

# Installation and configuration manual

## With Deye

**Pytes Lithium Battery**

**E-BOX series**

**With Deye Inverter**



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## BOM LIST

Before installation, you should prepare following items.

Item	Remarks	Quantity
<b>Power Cable (DC)</b>	<input type="checkbox"/> Conductor cross-section: 50 mm <sup>2</sup> to 95 mm <sup>2</sup> <input type="checkbox"/> Cable diameters: 14 mm to 25 mm <input type="checkbox"/> Only copper cables may be used. <input type="checkbox"/> The DC cables must be sized for the maximum battery voltage and the maximum battery current (see battery manufacturer documentation).	Depends on the number of batteries and the connection method
<b>CAN Cable</b>	CAN communication Terminal (RJ45 port) follow CAN protocol, to output batteries information	1
<b>Battery</b>	48100R / 48100C / 4850	Depends on the number of batteries and the connection method
<b>Inverter</b>	Deye	1

Definition of RJ45 Port Pin for BMS is as follow.

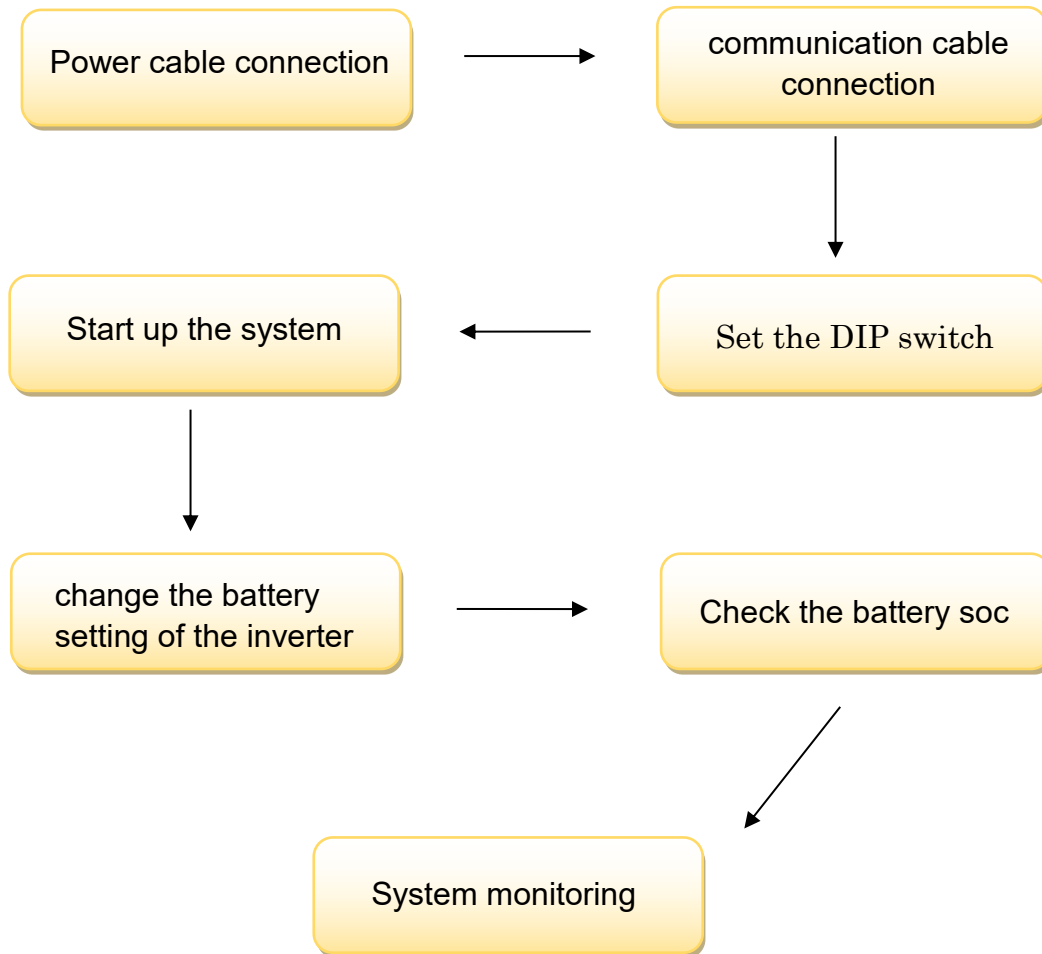


### RS485 port definition



### CAN port definition

## HOW TO INSATLL



**CAUTION:** If you want to get more inverter-related settings, please refer to the inverter user manual first.

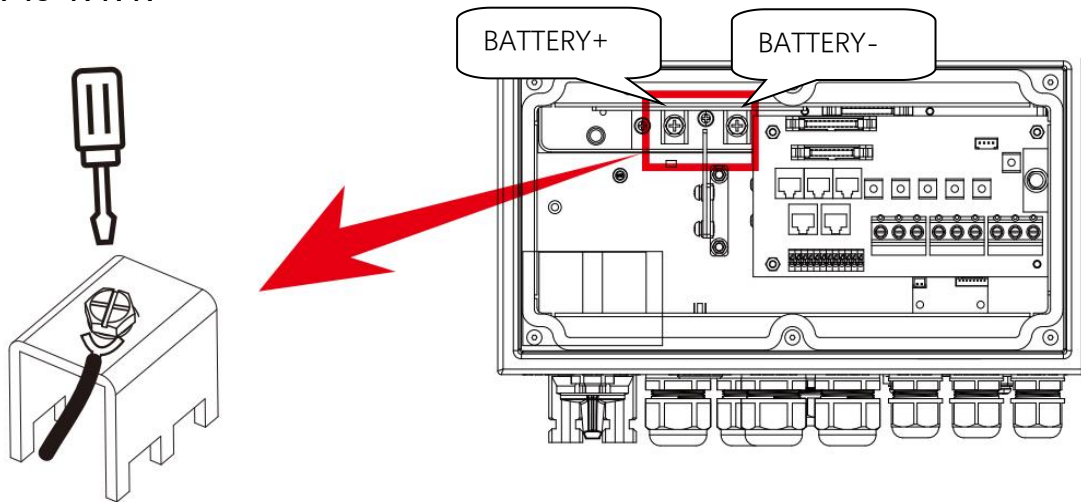
## 1. Power Cable Connection

### Step.1

Open the front housing of the deye Sun Series.

### Step.2

Connect the red and black cables to the inverter DC connector as shown in Pic 1.1.1.



Pic 1.1.1

### Step.3

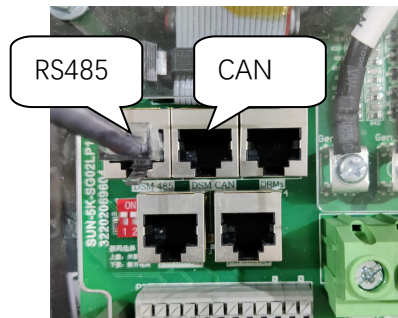
At the other end of the cable, connect to the battery as shown Pic 1.1.2. (Ensure that the battery power switch is off)



Pic 1.1.2

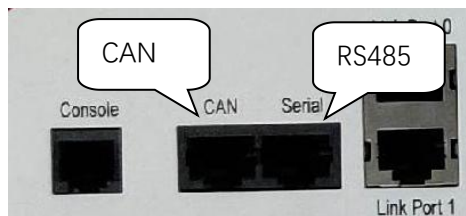
## 2. Communication Cable Connection

Connect the end of the cable to the inverter communication port as shown in pic 1.2.1. Make sure which communication port to use.



Pic 1.2.1

Connect the other end of the cable to the battery communication port as shown in pic 1.2.1. (Ensure the correct sequence of wires inside the communication cable)



Pic 1.2.2

## 3. Set The DIP Switch

Set the DIP switch as shown in graphic 1



Pic 1.2.3



graphic 1

## 4. Start up the system

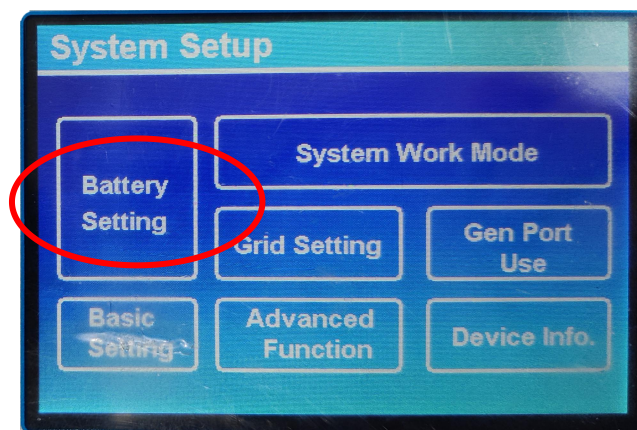
Start up the inverters and batteries.

## 5. Change the battery setting of the inverter

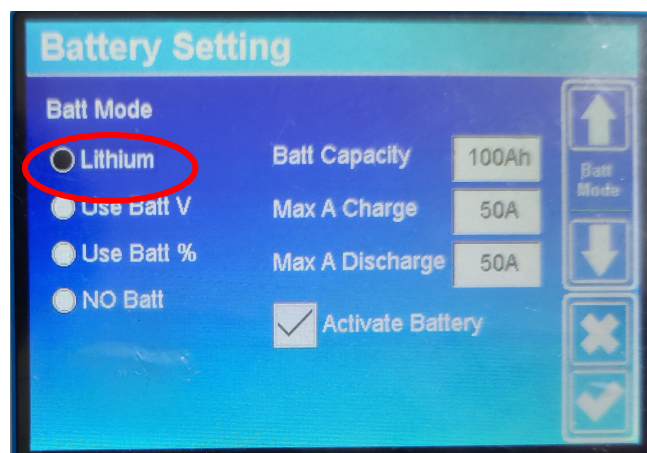
※ **CAUTION:** If you want more details about the batteries settings , please check the operating manual of inverters.

### Step1.

Change the battery type to lithium in the Battery setting.



Pic 2.2.1

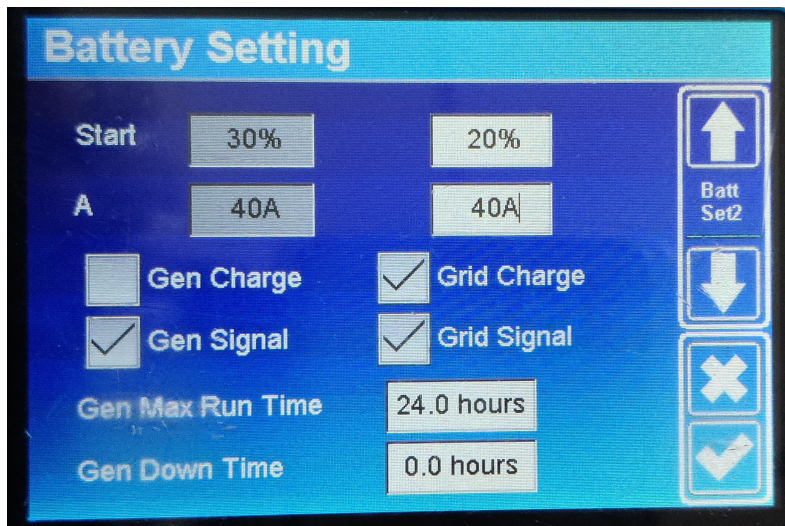


Pic 2.2.2



**Step2.**

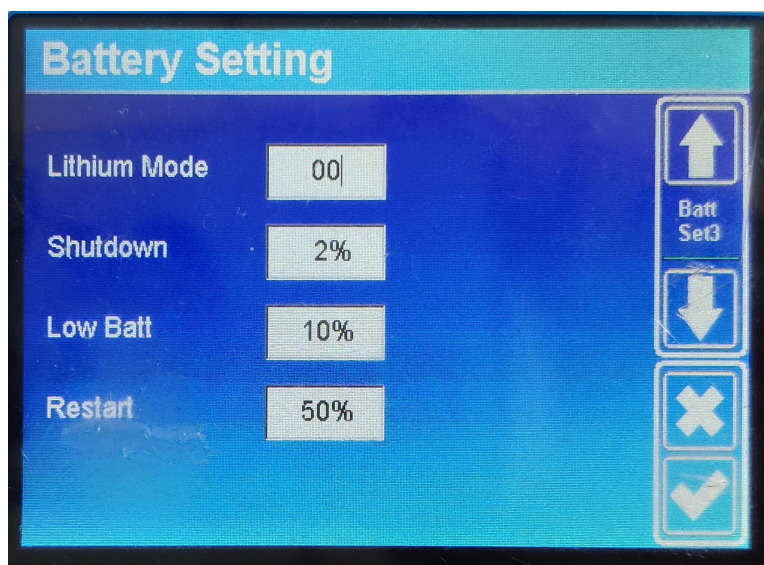
Turn to the next page,you can set charge starting SOC and current.



Pic 2.2.3

**Step3.**

Turn to the next page,set the lithium mode to 12 if you use RS485 communication. If you use CAN communication.set the lithium mode to 00.

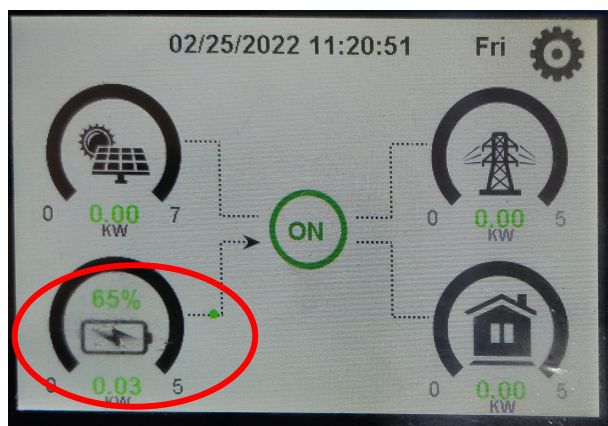


Pic 2.2.4

## 6. Check the battery soc

### Step.1

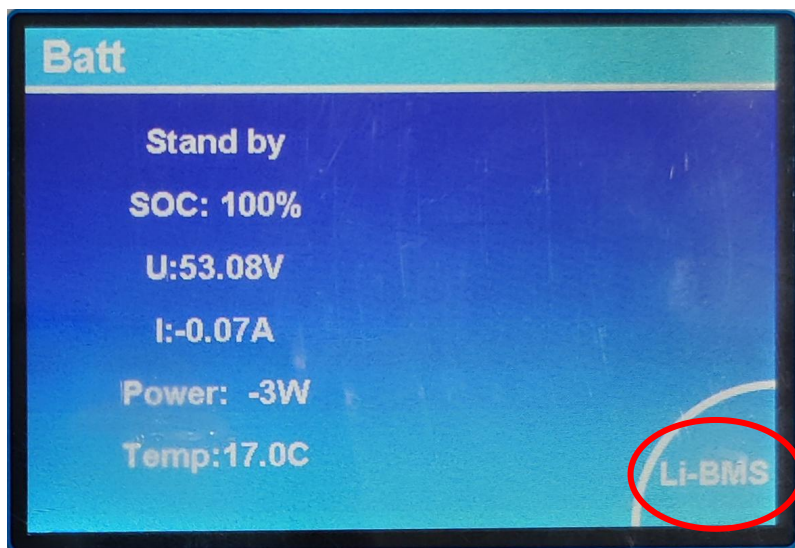
Touch the battery icon of the inverter's touch panel.



Pic 3.1.1

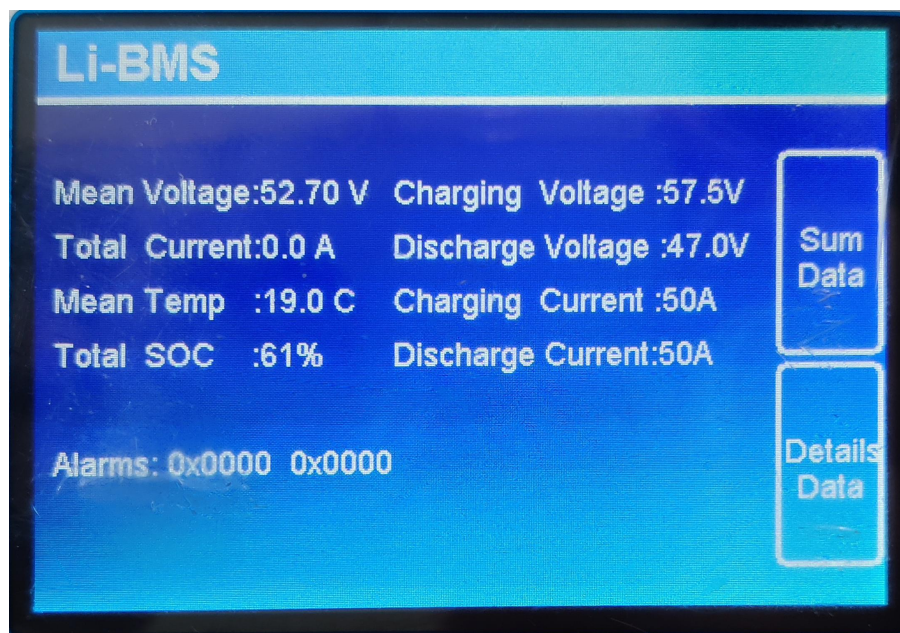
### Step.2

Click the Li-BMS in battery information page.



Pic 3.1.2

The details of the battery will be shown on the parameter if the connection between battery and inverter is correct.



Pic 3.1.3

## 7. System monitoring

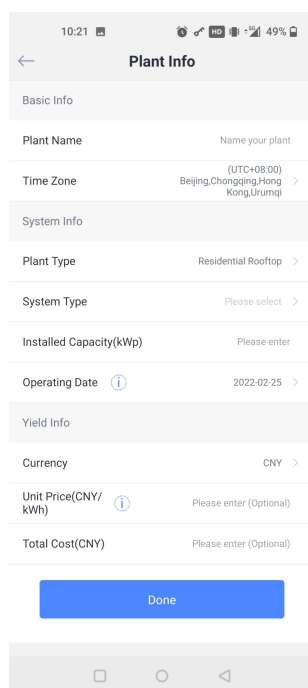
※ **CAUTION:** If you want more details about system monitoring , please check the operating manual of inverters.

Download the app from the app store.



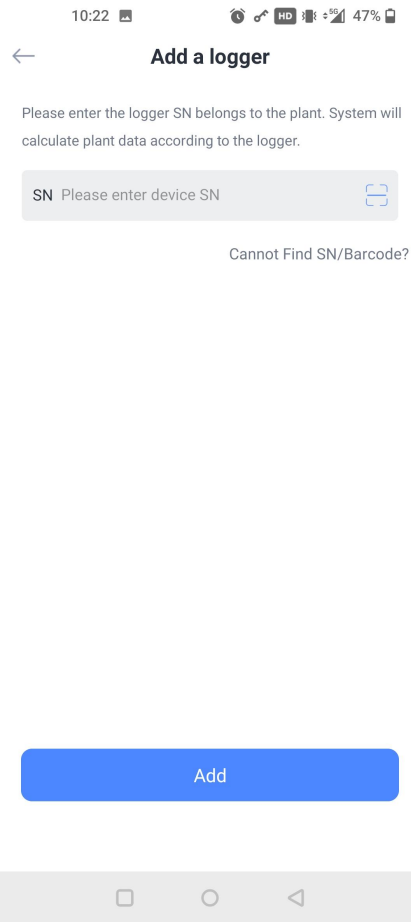
Pic 3.2.1

Register a new account and create a new plant.



Pic 3.2.2

Add the serial number and the password of the Datalogger.

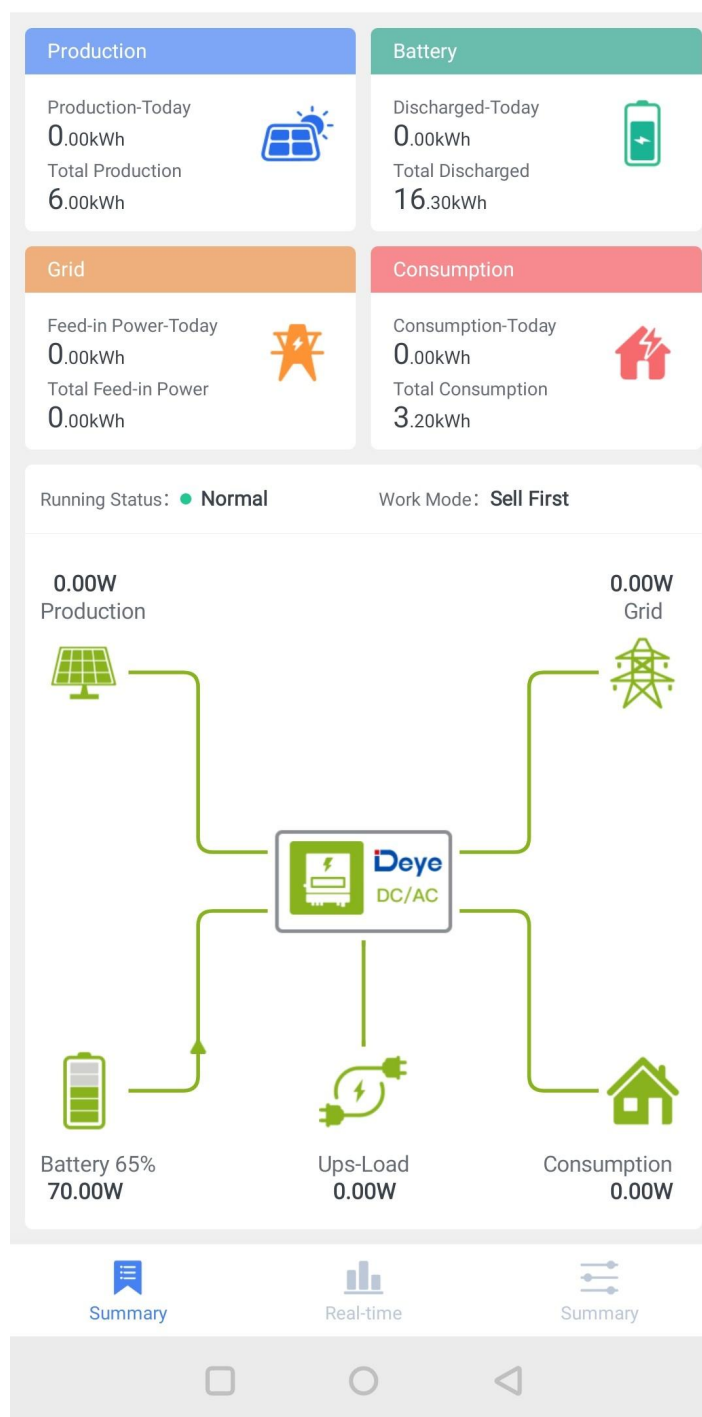


Pic 3.2.3



Pic 3.2.4

Now you can monitor the data of solar- PV grid system



Pic 3.2.5

-END-