to make the communication success.

Enter the setup mode by pressing and holding "enter", "Up" and "Down" represent selection, short press "enter" represents confirmation of options, and "ESC" represents exit.



Long press ENTER switch.

According to the communication protocol, set bellow:  
14: LI  
37: SOC  
41: 01(Dyness CAN)

**Step5:You can setup some other setting to make sure battery charge right.**

Communication is successful.



**Step6:Make the inverter start charging battery to 100% to calibrate SOC.**

## **Step7:Shut Down**

### **Modules Parallel**

- 1** Remove all the load
  - 2** Turn off DC breaker between the battery and inverter.
  - 3** Disconnect PV/Grid
  - 4** Turn off the inverter power switch,shut down the inverter.
  - 5** Long press the master module SW button to turn off all the batteries,then switch off all the batteries' ON/OFF switch.
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