

Dyness Powerbox Pro and Solis S5-EH1P6-L Setup

Check List:

All of DYNESS battery has same DIP settings and cable connections, here are examples of Powerbox Pro: Power cables; Parallel cables; Communication cable between battery and inverter S5-EH1P6-L Setup

Before starting, make sure battery and inverter size matched. Follow Dyness user manual to check details, it is recommended to use battery and inverter in 1: 2 configuration at least.

Step 1 : Cable connect in inverter

Keep both inverter and battery completely off.

Connect power cable and comm cable to inverter firstly.

1.1 AC terminal wiring of inverter: connect the power grid and load to ac-grid and ac-backup terminals of inverter respectively.



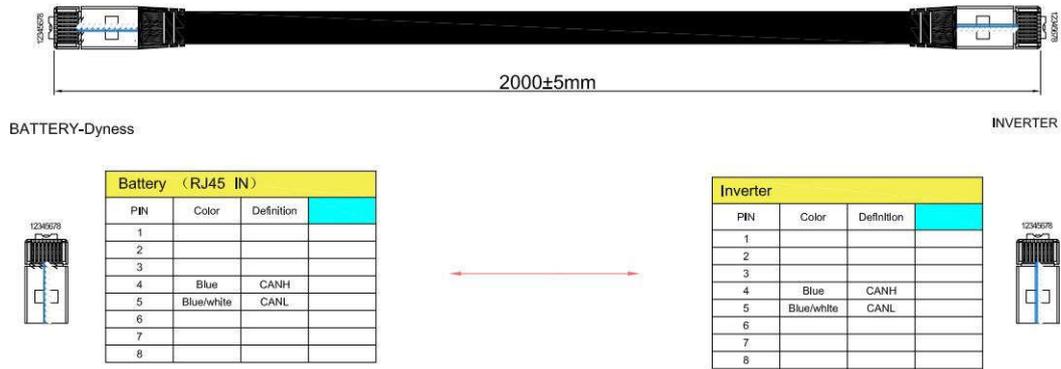
1.2 PV input wiring of inverter: insert the positive and negative poles of PV into the positive and negative poles of DC port of inverter respectively



1.3 Meter wiring: meter interfaces 1 and 4 are connected to power grid L and N respectively; 5. 6 connected to CT; Connect the power meter RS485 to the inverter RS-485 meter interface through the network cable in the accessories; The CT is clamped on the live wire of the power grid (pointing to the direction of the power grid)



It's normal standard pin-pin cable between battery and inverter ,also battery and battery.



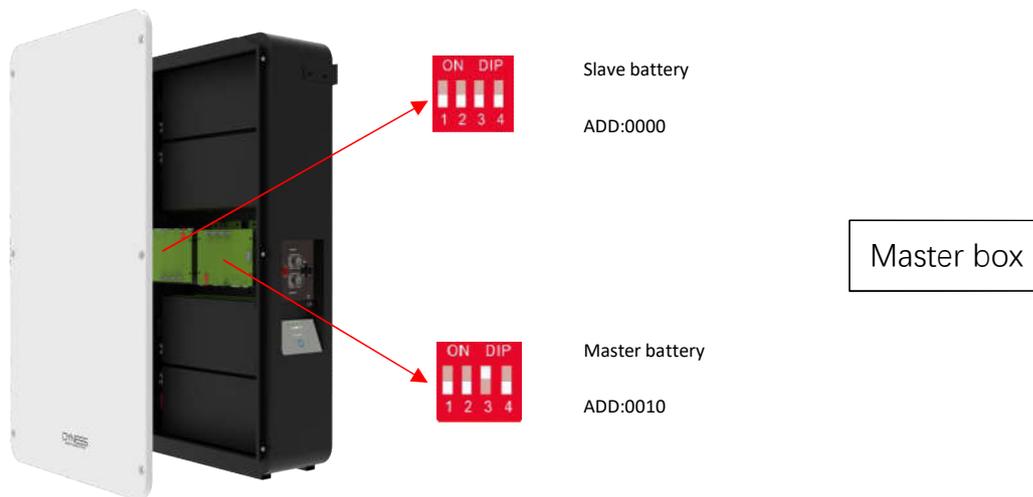
No matter how many inverters and how many batteries are in parallel, it is always the master battery communicates to the master inverter.

1. Dyness Powerbox Pro connect with Inverter



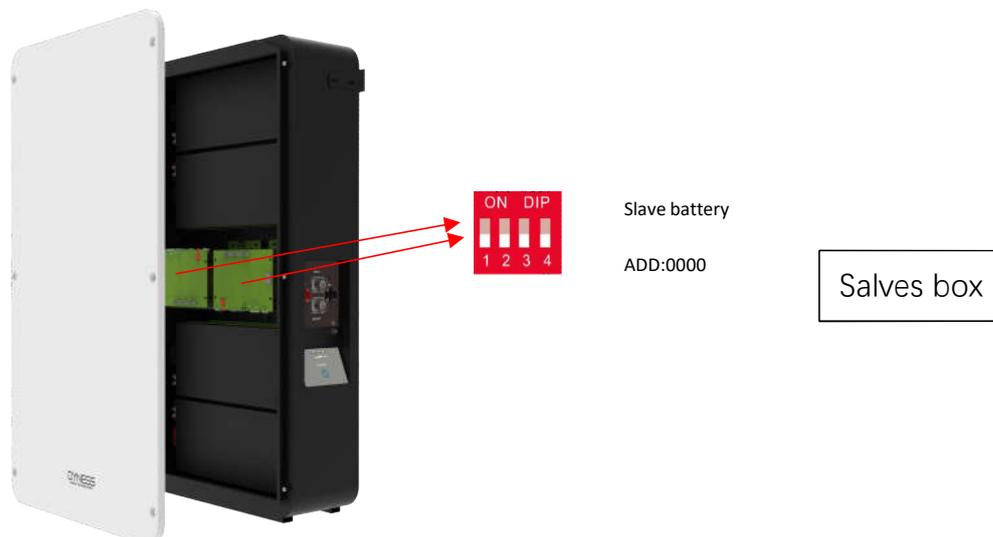
INV-BAT: From the master box CAN IN to the inverter CAN port;

BAT-BAT: From the master box CAN OUT to the slave1 box CAN IN, the slave1 box CAN OUT to the slave2 box CAN IN...



The master factory default is 0010,so no need open the cover to change anything,use it directly.

If only one Powerbox Pro ,it is the master itself.



The slaves need to open their cover to change inside 1# module to 0000.

Step 2:Switch on battery

Turn on all the batteries ON/OFF switch,long press 3s master SW to turn on all batteries.

When its loose like Powerbox Pro,long press 3s power switch on Powerbox Pro to power on battery.

Step 3 : Breaker/Fuse between inverter and battery

Connect DC breaker or Fuse between inverter and battery to protect both products.Turn on it after switching on batteries.Surely if it is Powerbox Pro,you can turn on itself DC breaker on the side of box.



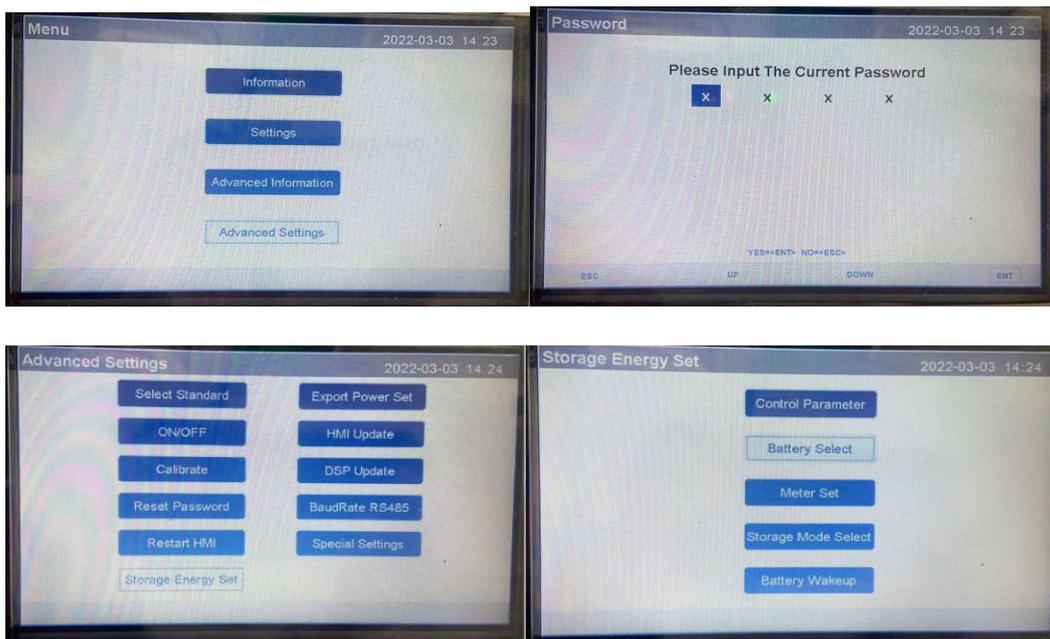
Step 4: Setup inverter

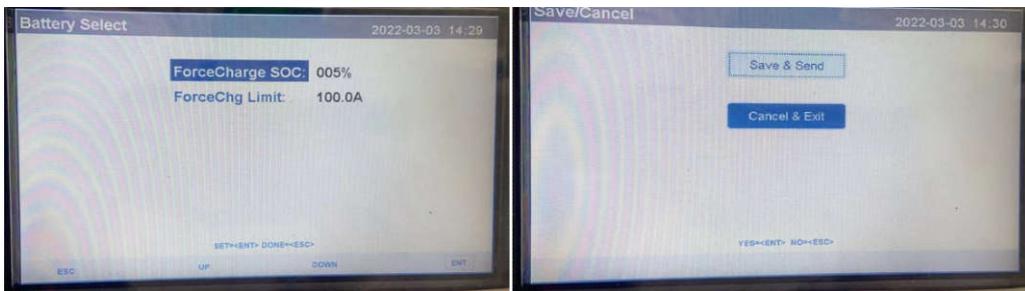
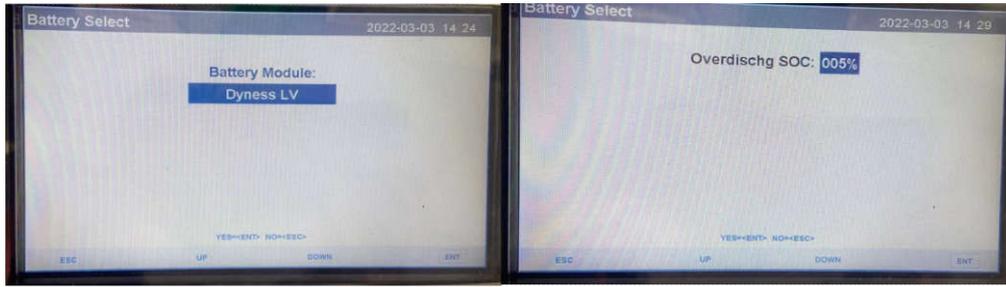
Now inverter is started, we can do some setup on the inverter to make the communication success.



Step 5: Battery type setting

1. ENTER → Advanced Settings → Advanced Settings → Password: 0010 → Storage Energy Set → Battery Select → Dyness LV → ENTER → ENTER → ESC → Save & Send





Step 6: Work mode setting

The inverter has four working modes: Self use, Feed in priority, Back up and off grid mode. Note: when setting each mode, other modes must be closed.



After setting the working mode, the inverter can work normally



Step7:Make the inverter start charging battery to 100% to calibrate SOC.

Step 8: Shut Down

1 Remove all the load

2 Disconnect PV/Grid

3 Turn off DC breaker of Powerbox Pro.

4 Long press 3s Reset button of the master Powerbox Pro to turn off it,slaves will be controlled to turn off automatically.