

Dyness battery and Growatt off grid inverter Setup

Check List:

Dyness Powerbox F-10.0

Power cable

Communication cable

Growatt SPF 5000TL HVM-P

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 10kWh battery.

Step 1 : Cable connect in inverter

Keep both inverter and battery completely off.

Connect power cable and comm cable to inverter first.

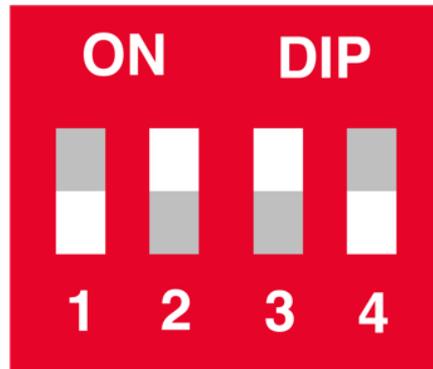
Note: Comm cable has label on, make sure the inverter side goes to battery side, inverter side to the inverter BMS side ,battery side left for later on in battery connection.



Step 2 : Dial DIP switch on master

Make sure master battery is dialed as below method.

OFF ON ON OFF



Step 3 : Cable connect in battery

Keep battery off, connect power cable and comm cable to battery.

When you are installing a Powerbox, there are two scenarios.

Single comm port – battery comm cable go in here.

Dual comm port – battery comm cable go top interface as shown.

When you are installing loose batteries like B4850/B3, battery comm cable goes to master battery "IN" comm port.

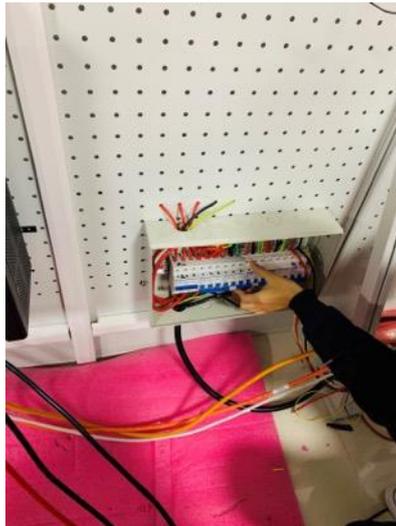


Step 4 : Breaker/Fuse between inverter and battery

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

Step 5 : Power on inverter AC/Grid

Power on inverter and turn on inverter's switch.



Step 6: Power on battery

Long press 3s power switch on Powerbox to power on battery, when its loose battery like B4850/B3, 3s also on master SW to power on all batteries.



Step 7: Power on DC breaker

Power on DC breaker of Powerbox.



Step 8: Power on DC breaker between battery and inverter.

Powerbox's breaker has been powered on, but power on the DC breaker between inverter and battery again!

If you are installing loose battery like B4850/B3, power on DC breaker between inverter and battery now.

Step 9: Battery and inverter are connected!

Now inverter is started and buzzing while connecting battery.

A few seconds later, it should show battery voltage and output voltage. Battery and inverter are connected!

Up and Down button to check the battery status like voltage soc etc..



Step 10: Inverter setup

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

05 LI type(Lithium)



Step 11: You are ready to go

Step 12: Shut Down

POWEBOX

- 1 Remove all the load
- 2 Turn off DC breaker of Powerbox.
- 3 Long press 3s Reset button of the Powerbox to power off battery
- 4 Disconnect PV/Grid
- 5 Turn off the inverter power switch, shut down the inverter

B4850/B3 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 SW button to power off the battery, from the master to the slaves one by one. Then switch off all the batteries' Power switch