

## Dyness battery and Growatt off grid inverter Setup

### Check List:

Dyness B4850 \* 4

Power cable\*1 pair

Parallel cable\*3 pairs

Communication cable Bat-Inv\*1

Communication cable Bat-Bat\*3

Growatt SPF 5000TL HVM-ES

**Before start, make sure battery and inverter size match.**

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

In our case now, 5kW inverter connects to 9.6kWh battery.

### Step 1 : Cable connect in inverter

Keep both inverter and battery completely off.

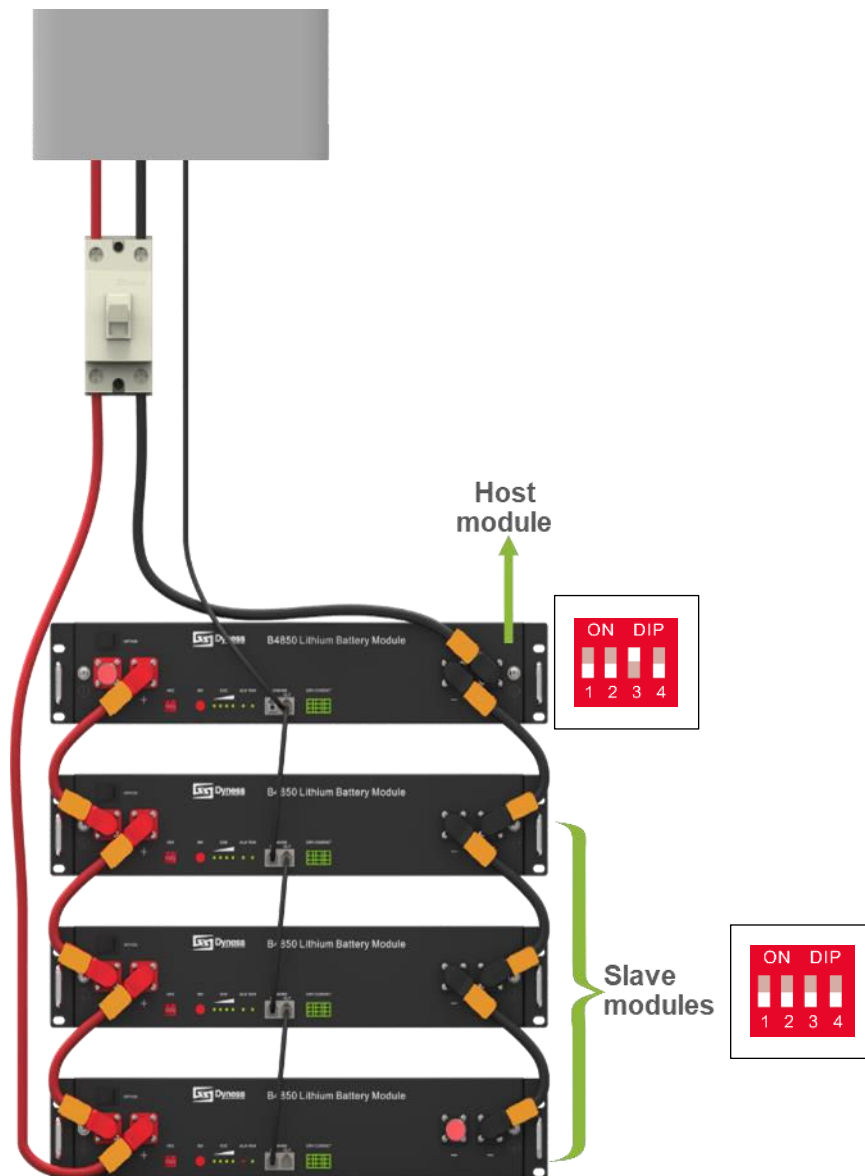
Connect power cable and comm cable to inverter first.

Note: Comm cable has label on, make sure the inverter side goes to battery side, inverter side to the inverter BMS side ,battery side left for later on in battery connection.



## Step 2 : Dial DIP switch on master

Make sure host battery DIP is 0010,slaves 0000



## Step 3 : Cable connect in battery

Keep batteries off, connect power cable 、 parallel cable、 communication cable Bat-Inv and comm cable Bat-Bat as above.

1. Comm cable from the host CAN IN port to the inverter CAN port
2. Comm cable from the host CAN OUT to slave1 CAN IN,slave1 CAN OUT to slave2 CAN IN....
3. Power cable should be connected diagonally ,one is connected at the top socket and another one is at the bottom.



#### **Step 4 : Breaker/Fuse between inverter and battery**

Connect DC breaker or Fuse between inverter and battery to protect both products.

**Step 5 : Switch on all the B4850 power switch,then press the host SW button about 3S to wake up it,all the slaves will be woken up automatically.**

**Step 6: Turn on the DC breaker**

**Step 7: Power on the inverter**



### Step 10: Battery and inverter are connected!

Now inverter is started, it should show the battery voltage ,battery and inverter are connected!



### Step 11: Inverter setup

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

**05** LI type(Lithium)



**21** Cut off SOC of the battery,20% default is OK.



**Step 12: You are ready to go**

**Step 13: Shut Down**

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