Installation and Configuration Manual

Pytes Lithium Battery V series

With Sinexcel/Isuna Inverter

CONTENTS

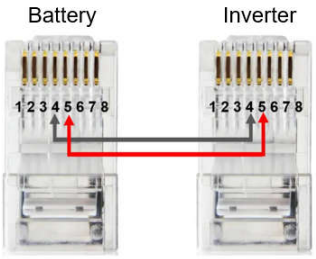
BOM LIST

Before installation, you should prepare following items.

Item	Remarks	Quantity
Power Cable (DC)	☐ Conductor cross-section: UL10269-1/0AWG-200mm-Amphonel 8,0mm or TMR-190*25*18mm ☐ 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	V5°/V5°a	Depends on the number of batteries and the connection method
Inverter	Sinexcel / Isuna	1

Definition of RJ45 Port Pin Sequence is as follow.

CAN port definition

Battery	Pin sequence of communication cable
V Series	

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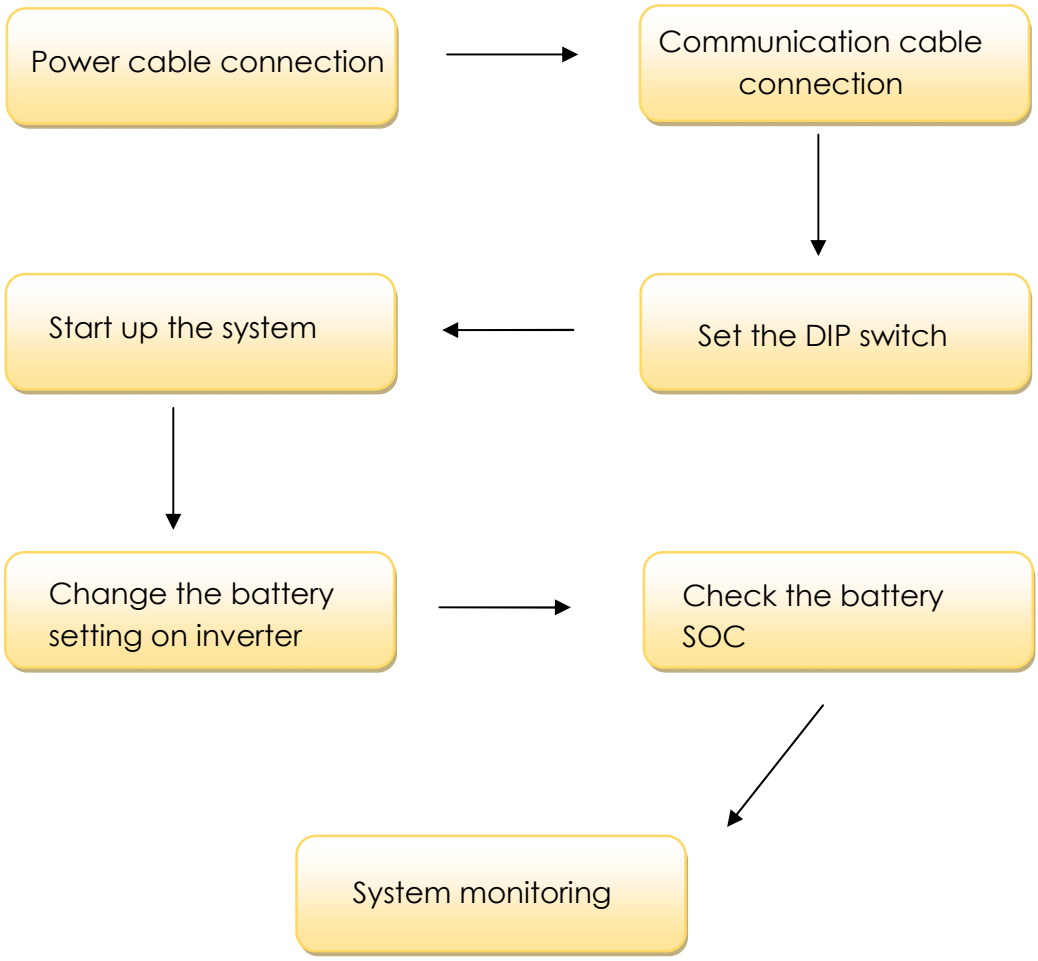
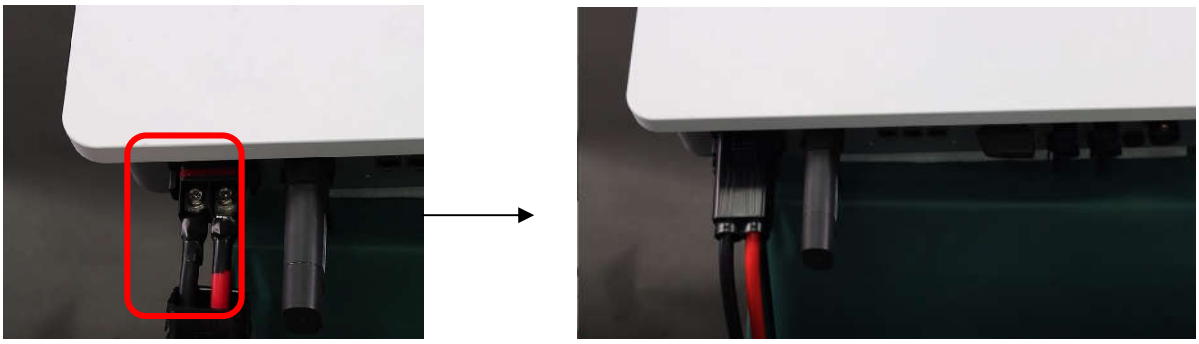


CAUTION: If you want to get more inverter-related settings, please refer to the inverter user manual.

1. Power Cable Connection

Step.1

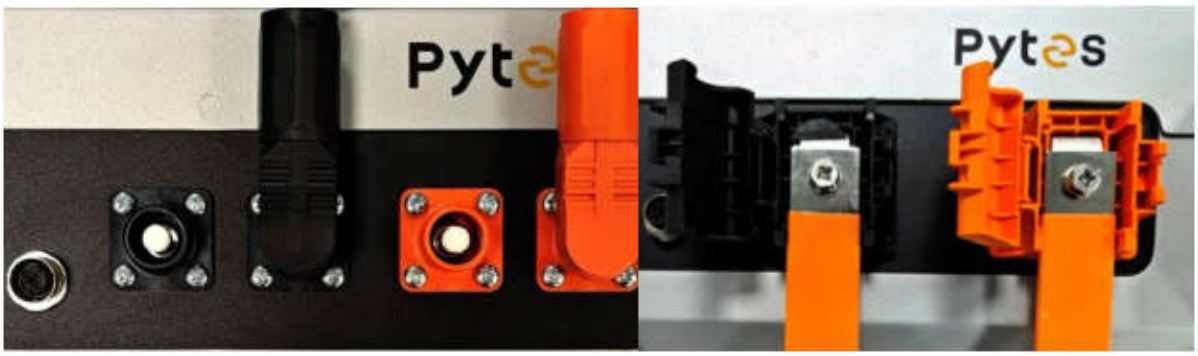
Connect the red and black power cables to the inverter DC connector as shown in Pic 1.1.1.



Pic 1.1.1

Step.2

Parallel connect the other end of the power cables to battery power terminals, positive to positive and negative to negative, as shown Pic 1.2.1. (Ensure the battery power switch is off)



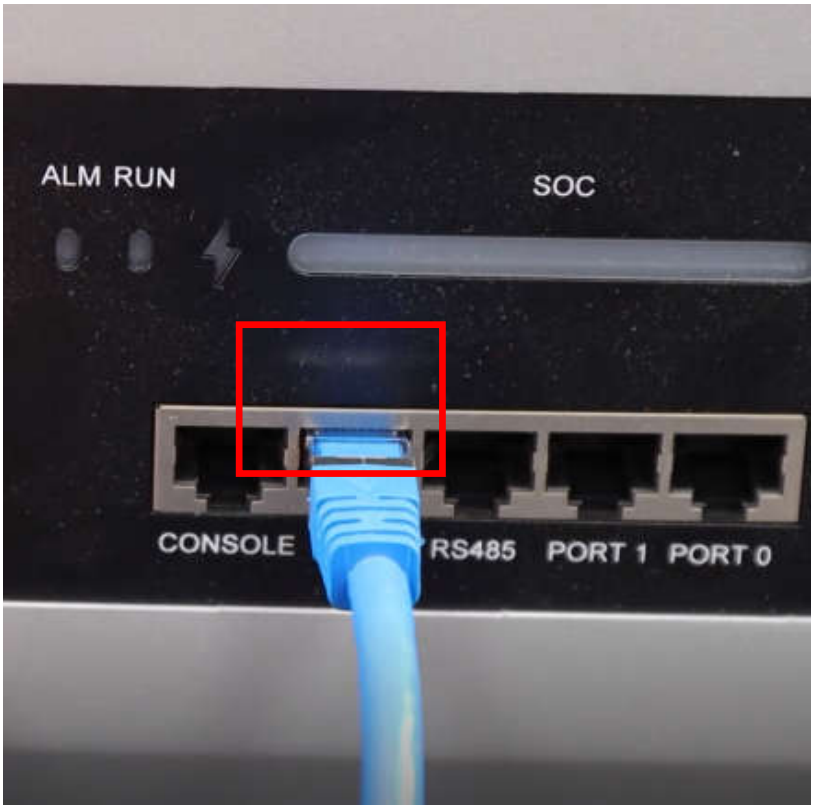
Pic 1.2.1

2. Communication Cable Connection

Connect one end of the communication cable to the inverter CAN/RS485-BMS port as shown in Pic 2.1.1.

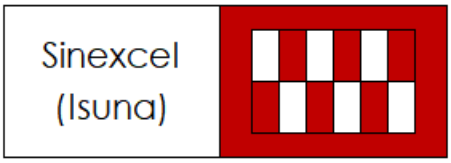
Pic 2.1.1

Connect the other end of the communication cable to the battery CAN port as shown in pic 2.1.2. (Refer to page 4 for communication cable pin sequence.)



Pic 2.1.2

3. Set DIP Switch

Battery	DIP setting
V Series	

Set DIP switch as shown in Pic 3.1.1.

Pic 3.1.1

4. Start up the system

Start up the inverter and batteries.

5.Change the battery setting of the inverter

※ CAUTION: If you want more details about batteries settings of inverter, please check user manual of inverter.

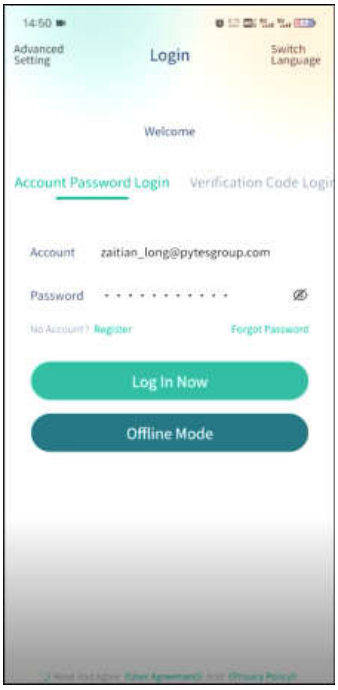
Step1.

Download the ESS LINK from Apple Store or Google Play.

Step2.

Click the APP icon to run the APP. Register and log in.

Interface as show in Pic 5.2.1



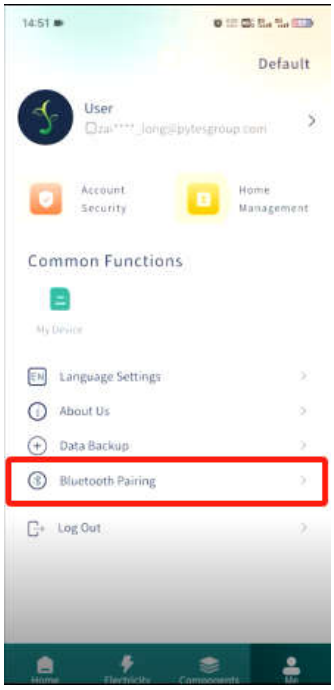
Pic 5.2.1

Click on the bottom right icon “ME”.

Pic 5.2.2

Click on “Bluetooth Pairing” on the next Page.

(Ensure WiFi and bluetooth are on before next step.)

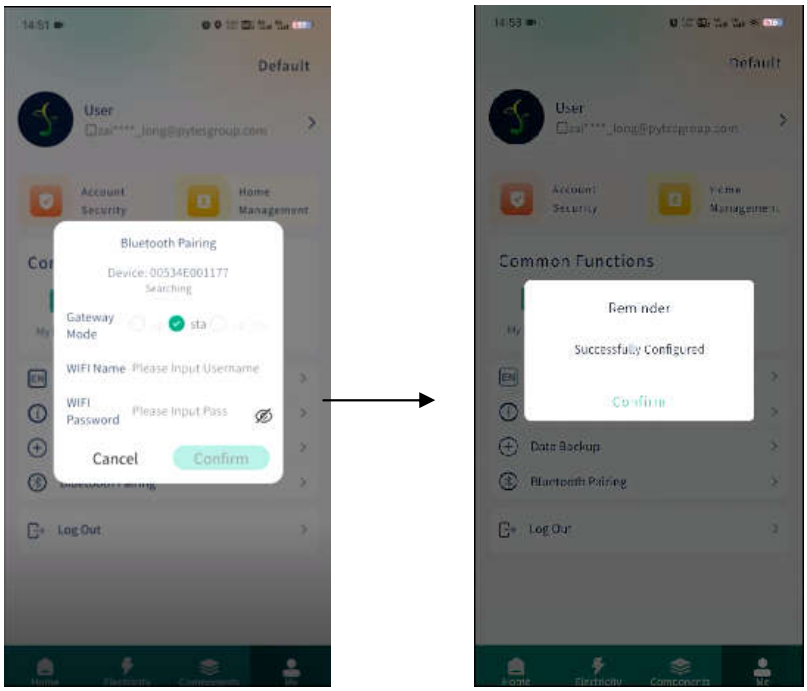


Pic 5.2.3

Enter the Device number which you can find on WiFi Dongle.

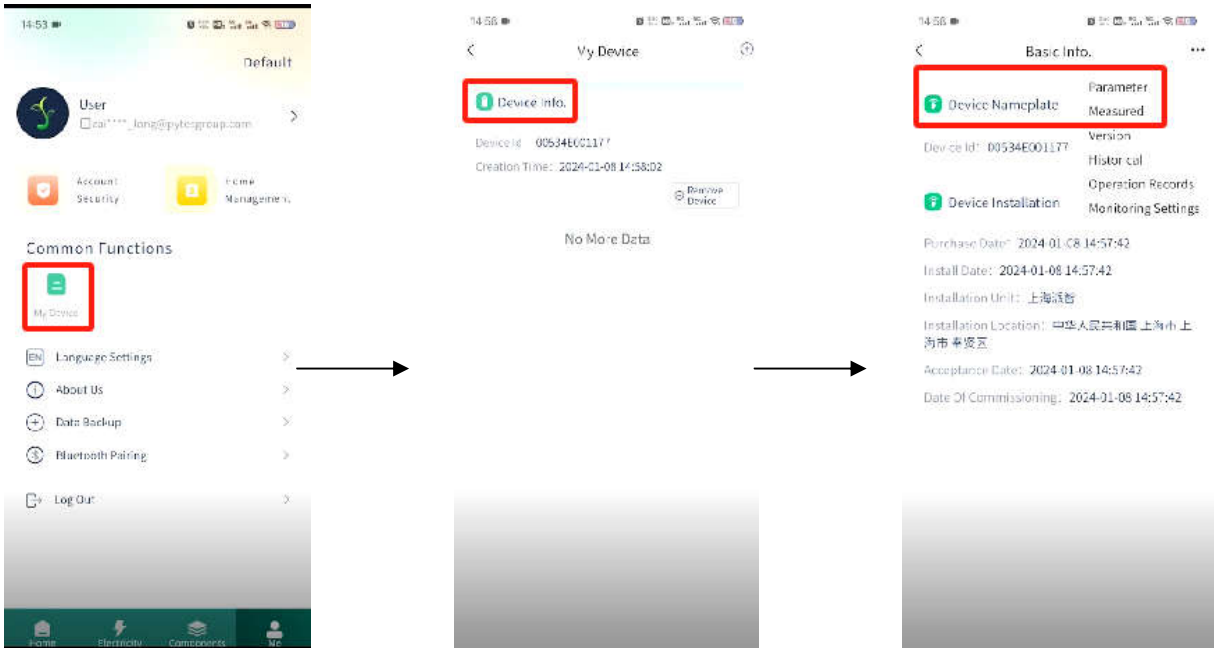
Enter WiFi Name and Password.

Click on Confirm to wait. It will auto pair and display the successfully connected window.



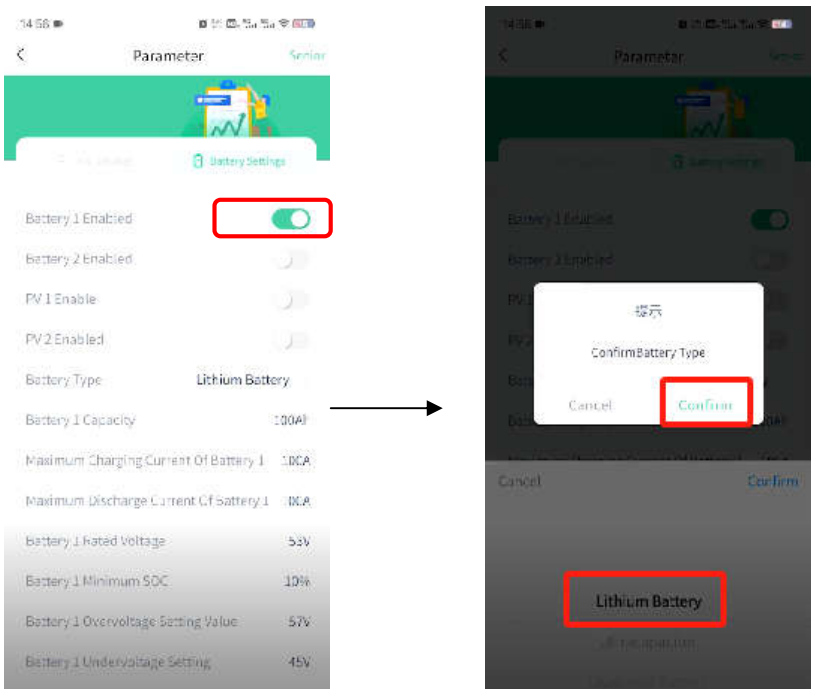
Pic 5.2.4

Click on “My Device” -> ”Device Info” -> “Parameters” for the page to set battery.



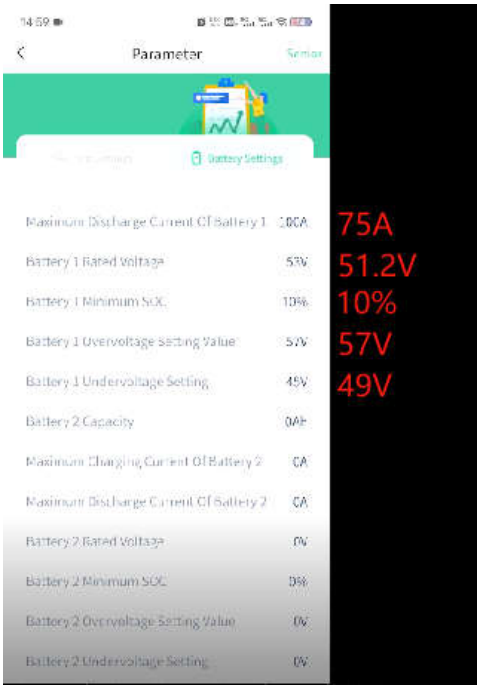
Pic 5.2.5

Enable Battery 1 -> Select Battery Type “Lithium Battery” and click on confirm.



Pic 5.2.6

Set the battery parameters.

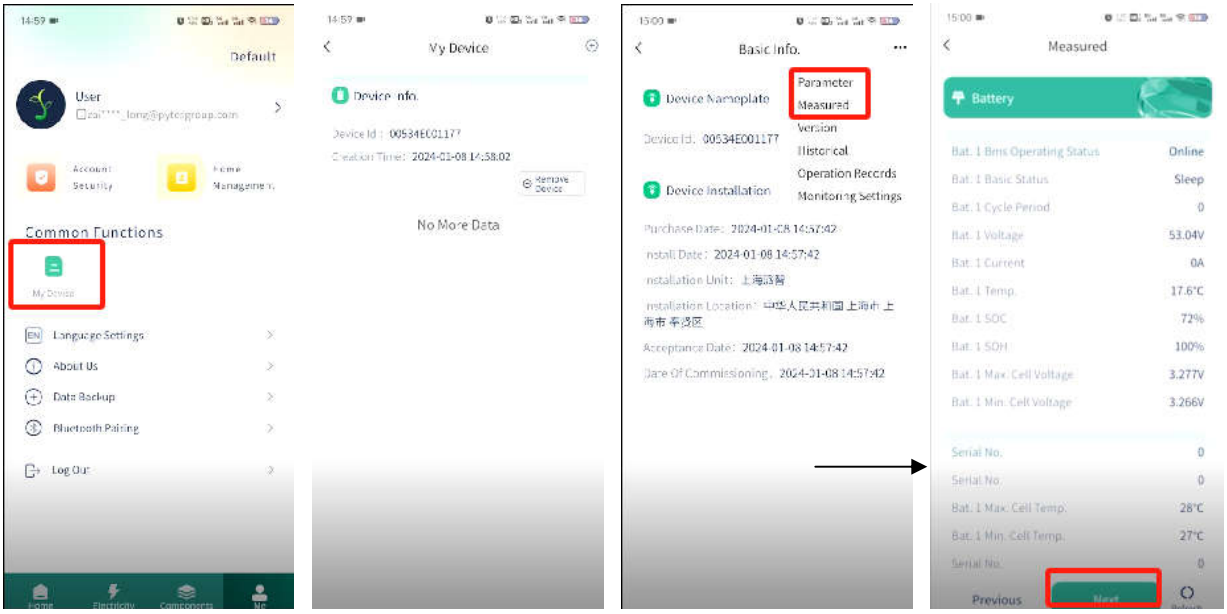


Pic 5.2.7

6.Check the battery SOC

Back to main menu.

Click on “My Device” -> “Device Info” -> “Parameter” -> Next to check battery SOC.



Pic 6.1.1

7. System Monitoring

Download and run Isuna APP for more information and system monitoring.

APP Logo

iSO

Andriod

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