

Dyness A48100 battery and GROWATT SPF 12KW Setup

Check List:

All of DYNESS battery has same DIP settings and cable connections, here are examples of A48100 and Powerbox Pro;

Power cables;

Parallel cables;

Communication cable between battery and inverter;

Communication cables between battery and battery;

SPF 12KT HVM

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.

Step 1 : Cable connect in inverter

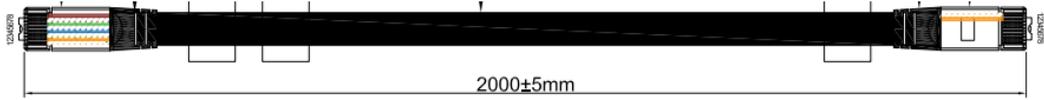
Keep both inverter and battery completely off.

Connect power cable and comm cable to inverter firstly.



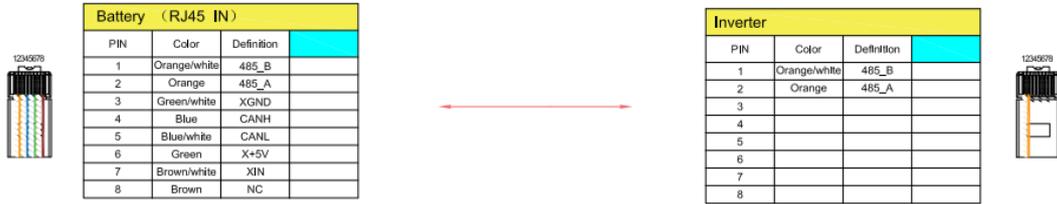
Connect the comm cable from inverter BMS port (As shown in the above figure) to the battery CAN IN port.

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



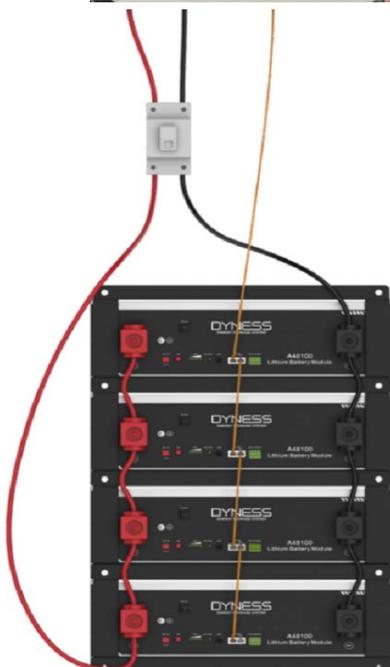
BATTERY-Dyness

INVERTER-Growatt



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 A48100 connect with Inverter



INV-BAT: From the master CAN IN to the inverter 485 port;

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

ON DIP
1 2 3 4
Master 0110

ON DIP
1 2 3 4
Slave 0000

2.Dyness Powerbox Pro connect with Inverter



INV-BAT: From the master box CAN IN to the inverter 485 port;

BAT-BAT: From the master box CAN OUT to the salve1 box CAN IN, the salve1 box CAN OUT to the salve2 box CAN IN...



Slave battery

ADD:0000



Master battery

ADD:0110

Master box

The master factory default is 0010,so need to open the cover to change inside 1# module to 0110.

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

Turn on the air switches of AC and DC and press ON POWER

button of the inverter.



Step 5: Inverter setting

Long press enter button to set, make sure 05 are properly set as below:



Step 6: Make the inverter start charging battery to 100% to calibrate SOC.



Step 7: Shut Down

Powerbox Pro

- 1 Remove all the load
- 2 Turn off DC breaker of Powerbox Pro.
- 3 Long press 3s Reset button of the master Powerbox Pro to turn off it, slaves will be controlled to turn off automatically.
- 4 Disconnect PV/Grid

5 Turn off the inverter power switch,shut down the inverter

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.