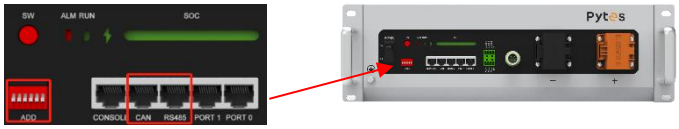
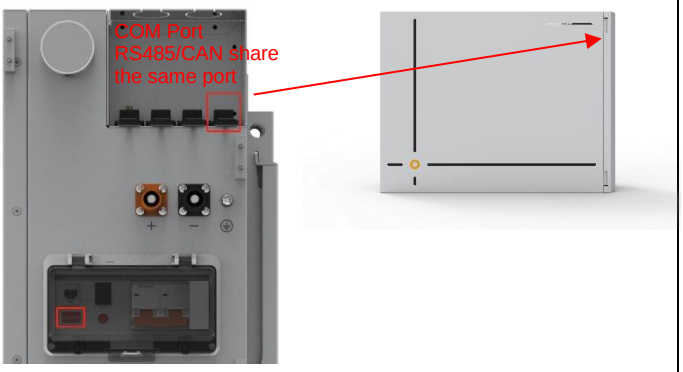
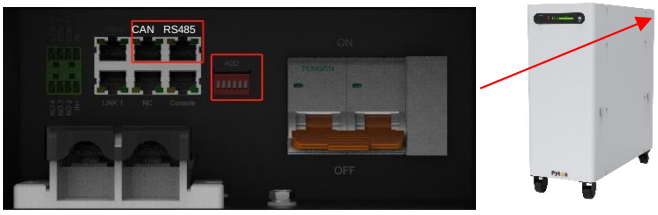
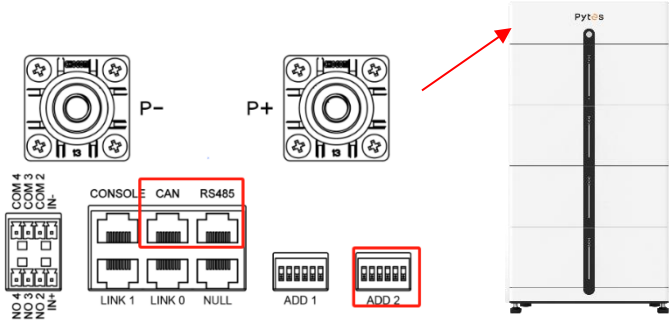
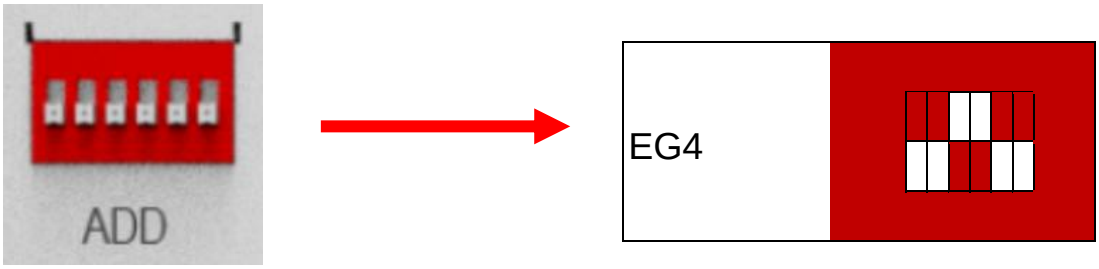
Pytes Low Voltage Battery Series

Configuration Guide with EG4 Inverter

No.	Item Name	Product Picture
1	E-BOX 4850-C	
2	E-BOX 4850G	
3	E-BOX 48100R-C	
4	V5°	
5	V5°α	
6	V5°α Plus	
7	V10/V16	
8	V15	
9	Pi LV1	

Set the Dip Switch

Only need to set the master battery Dip Switch to the corresponding position as shown. The Dip Switch (ADD) location varies for each battery model; please refer to the respective user manual for details.



Select the correct the communication cable between battery and Inverter

Select the correct the communication cable and the correct pinout of communication port on the battery according to the Pin Definition List. If the pin definitions of the battery and inverter align, a standard ethernet cable can be used. Otherwise, the cable needs to be adjusted.

Pin Number	Battery Pin Definition	Inverter Pin Definition
1	RS485B	
2	RS485A	
3	GND	
4	CAN-H	CAN-H
5	CAN-L	CAN-L
6	GND	
7	RS485A	
8	RS485B	

Connect the cables

1. Connect the communication cable between inverter and battery.

First determine the CAN or RS485 port which to plug on the battery according to the Pin Definition List above. Please refer to Inverter user manual to determine which port to plug on the inverter user manual to set up the communication.

2. Connect the power cables between inverter and battery or the battery common busbars.

Different Inverter model and battery model may have different type power terminal, please refer to inverter and battery user manual to connect the power cable.

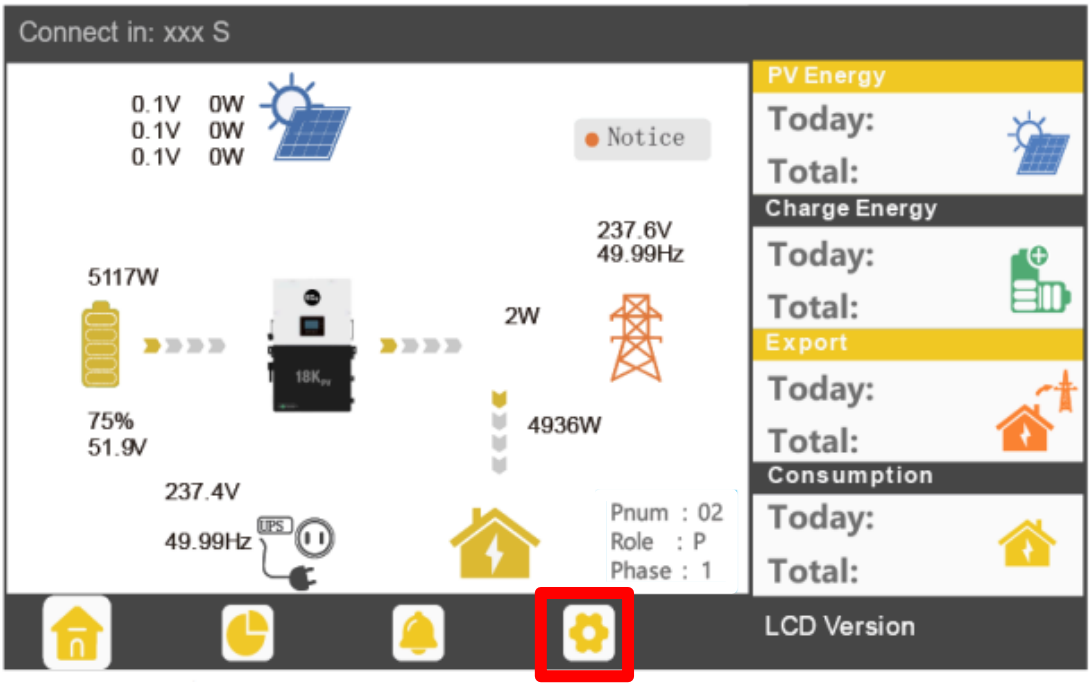
Program the inverter

After battery power cable and communication cable connection, please refer to the inverter and battery user manual to turn on the battery and inverter.

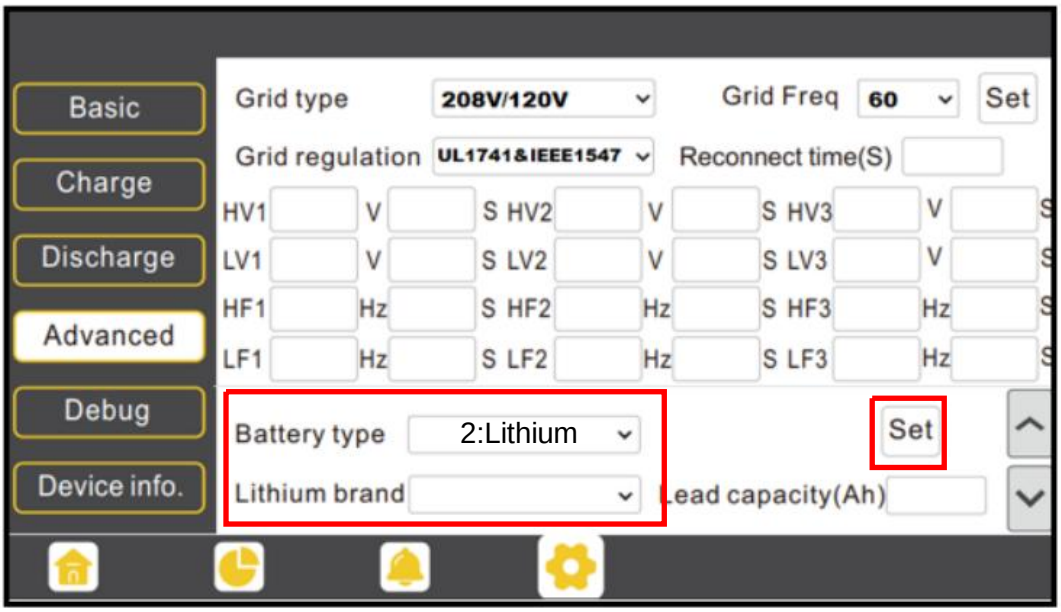
Different EG4 inverter models may have different setting steps, here take EG4® 12/18KPV/ EG4® FlexBOSS18/21and EG4® 6000/12000XP as examples.

EG4® 12/18KPV Setting Steps:

STEP 1 Touch the **setting icon** of screen.



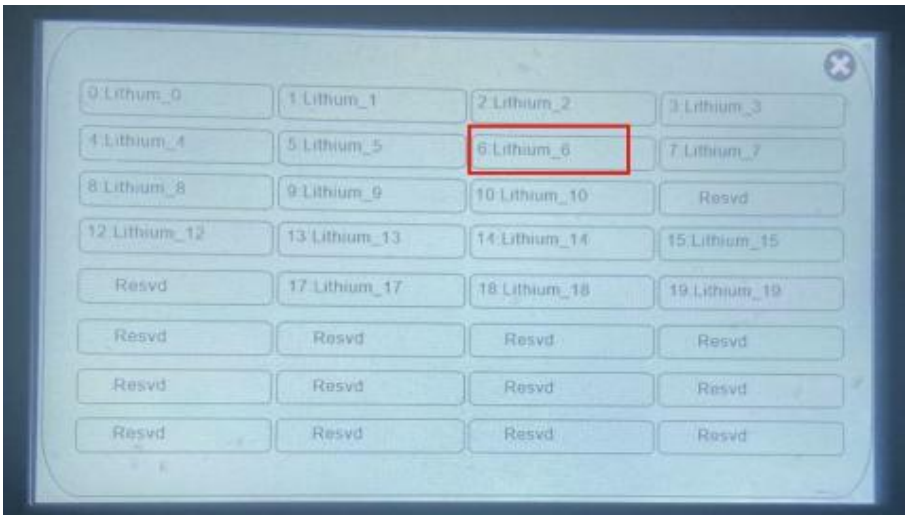
STEP 2 Touch **Advanced** and turn down a page, then choose **2:Lithium** in Battery type.



Advanced setting page

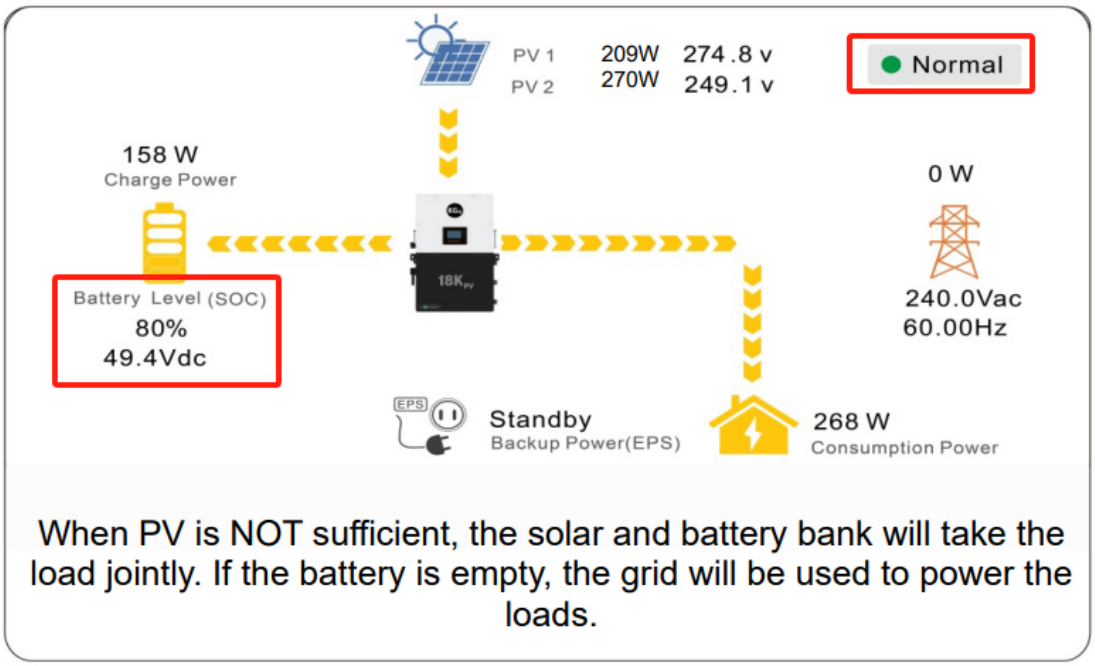
STEP 3 Choose Lithium brand. The password: **00000** is required to enter. Pytes battery should choose **Lithium-6**.

password input page



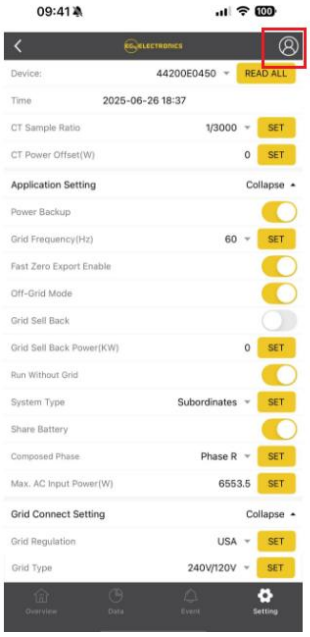
*Choose battery brand page(choose **Lithium_6**)*

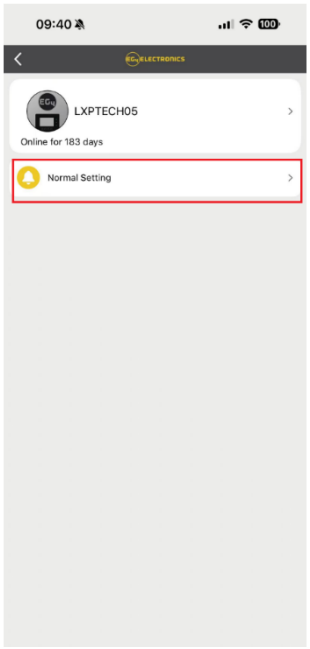
STEP 4 Confirm the communication between inverter and battery is successful. If battery communicate with inverter successfully, battery page will show the specific SOC of battery. Home page battery icon will turn to green (if communication fails, battery icon will turn to red).

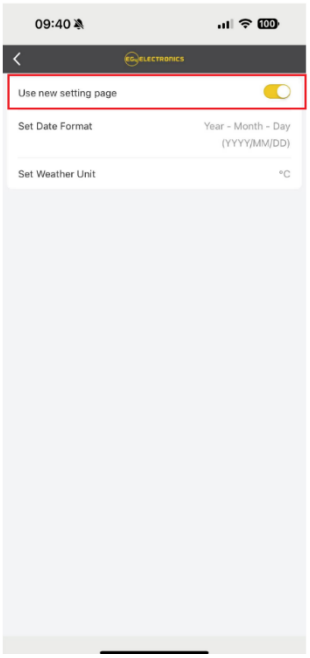


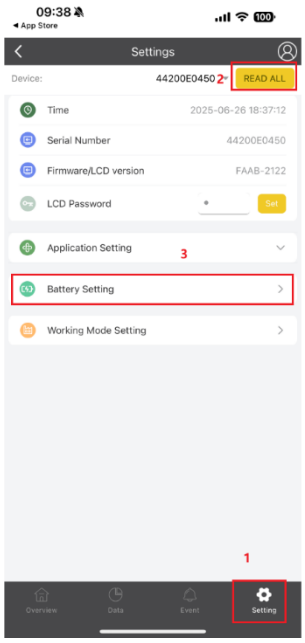
EG4® FlexBOSS18/21 Setting Steps:

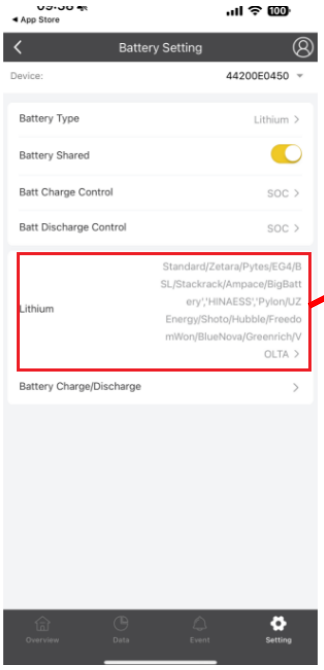
APP:





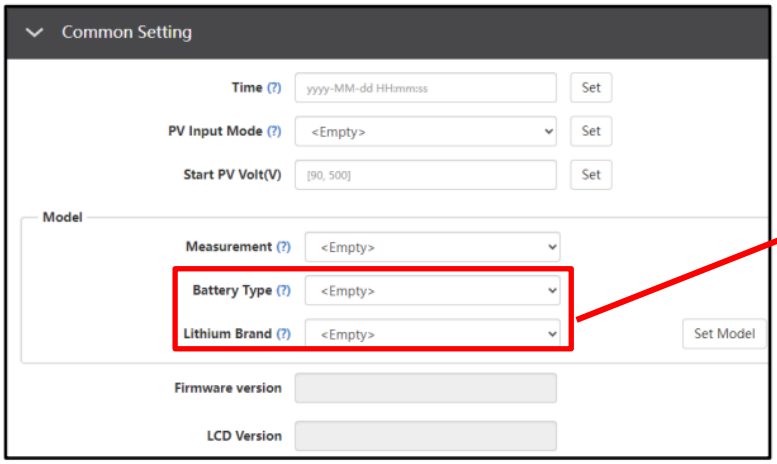






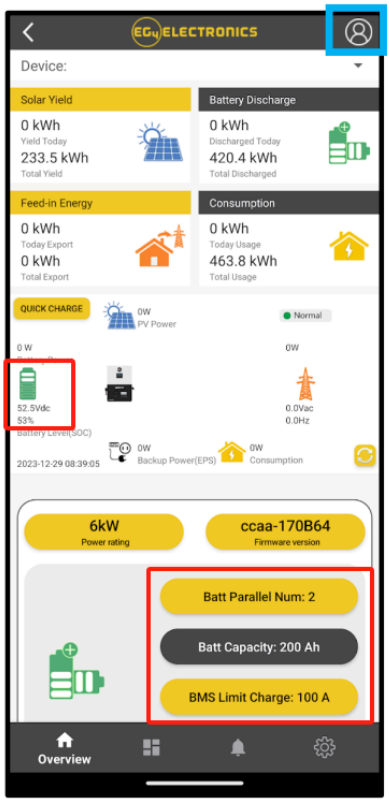
Choose "**Standard**"

Web:

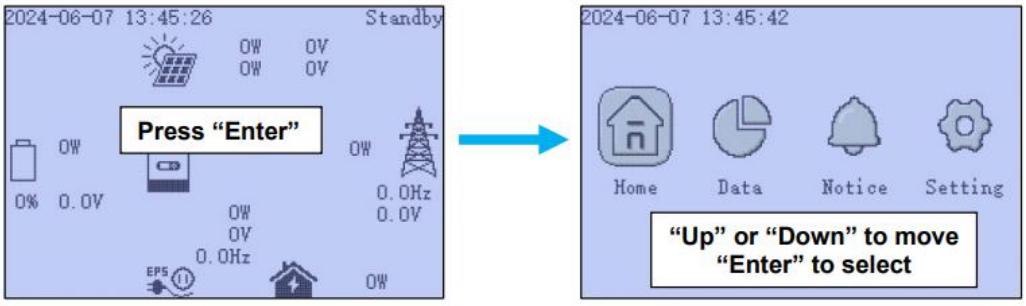


1. Battery Type Choose "**Lithium**"
2. Lithium Brand Choose"**Standard**"

When you can see the battery detailed parameter like SOC, Capacity, etc. It means the communication is successful.

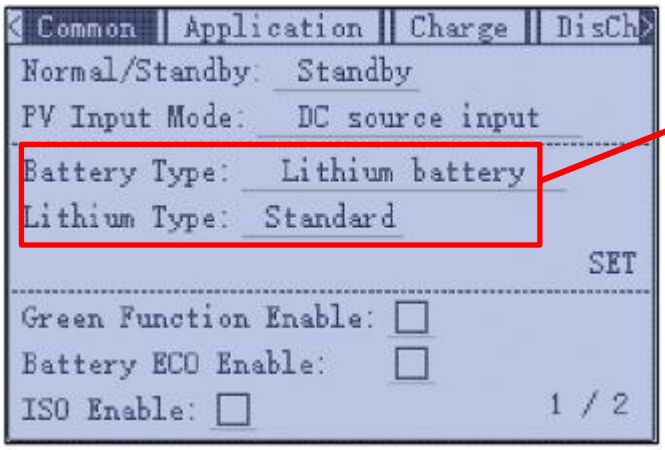


EG4® 12000XP Setting Steps:



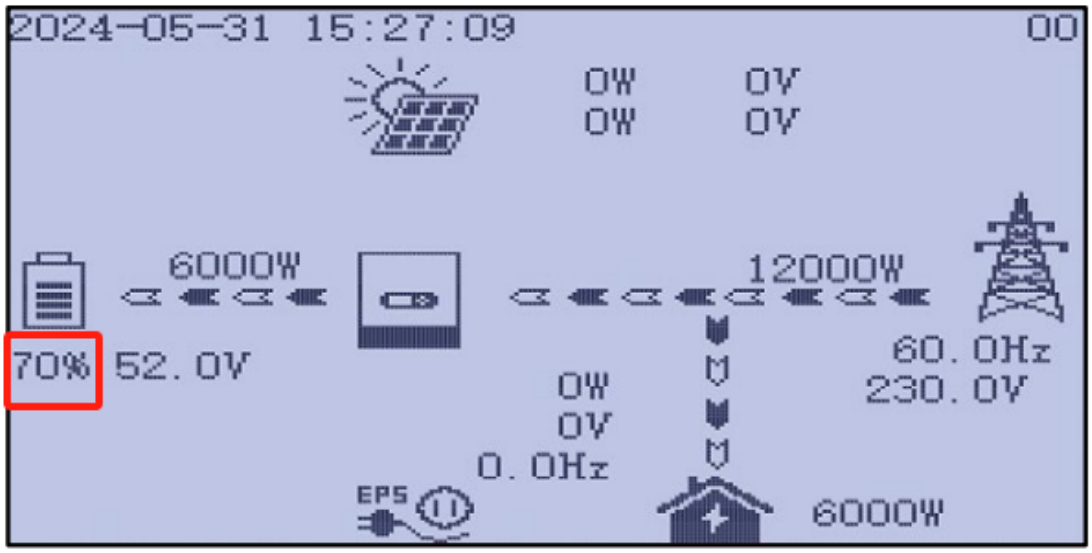
Move to Setting Menu and Press Enter

Common Tab



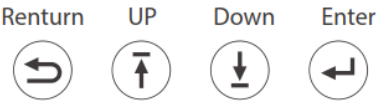
Battery Type
Choose "**Lithium**"
Lithium Brand
Choose"**Standard**"

When you can see the battery detailed parameter like SOC, Capacity, etc. It means the communication is successful.



EG4® 6000XP Setting Steps:

There are four buttons on the LCD.



Step for setting by the display:

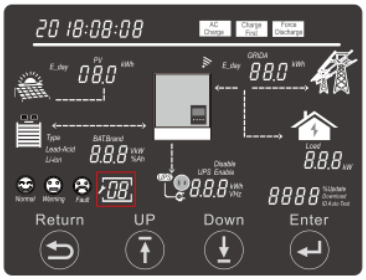
Step 1: After touch Enter button for about 2 seconds, the unit will enter setting mode. The setting icon and index will flashing.

Step 2: Touch UP or Down button to select setting index form 1 to 19.

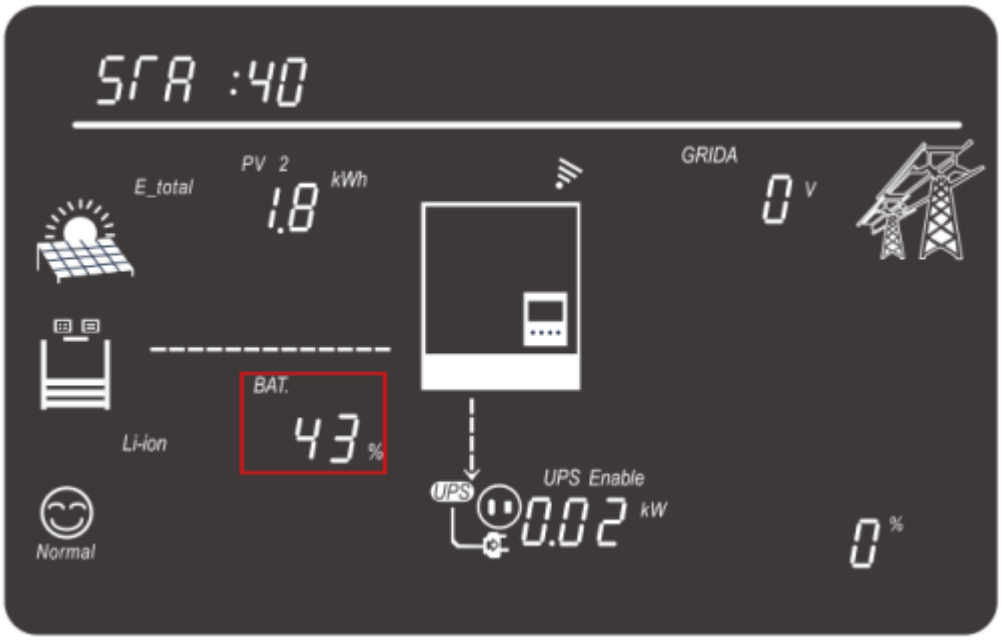
Step 3: Then touch Enter button to set this item

Step 4: Touch UP or Down button to change the settings

Step 5: Touch Enter to confirm the setting or Return the setting list is as below.



3	Battery	Press the Up/Down buttons to enter the Index 3. Battery Options: Step 1: Choose battery type first, when Li-ion flashing, select Enter to choose Li-ion battery Step 2: Choose battery brand Choose 6-> Luxpower protocol Battery

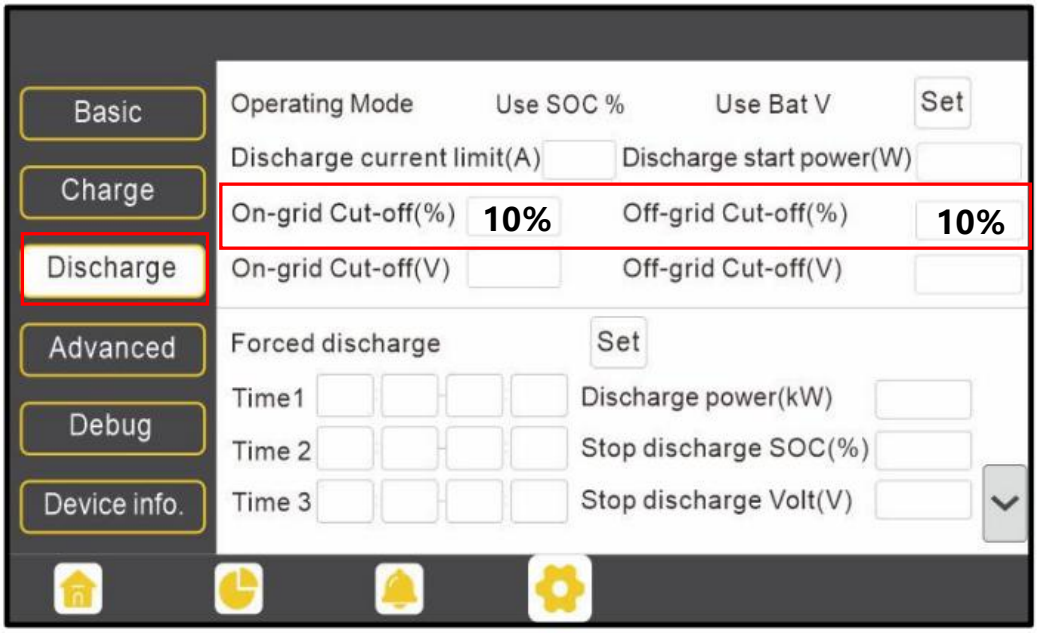


When you can see the battery detailed parameter like SOC, Capacity, etc. It means the communication is successful.

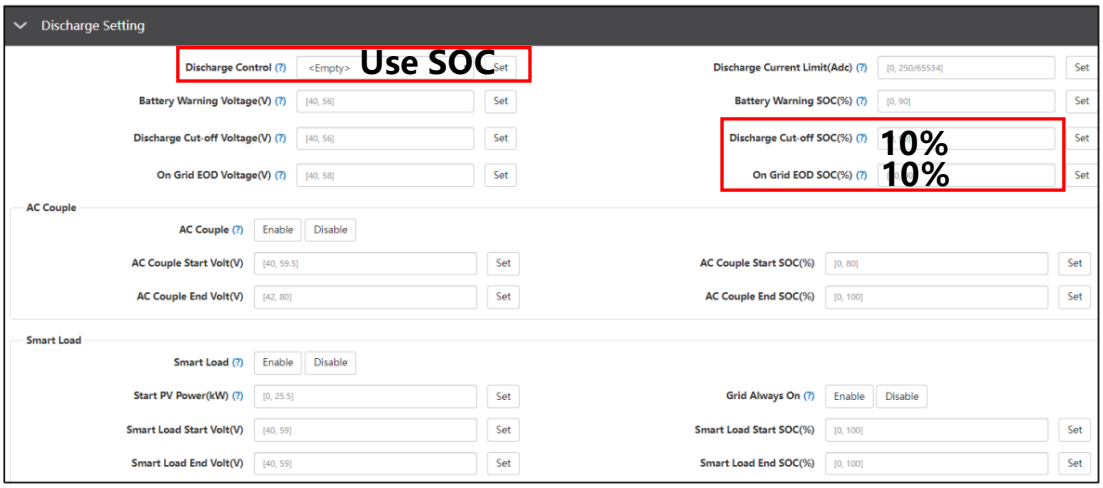
Battery Recommended Discharge Cut-Off SOC Setting

Recommended to set **minimum On-grid Cut-off(%), off-grid Cut-off(%)** to **10%**, and save. You can set them higher depends on your needs.

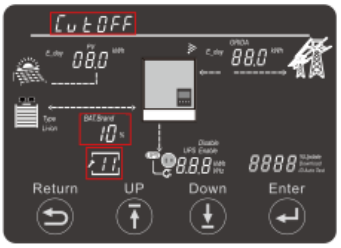
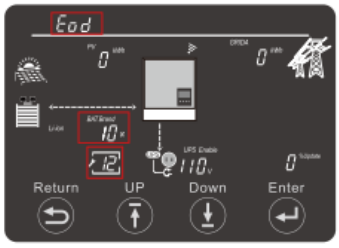
EG4® 12/18KPV Setting Steps:



EG4® FlexBOSS18/21 Setting Steps:

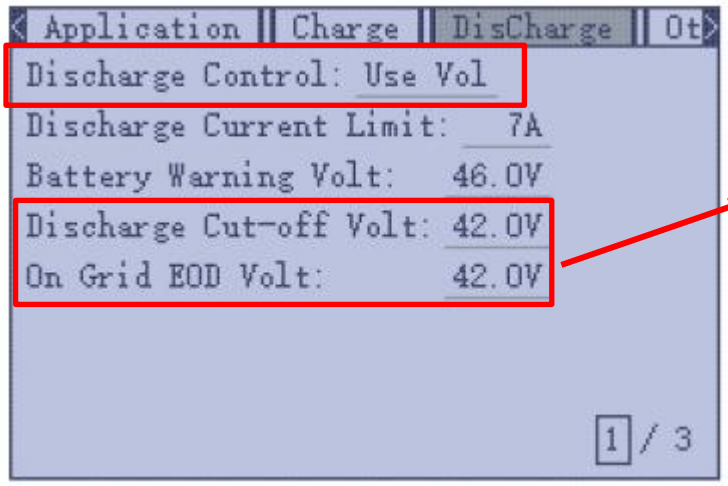


EG4® 6000XP Setting Steps:

10	TEOd: Discharge control type: VOLT/SOC	 Enter the Index 10. Set to SOC 
11	CutOFF: Cut off SOC, depend on TEOd	 Enter the Index 11. Set to 10% 
12	Eod: Discharge end soc with grid, depend on TEOd	 Enter the Index 12. Set to 10% 

EG4® 12000XP Setting Steps:

Discharge Tab



Discharge Control
Set to "**Use SOC**"
Discharge Cut-off SOC
Set to "**10%**"
On Grid EOD SOC
Set to "**10%**"