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.

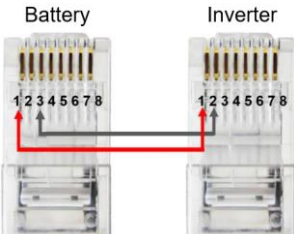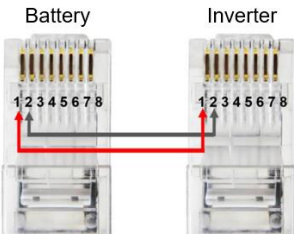| Item	Remarks	Quantity
Power Cable (DC)	☐ Conductor cross-section: 50 mm² to 95 mm² ☐ Cable diameters: 14 mm to 25 mm ☐ Only copper cables may be used. ☐ The DC cables must be sized for the maximum battery voltage and the maximum battery current (see battery manufacturer documentation).	Depends on the number of batteries and the connection method
Com. Cable	CAN communication or RS485 communication	1
Battery	48100R series /4850	Depends on the number of batteries and the connection method
Inverter	Deye	1

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Definition of RJ45 Port Pin for BMS is as follow.

Click here to tell the version of 48100R you have.

CAN port definition

Version of 48100R	Pin number of com. cable
A version	
B and C version	

RS485 port definition

Version of 48100R	Pin number of com. cable
A version	
B and C version	

HOW TO INSATLL

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┌─────────────────────┐          ┌─────────────────────┐
│ Power cable         │  ──────> │ communication cable │
│ connection          │          │ connection          │
└─────────────────────┘          └─────────────────────┘
                                            │
                                            ▼
┌─────────────────────┐          ┌─────────────────────┐
│ Start up the system │  <────── │ Set the DIP switch  │
└─────────────────────┘          └─────────────────────┘
         │
         ▼
┌─────────────────────┐          ┌─────────────────────┐
│ change the battery  │  ──────> │ Check the battery soc│
│ setting of the      │          └─────────────────────┘
│ inverter            │                     │
└─────────────────────┘                     │
                                            ▼
          ┌─────────────────────┐
          │ System monitoring   │
          └─────────────────────┘
```
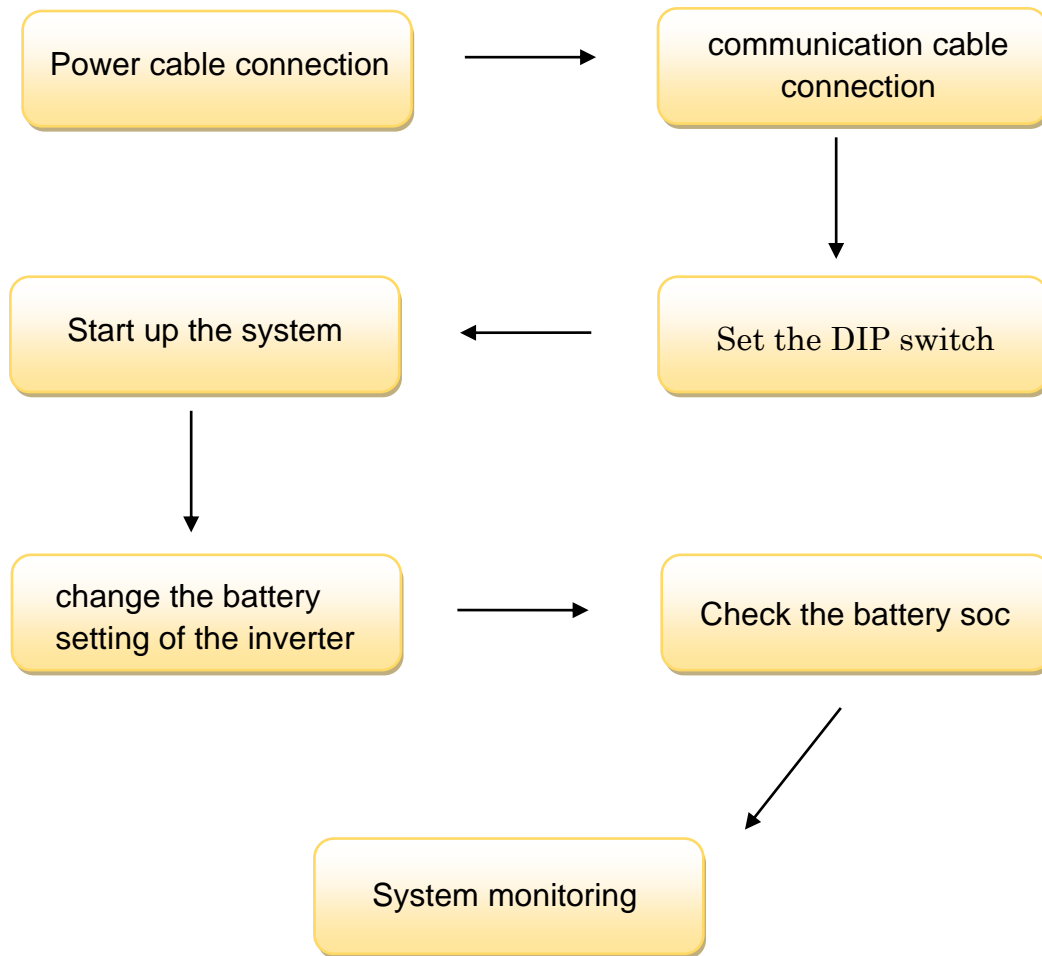
CAUTION: If you want to get more inverter-related settings, please refer to the inverter user manual first.
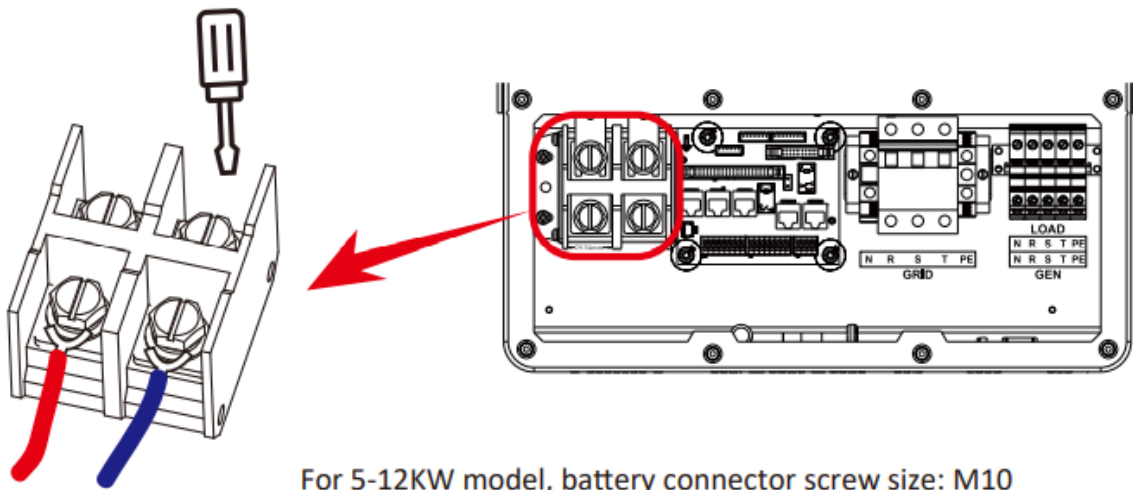
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1. Power Cable Connection

Step.1

Open the front housing of the deye Sun Series.

Step.2

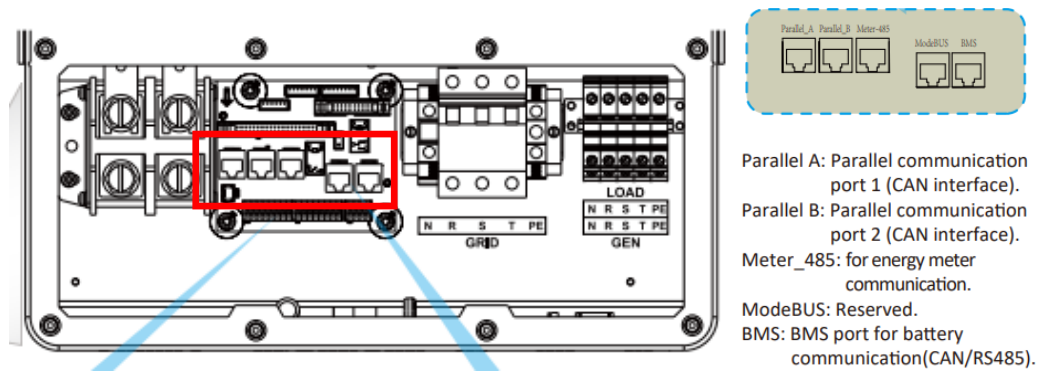Connect the red and black cables to the inverter DC connector as shown in Pic 1.1.1.

For 5-12KW model, battery connector screw size: M10

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

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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.

Parallel A: Parallel communication port 1 (CAN interface).
Parallel B: Parallel communication port 2 (CAN interface).
Meter_485: for energy meter communication.
ModeBUS: Reserved.
BMS: BMS port for battery communication(CAN/RS485).

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 communication cable)
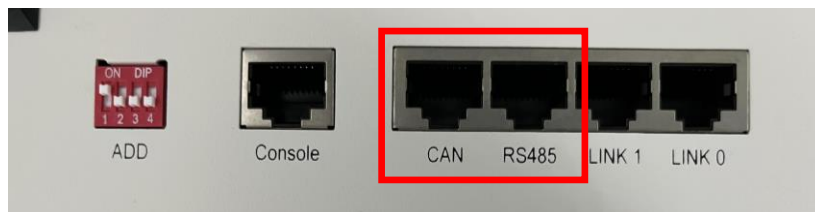
Pic 1.2.2

3. Set The DIP Switch

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Set the DIP switch as shown in Pic 1.2.3.

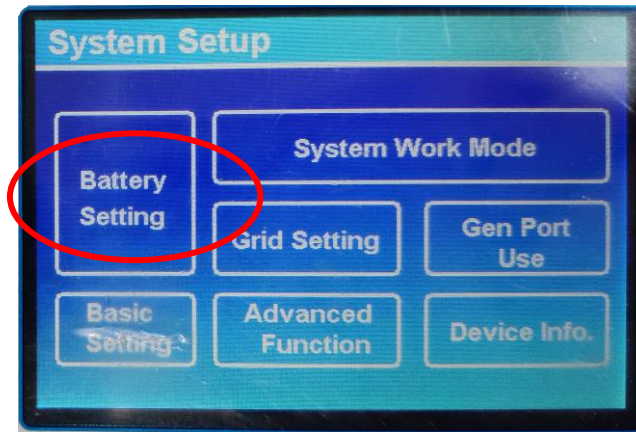| Version of 48100R	ADD setting
A and B version	
C version	

Pic 1.2.3

4. Start up the system

Start up the inverters and batteries.

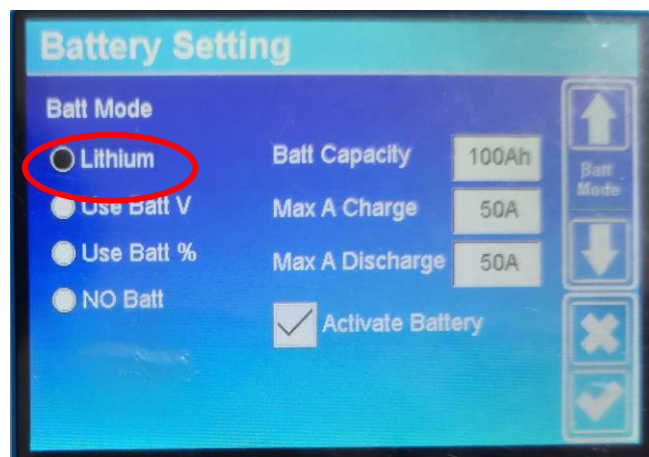## 5.Change the battery setting of the inverter

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

Step1.
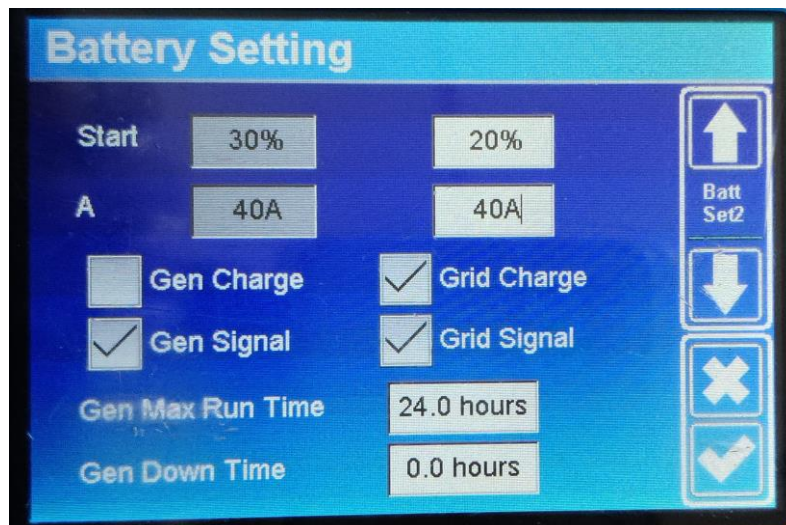
Change the battery type to lithium in the Battery setting.

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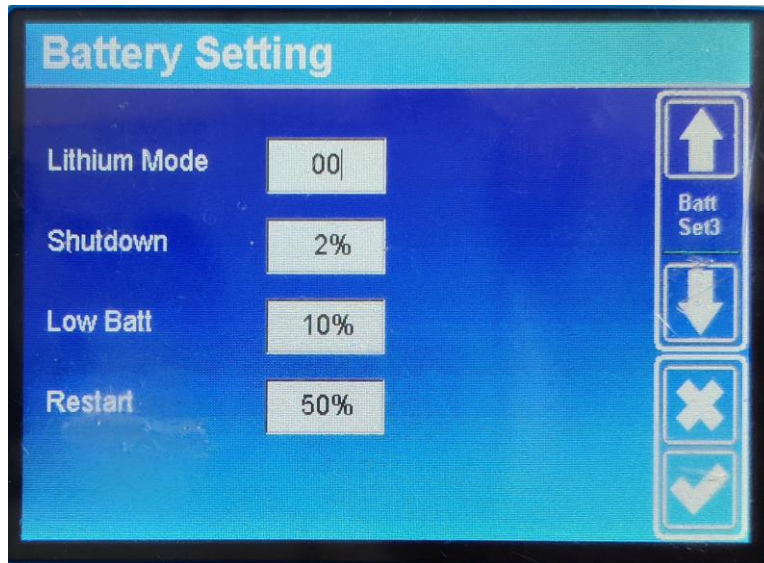Pic 2.2.1

Pic 2.2.2

Step2.

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

Pic 2.2.3

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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.
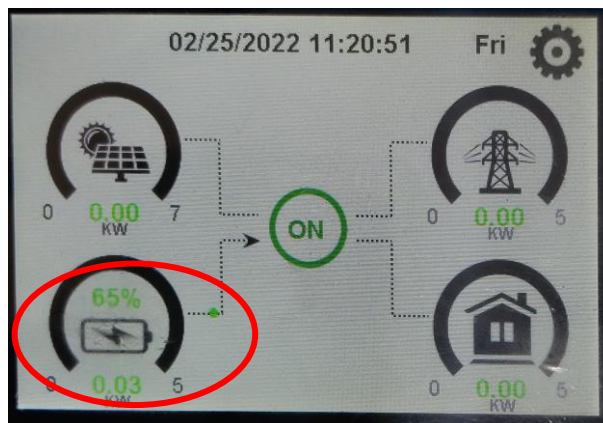

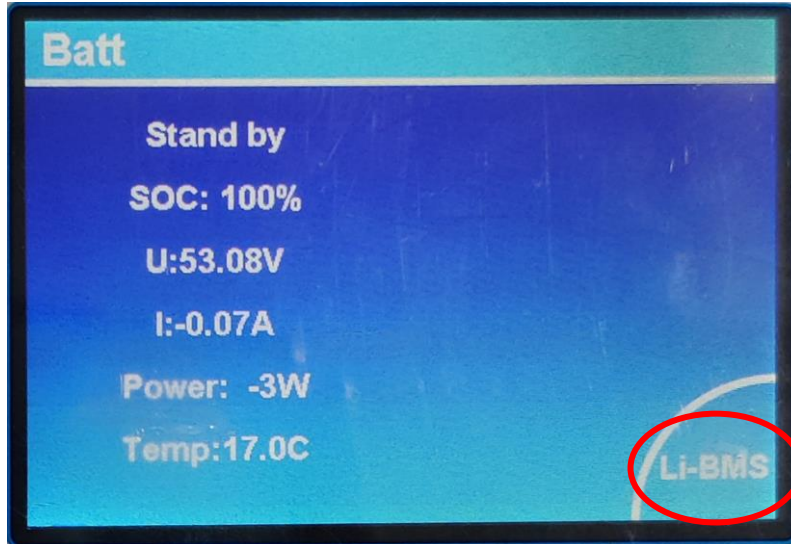
Pic 2.2.4

6.Check the battery soc

Step.1

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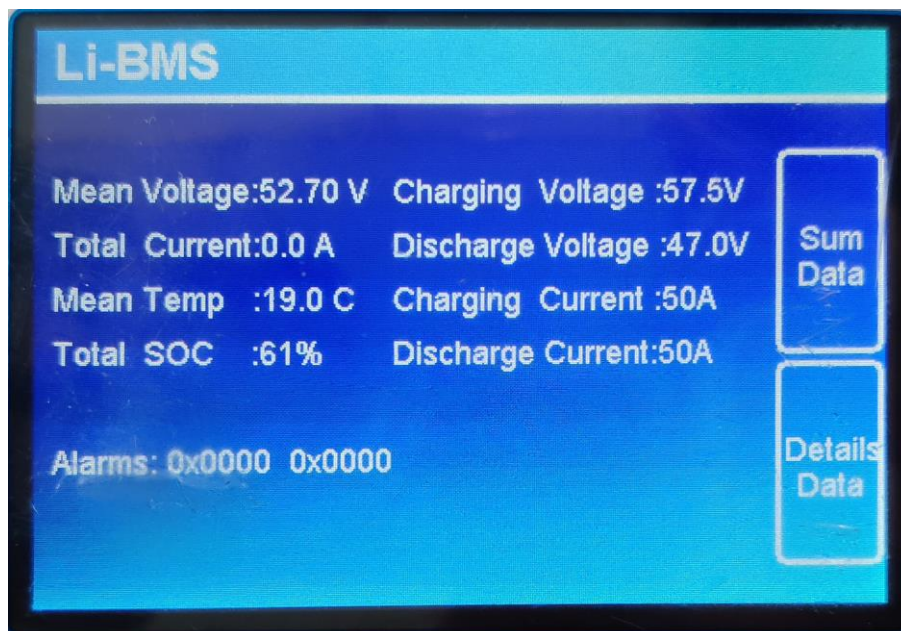

Pic 3.1.1

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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.
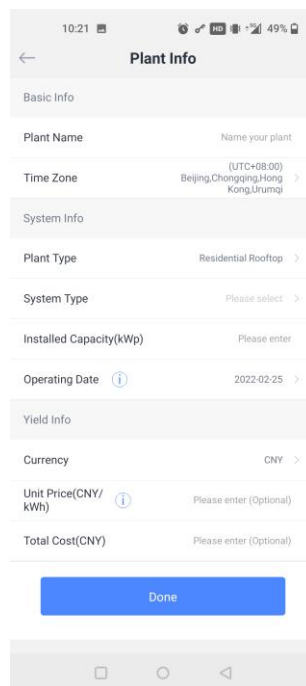

Pic 3.1.3

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

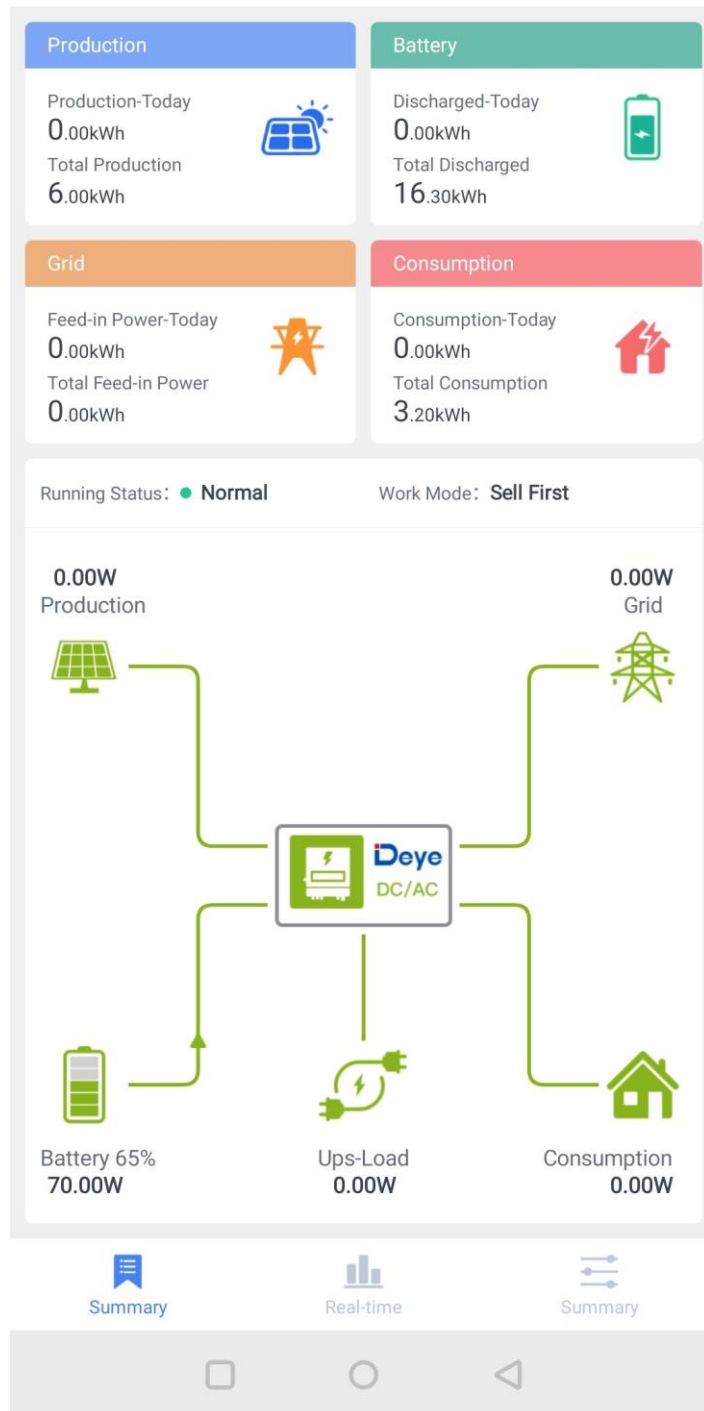Add the serial number and the password of the Datalogger.

Pic 3.2.3

Pic 3.2.4

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

Pic 3.2.5

-END-