

## Dyness battery and SOFAR inverter Setup

### Check List:

Dyness Powerbox F-10.0

Power cable

Communication cable

SOFAR HYD 6000-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, 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.

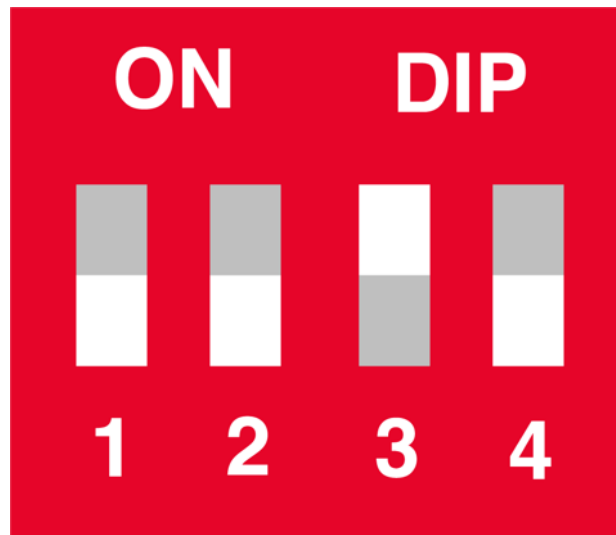
Note: Comm cable has label on, make sure the inverter side goes to battery side : inverter side to the inverter CAN side(4 pin) ,battery side left for later on in battery connection.



## Step 2 : Dial DIP switch on master

Make sure master battery is dialed as below method.

OFF OFF 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.

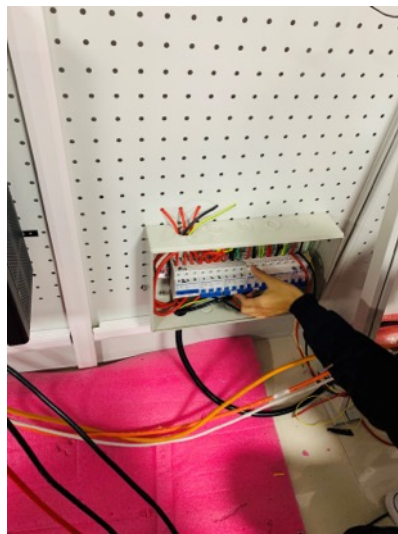


#### **Step 4 : Breaker/Fuse between inverter and battery**

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

#### **Step 5 : Power on inverter AC/Grid**

Power on inverter to activate inverter, then 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.

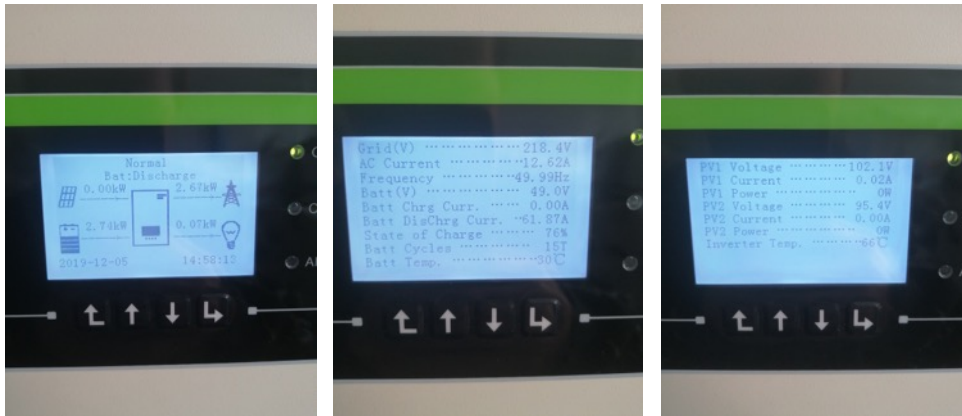
### **Step 9: Battery and inverter are connected!**

Now inverter shows battery PV grid load on screen. On grid LED is

glowing.

No alarm LED means everything is right. Battery and inverter are connected!

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

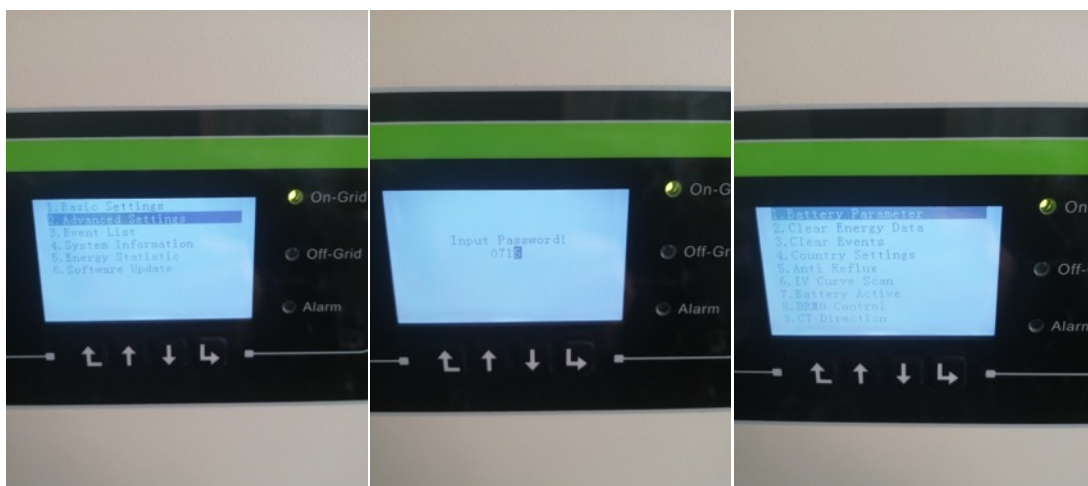


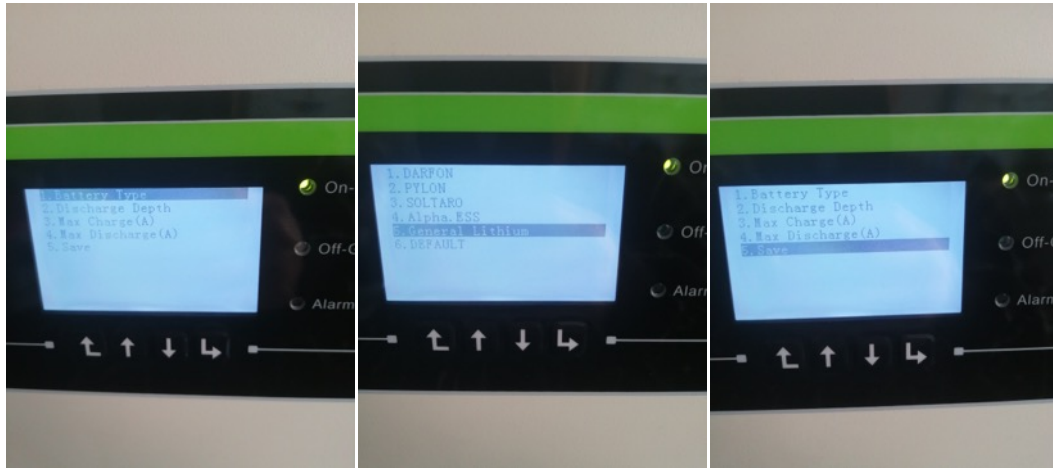
## Step 10: Inverter setup

Press ENTER, go in, make sure everything are properly set as below:

### 1. LI type(Lithium)

Steps: Advanced Settings → Input Password(0715) → Battery Parameter → Battery Type → General Lithium → Save

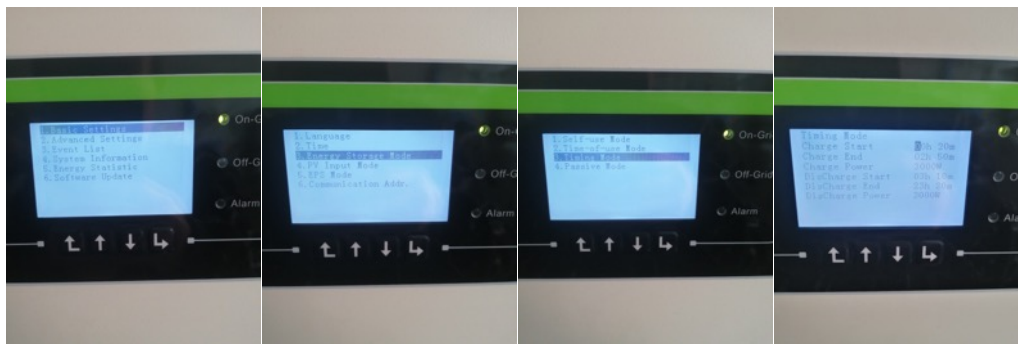




Then set Energy Storage Mode, you can set proper time to Charge and Discharge.

Steps: Basic Settings → Energy Storage Mode → Timing Mode

Attention: You' d better don' t change 'Charge Power 3000W'



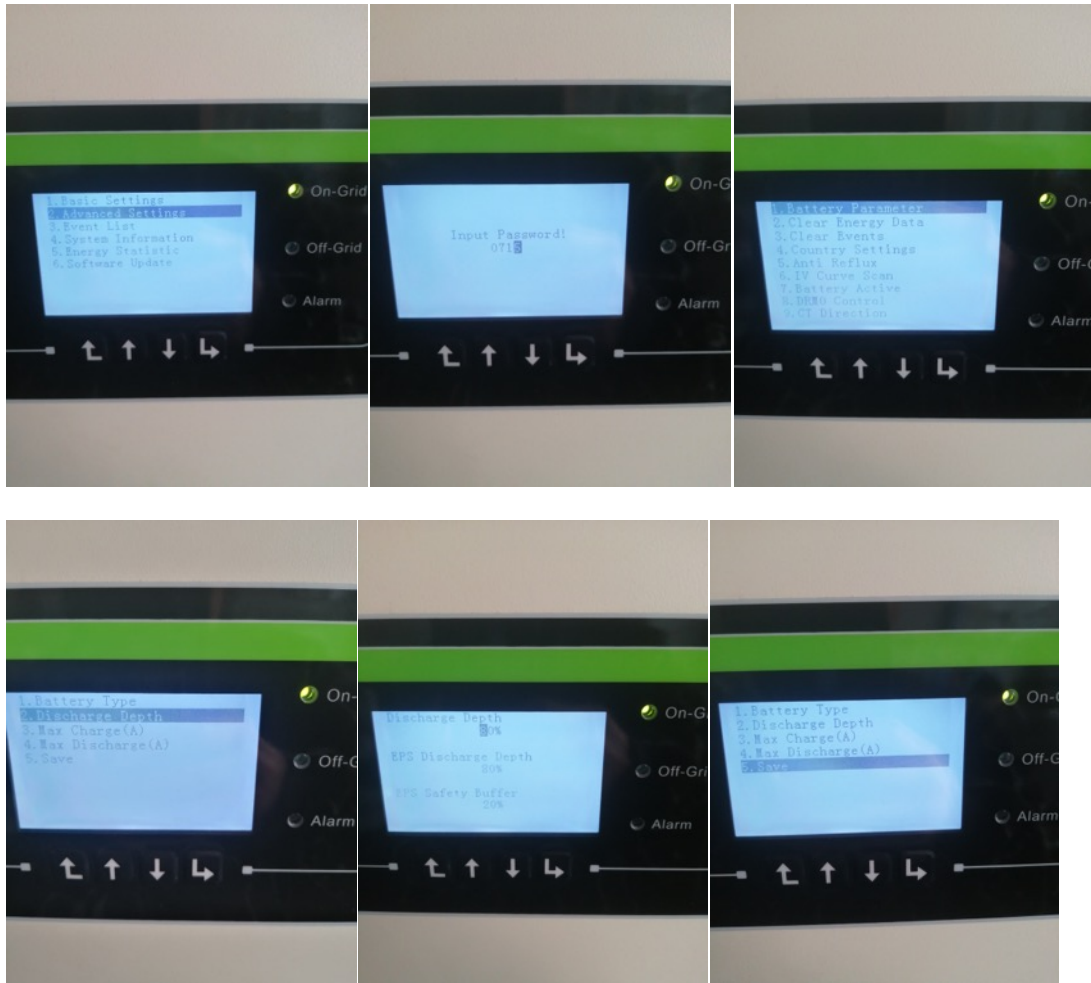
## 2. Discharge Depth

Steps: Advanced Settings → Input Password(0715) →

Discharge Depth → Discharge Depth(80%) → EPS Discharge

Depth(80%) → EPS Safety Buffer(20%) → Save





**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