GSL ENERGY

— SINCE 2006 —

Hybrid Inverter Operating Instructions

GSL ENERGY
SINCE 2006

1.Inverter Model: GSL-H-8KLV-US ,CAN protocol

2.Battery Model: 51.2V200Ah

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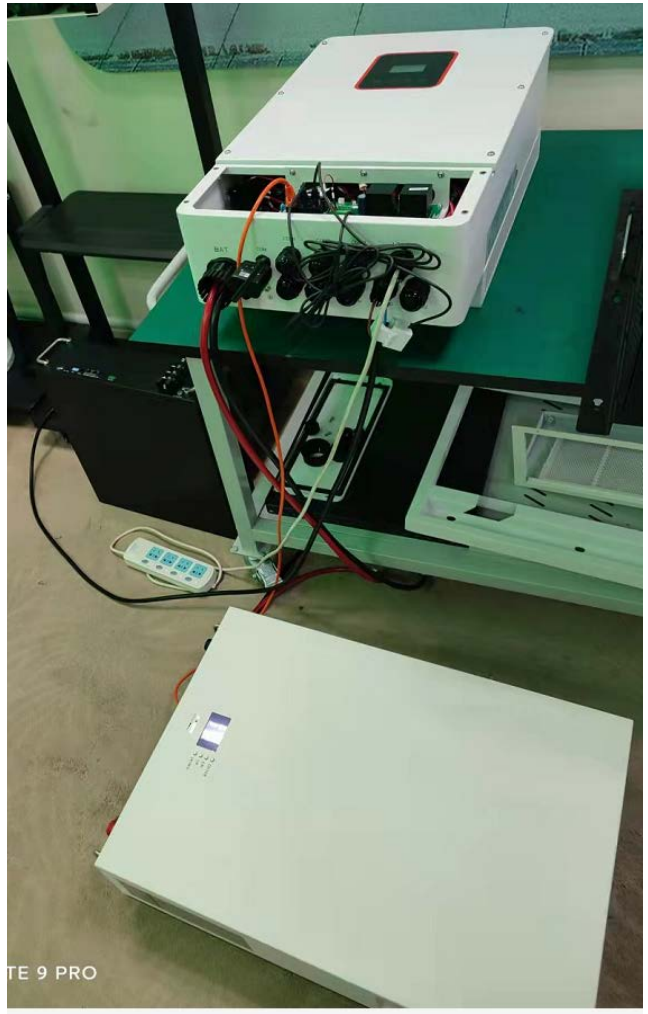
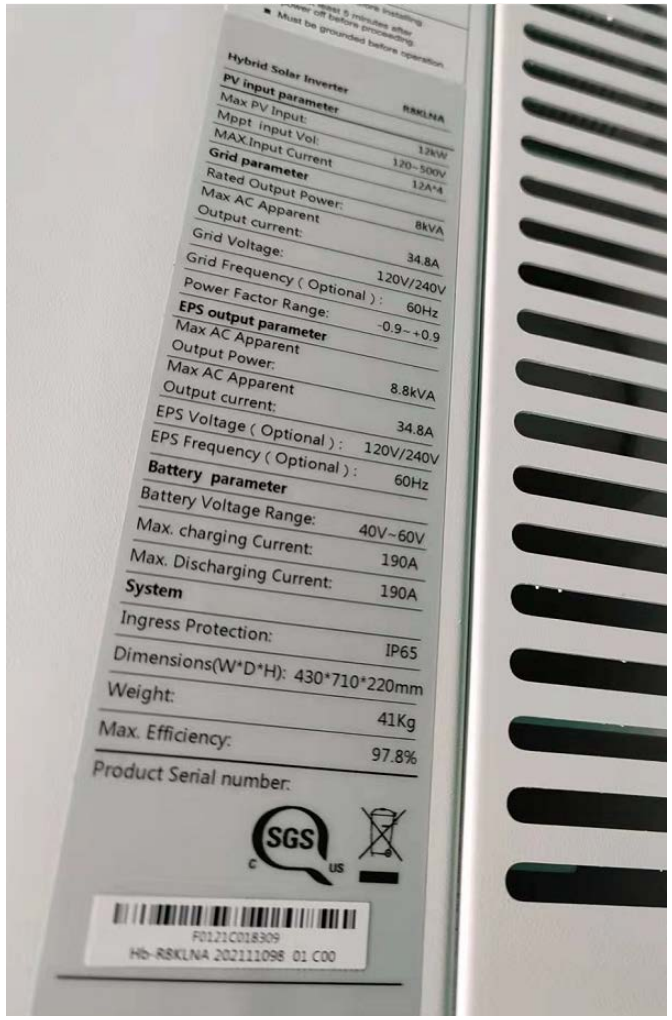
1.Inverter pictures and label





1.Inverter Communication Port Definition in Lithium Battery Mode.

BMS PIN Definition

Communication interface between inverter and battery is RS485 or CAN with a RJ45 connector.

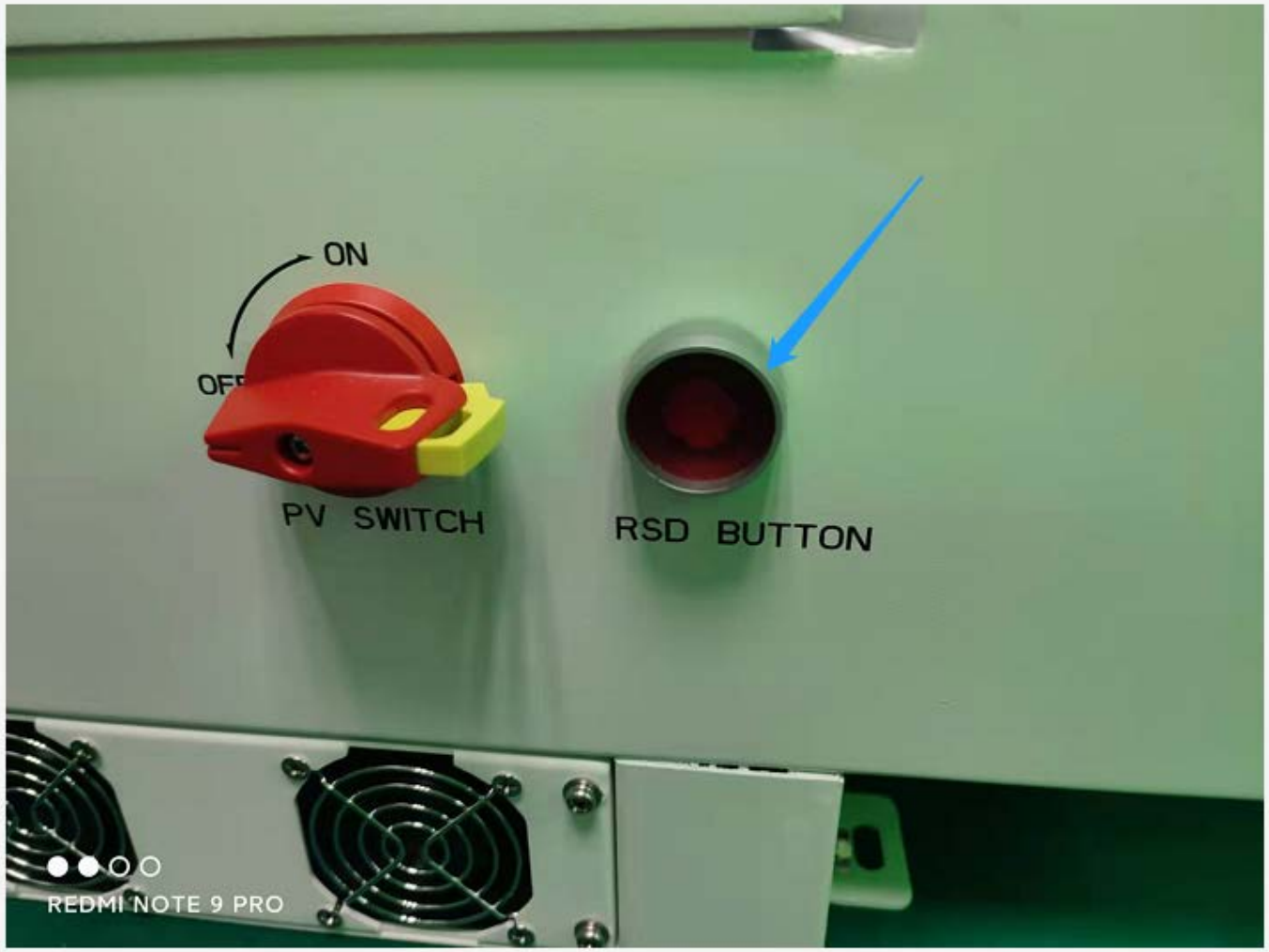
	PIN	1	2	3	4	5	6	7	8
CAN	Definition	X	X	X	BMS_CANH	BMS_CANL	X	X	X
RS485	Definition	X	X	X	X	X	GND	BMS_485A	BMS_485B

When using RS485 protocol, please note that PIN2 must be disconnected!

Note!

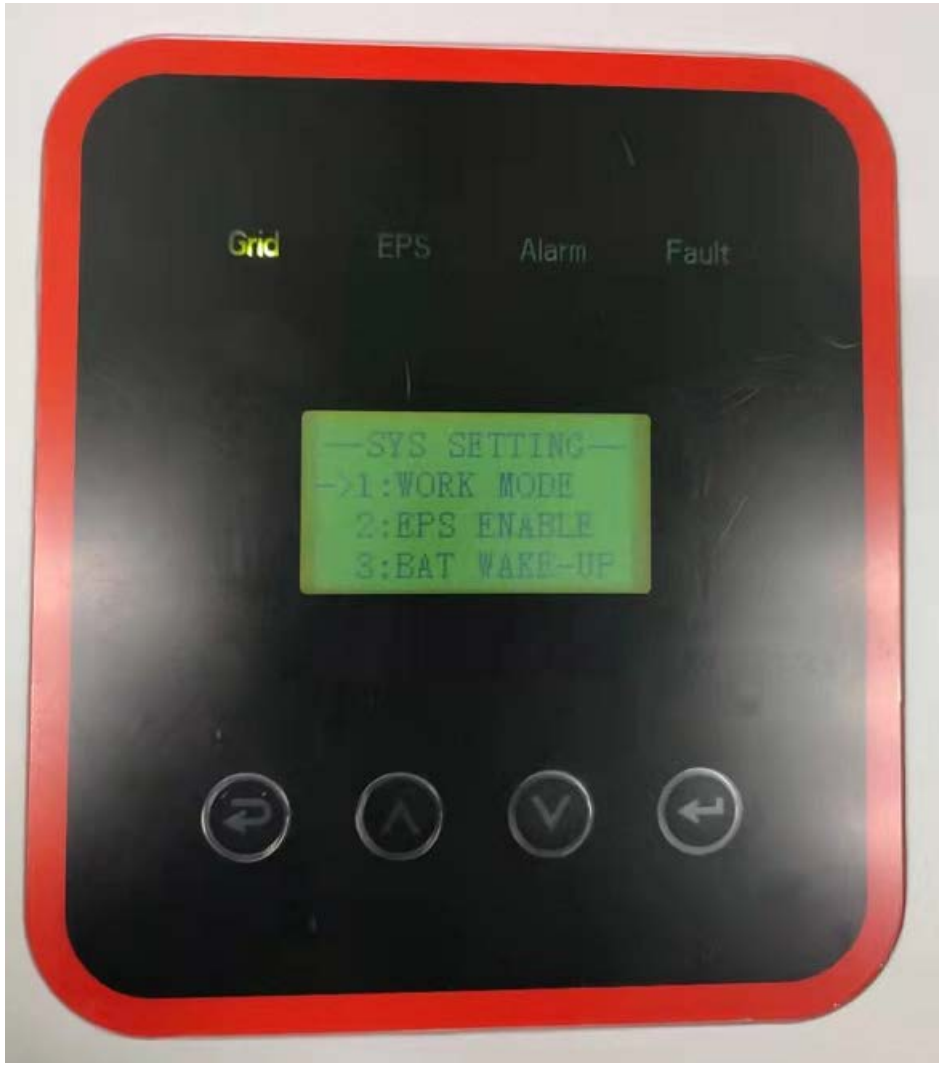
The battery communication can only work when the battery BMS is compatible with the inverter.

2.When the wiring is completed, please press the RSD BUTTON of the inverter to turn on the inverter (switch).



3.The main interface of the inverter is as follows, Press the  button to enter the next interface.The default password of the inverter is: 00000, and then press the  key.

3.1Enter the setting interface, click SYS SETTING to enter the SYS SETTING interface. Click WORK MODE.

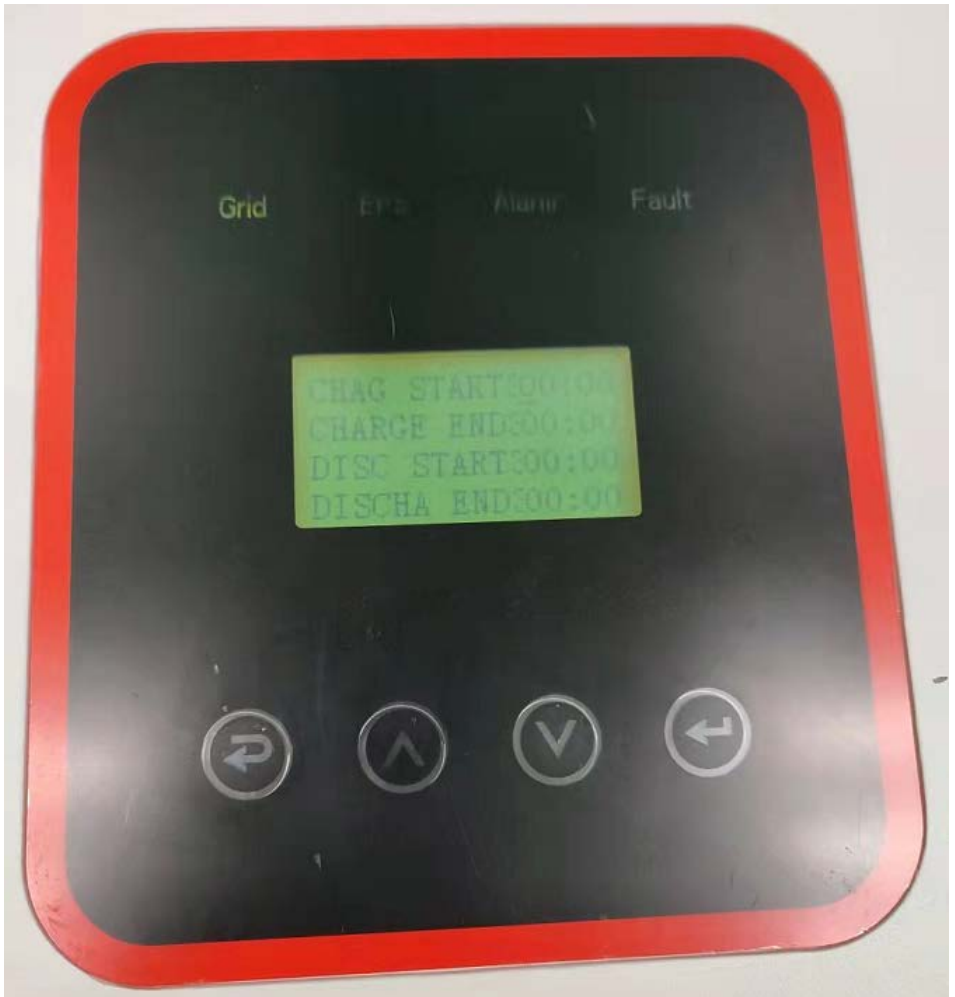


3.1.1 After entering WORK MODE, SELF CONSUME (spontaneous use), PEAK SHIFI (peak shaving and valley filling is grid-connected discharge mode) and BAT PRIORITY will be displayed. In PEAK SHIFI mode, there will be WORK TIME options, namely Time 1, Time 2 and Time 3.

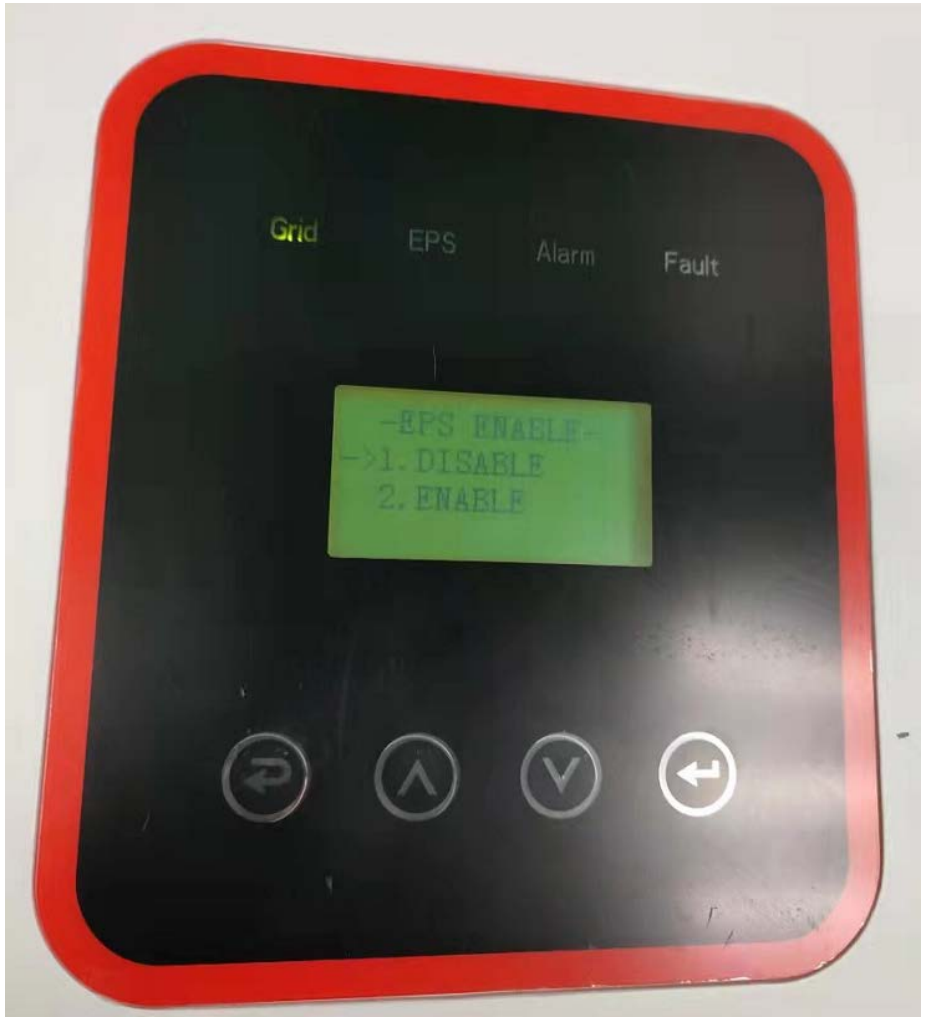
After entering Time 1, enter the charging and discharging time period settings.

After entering Time 2, enter the charging and discharging time period settings.

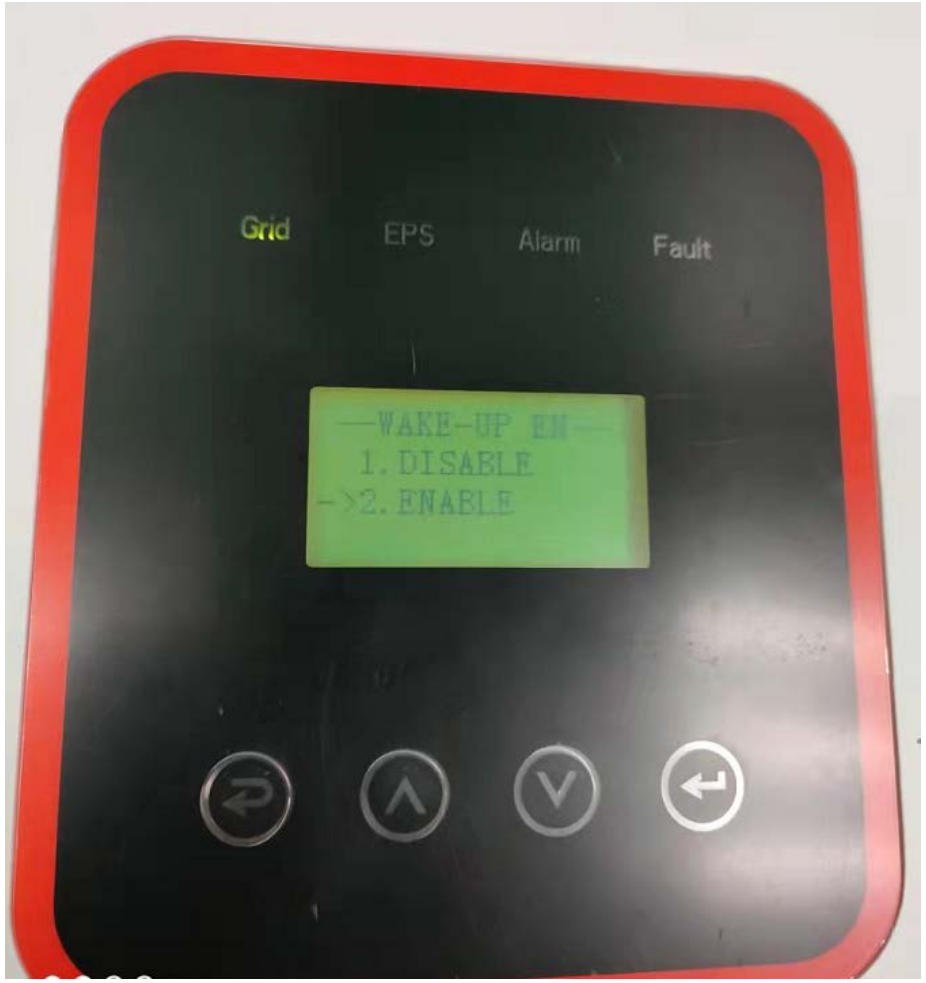
After entering Time 3, enter the charging and discharging time period settings.



3.1.2 Click EPS ENABLE to enter the EPS ENABLE interface.

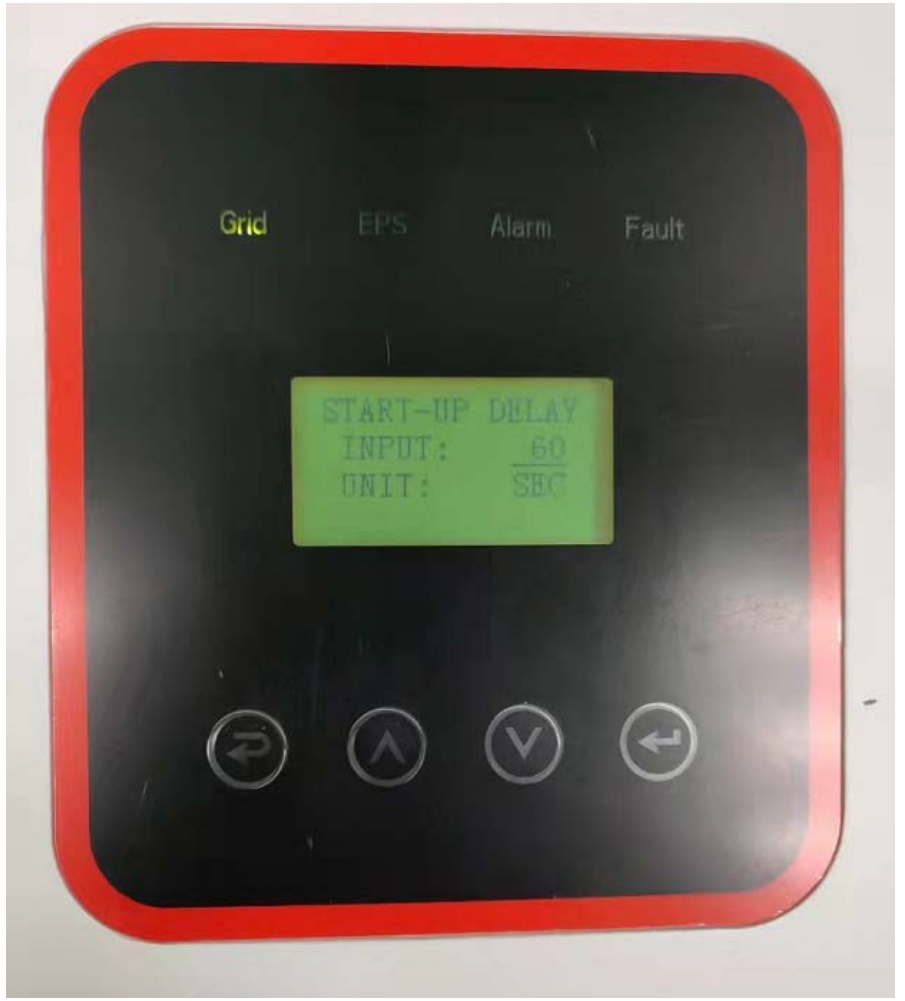


3.1.3Click BAT WAKE-UP to enter the BAT WAKE-UP interface.There is no wake-up function in lead-acid battery mode. At the same time, there is no SOC calculation function.

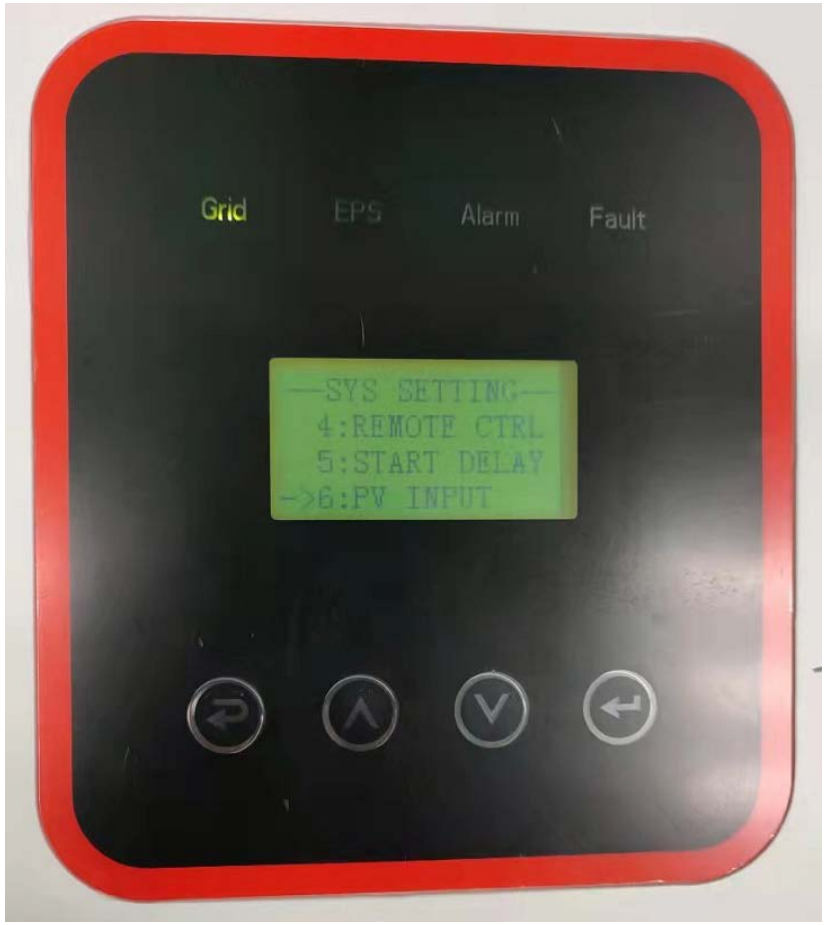


3.1.4Click REMOTE CTRL to enter the REMOTE CTRL interface

3.1.5Click START DELAY to enter the START DELAY interface and enter the corresponding time value.



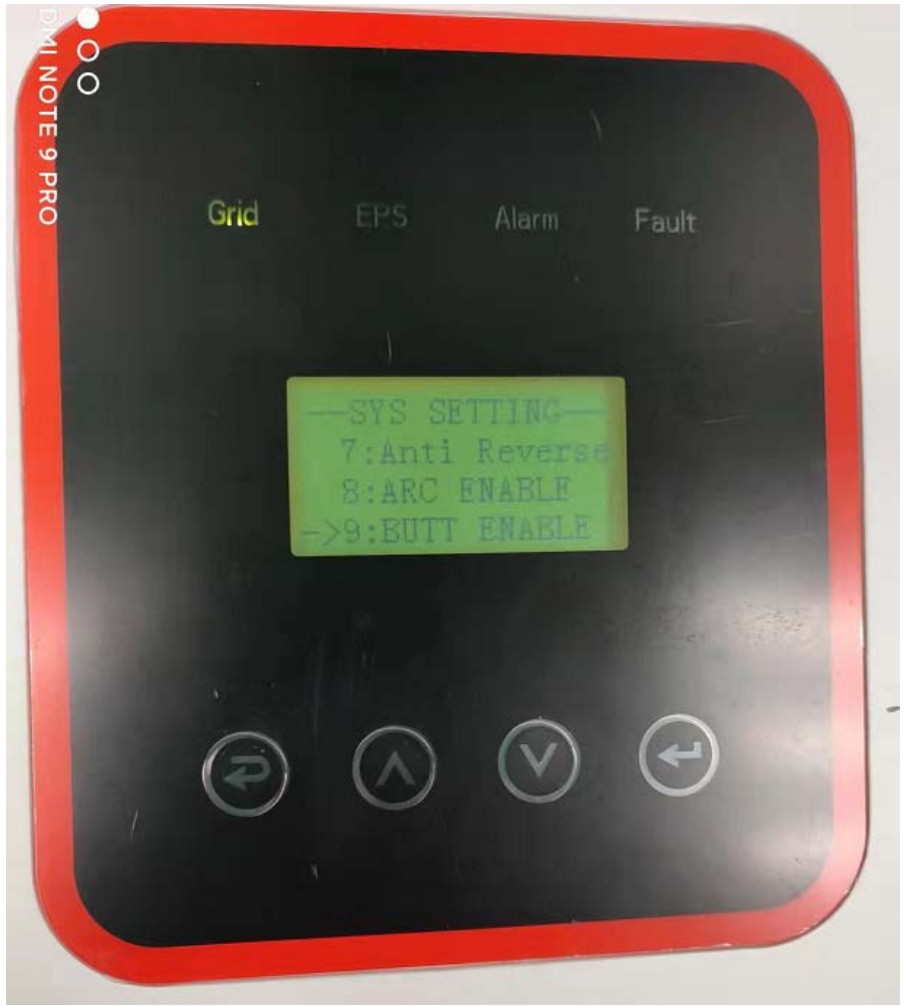
3.1.6Click PV INPUT to enter the INPUT MODE interface. There are a total of 3 modes to choose from, namely INDEPENDANT, PARALLEL and CV.



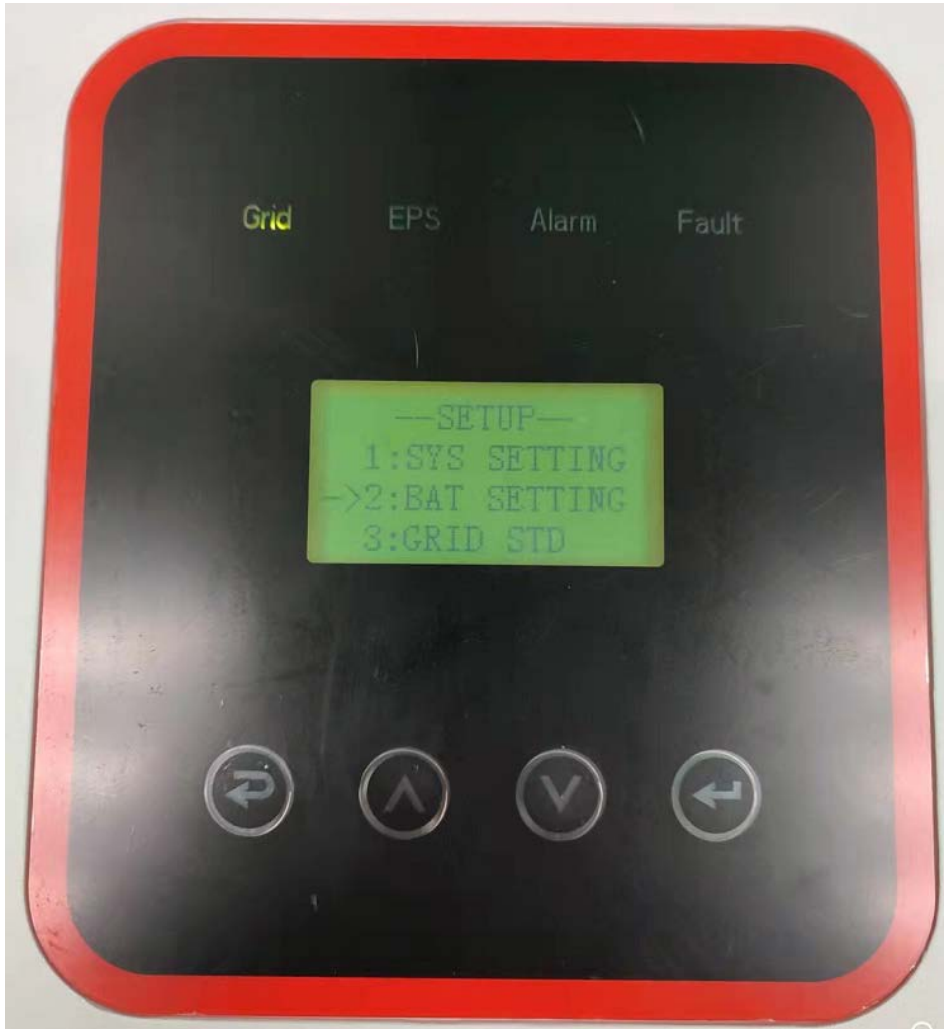
3.1.7Click Anti Reverse to enter the AntiReverse interface.

3.1.8Click ARC ENABLE to enter the ARC interface.

3.1.9Click BUTT ENABLE to enter the BUTTON ENABLE interface.

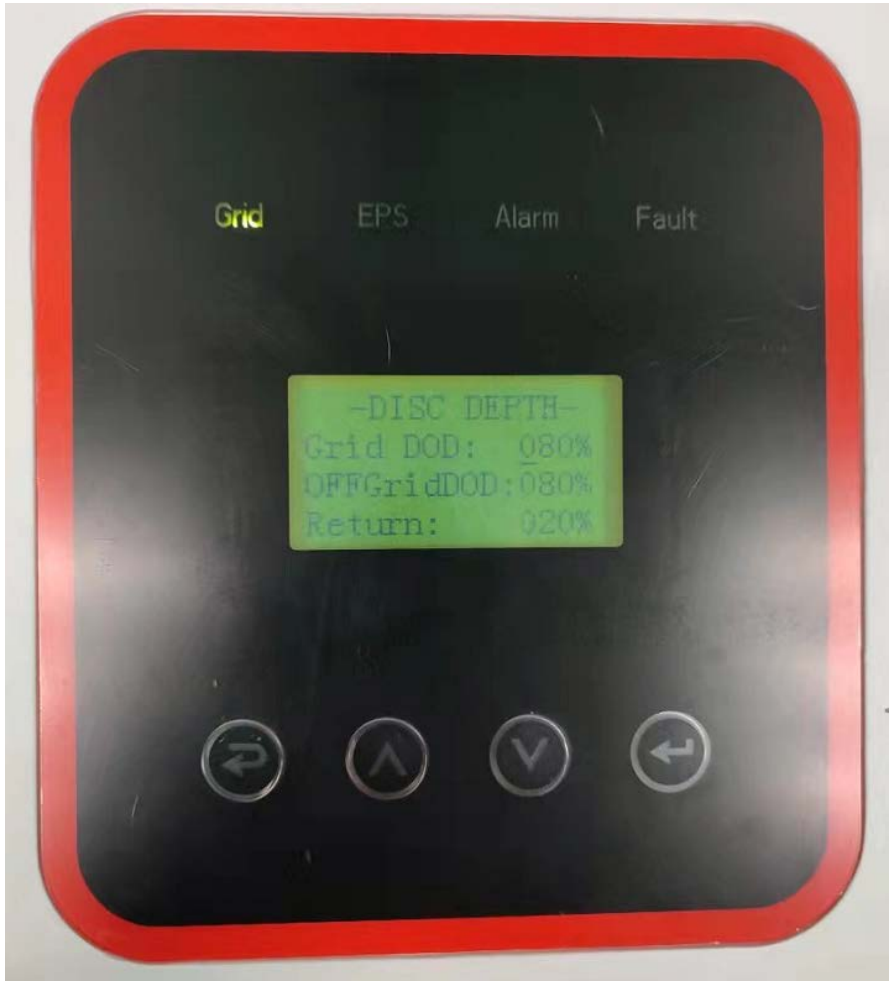


3.2 Click BAT SETTING to enter the BAT SETTING interface.



3.2.1 Enter the BAT SETTING interface, click BAT TYPE to select the corresponding battery.

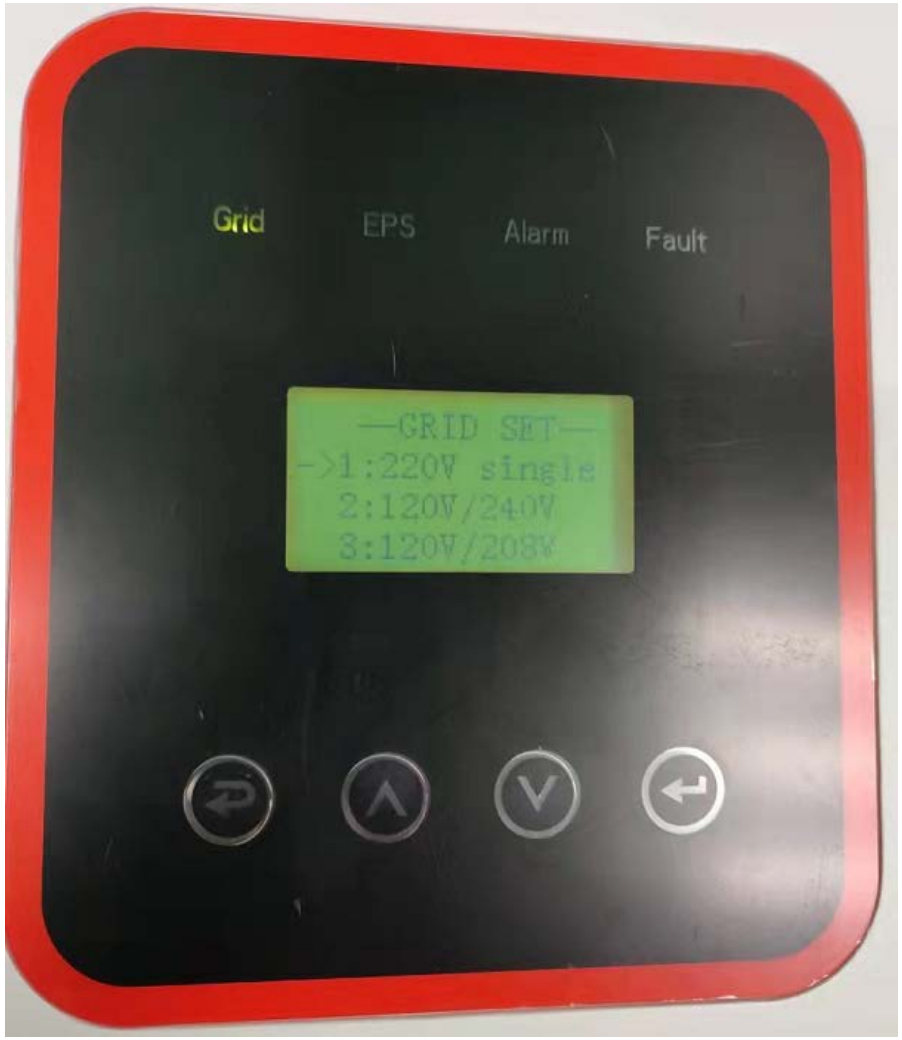
3.2.2Click DISC-DEPTH to enter the DISC DEPTH interface and enter the corresponding percentage.（Recommended 80%）



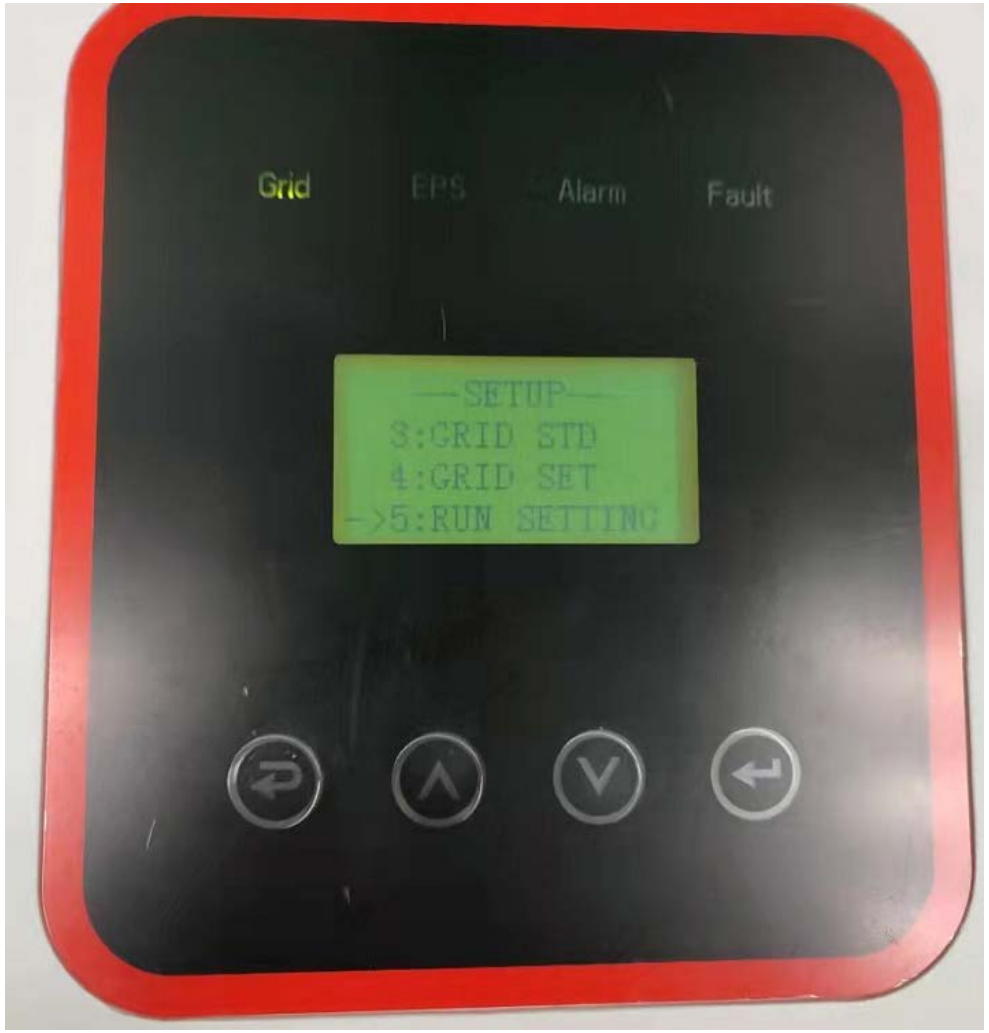
3.2.3Click CHARG-CURR to enter the CHARGE CURR interface. Enter the value of the current.

3.3Click GRID STD to enter the GRID STD interface and select the standard of the corresponding region. There are 11 options for the inverter.

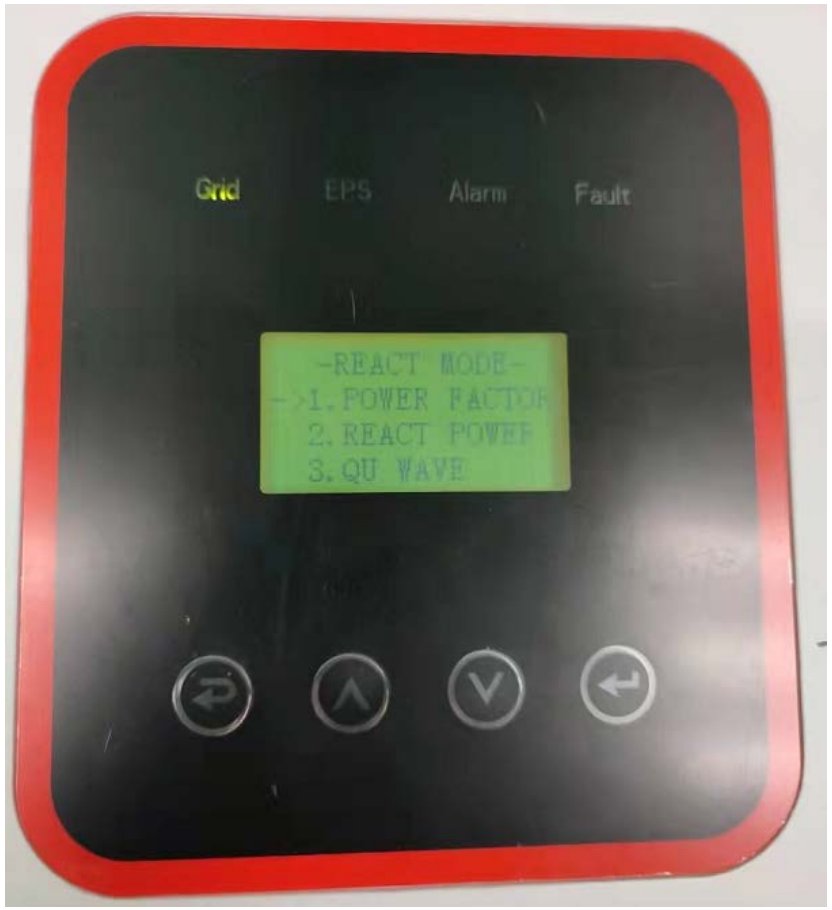
3.4Click GRID SET to enter the GRID SET interface and select the corresponding voltage.

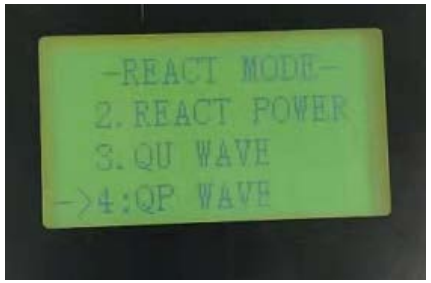


3.5 Click RUN SETTING to enter RUN SETTING mode.



3.5.1Click REACT MODE to enter the REACT MODE interface. There are a total of 4 options, namely POWER FACTOR, REACT POWER, QU WAVE and QP WAVE.

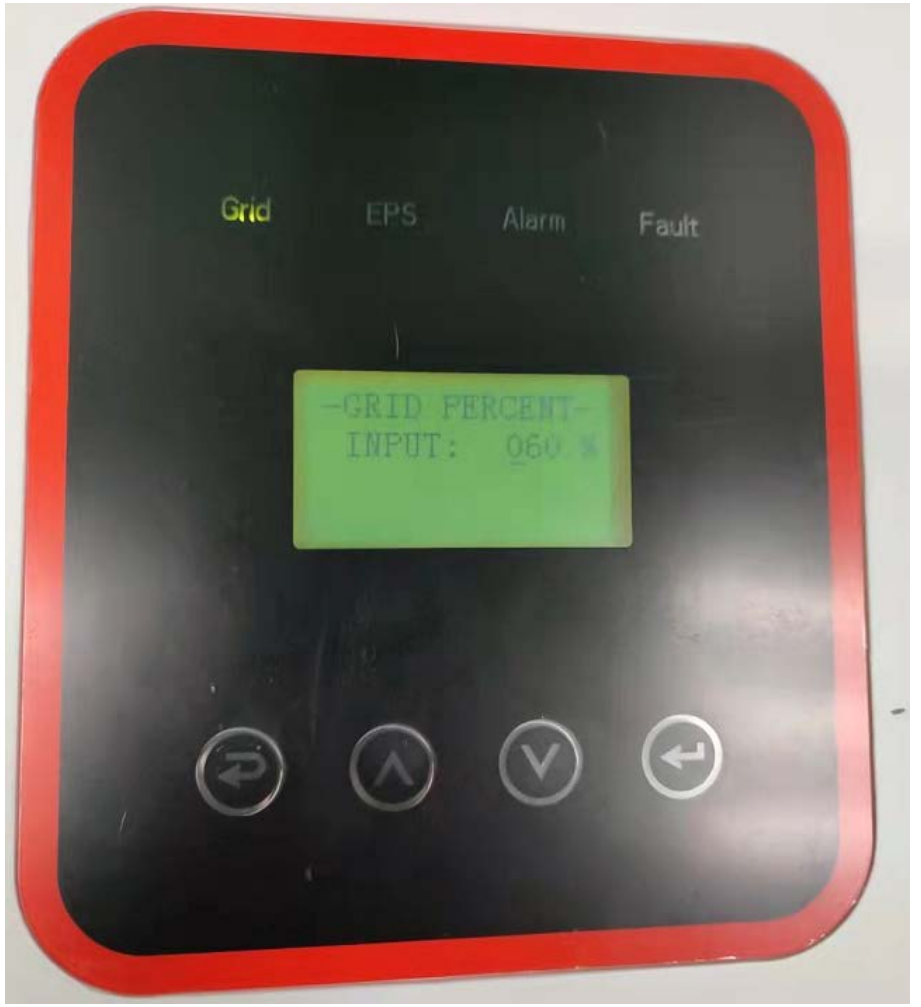




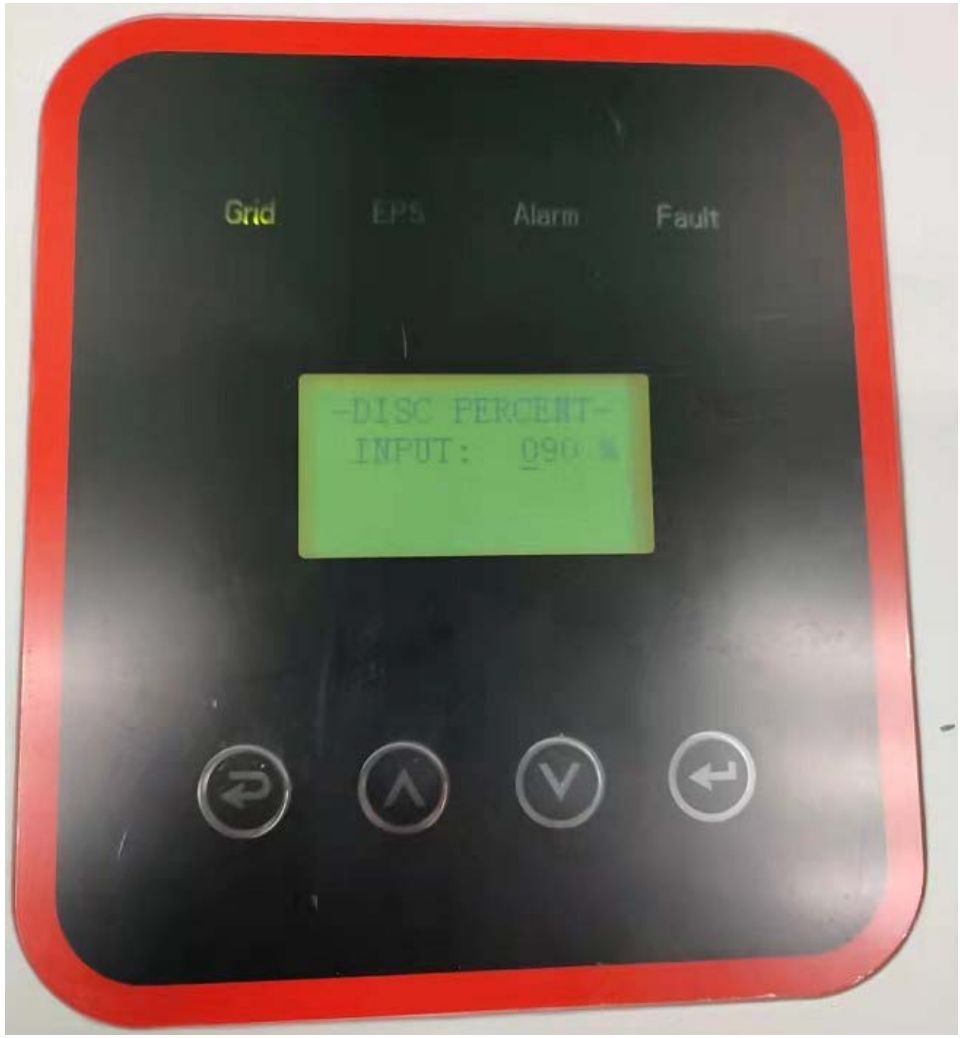
3.5.1.1Click POWER FACTOR to enter the POWER FACTOR interface and enter the corresponding value.

3.5.1.2Click REACT POWER to enter the REACT POWER interface and enter the corresponding value.

3.5.2 Click GRID POWER to enter the GRID POWER interface, enter the value.



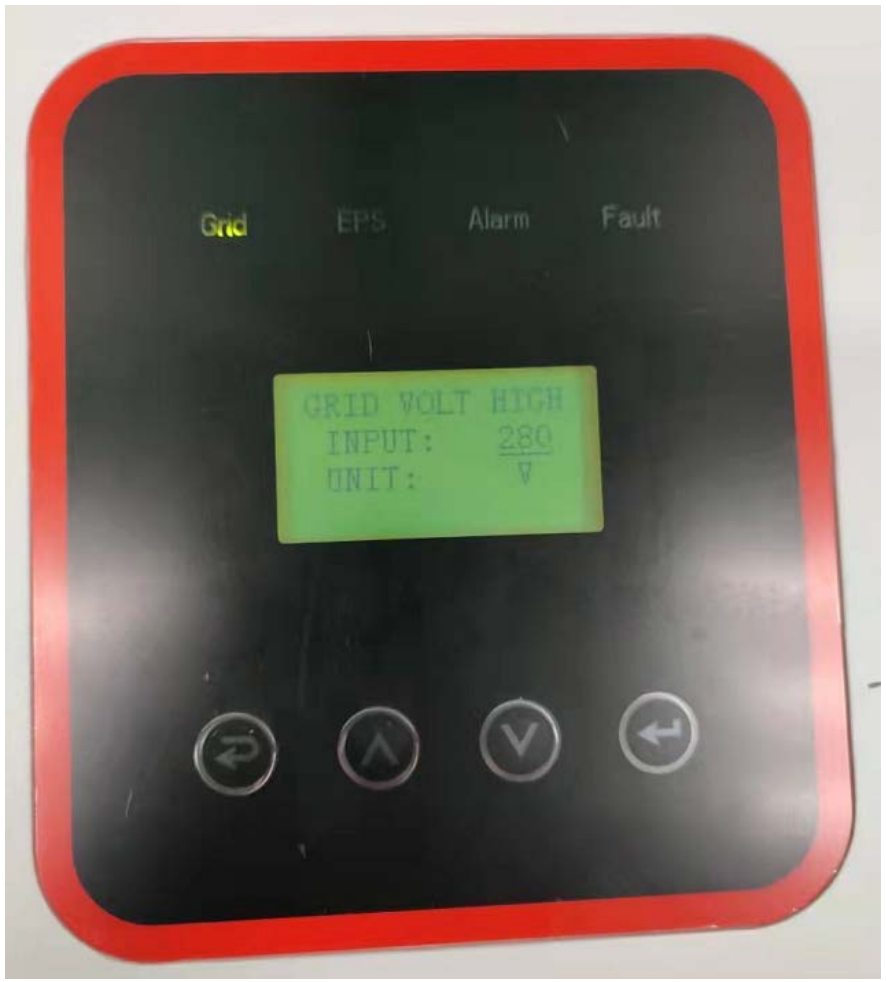
3.5.3 Click DISC POWER to enter the DISC POWER interface and input the value.



3.5.4 Click PV POWER to enter the PV POWER interface and input the value.

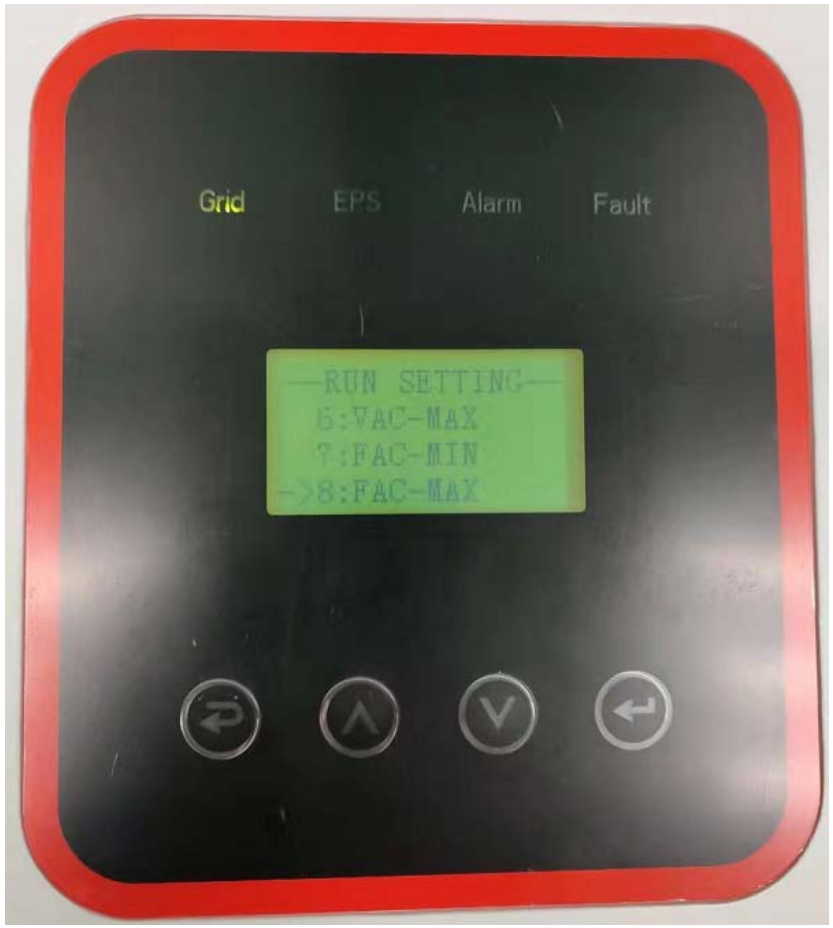
3.5.5Click VAC-MIN to enter the GRID VOLT LOW interface, and input the voltage value.

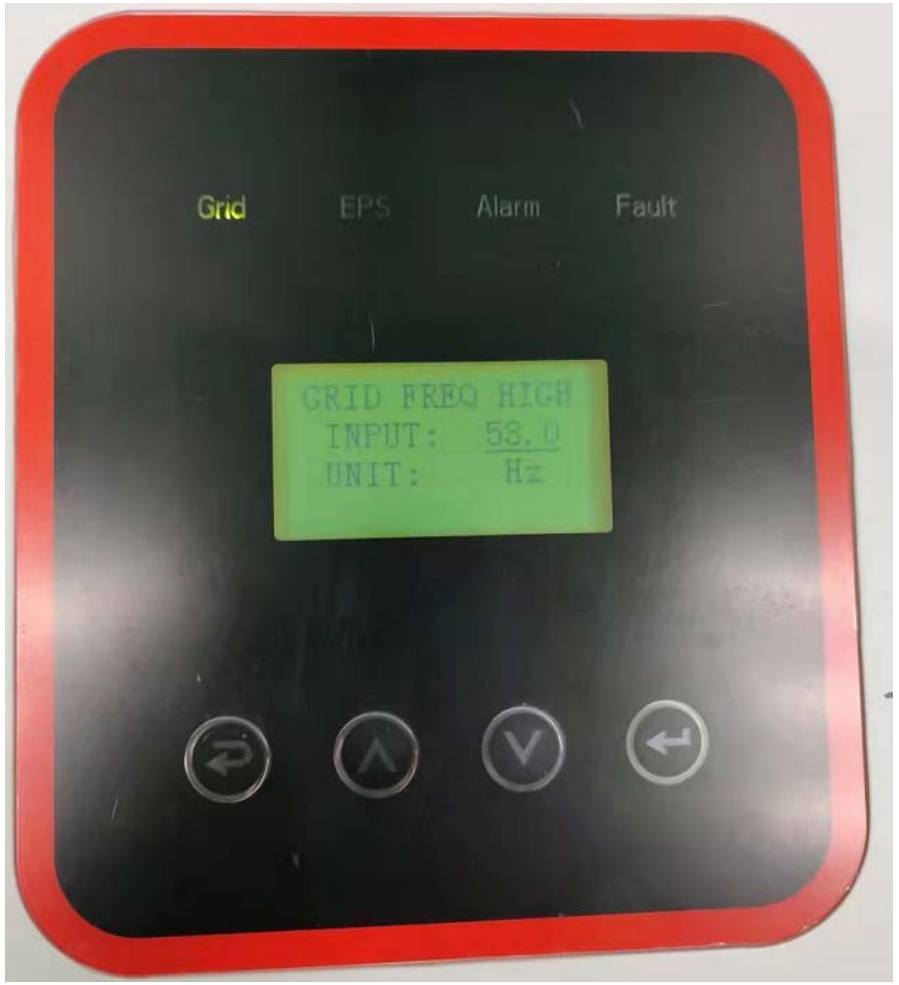
3.5.6 Click VAC-MAX to enter the GRID VOLT HIGH interface, and input the voltage value.



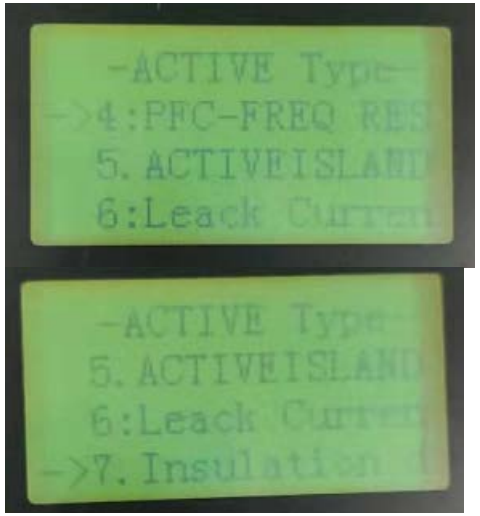
3.5.7 Click FAC-MIN to enter the GRID FREQ LOW interface and enter the frequency value.

3.5.8 Click FAC-MAX to enter the GRID FREQ HIGH interface and input the frequency value.

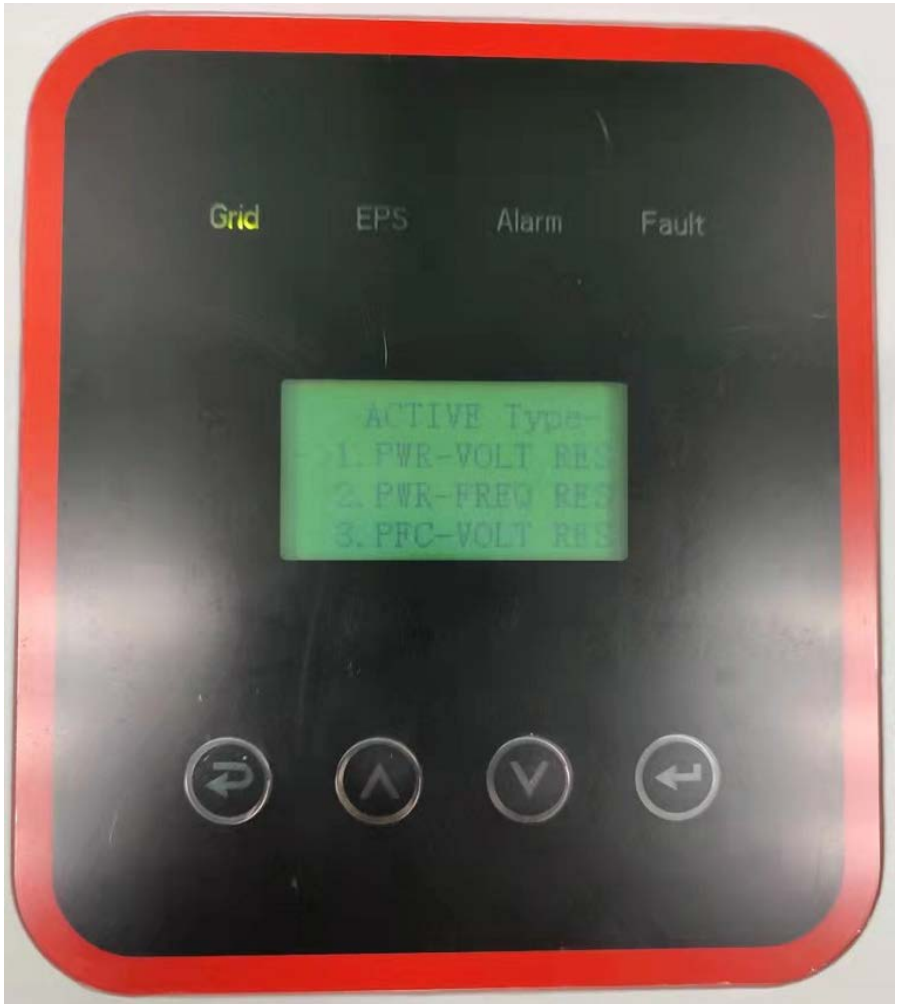




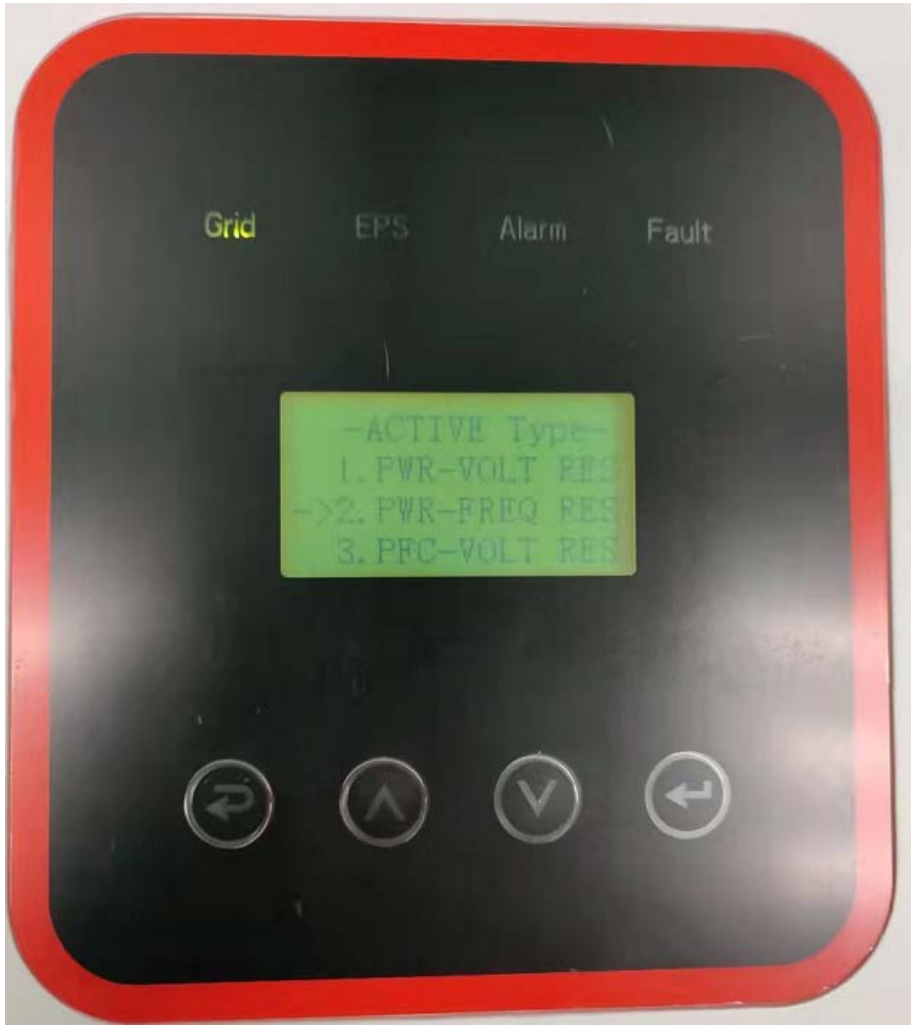
3.5.9 Click ACTIVE REP to enter the ACTIVE Type interface, there are 7 items in total.

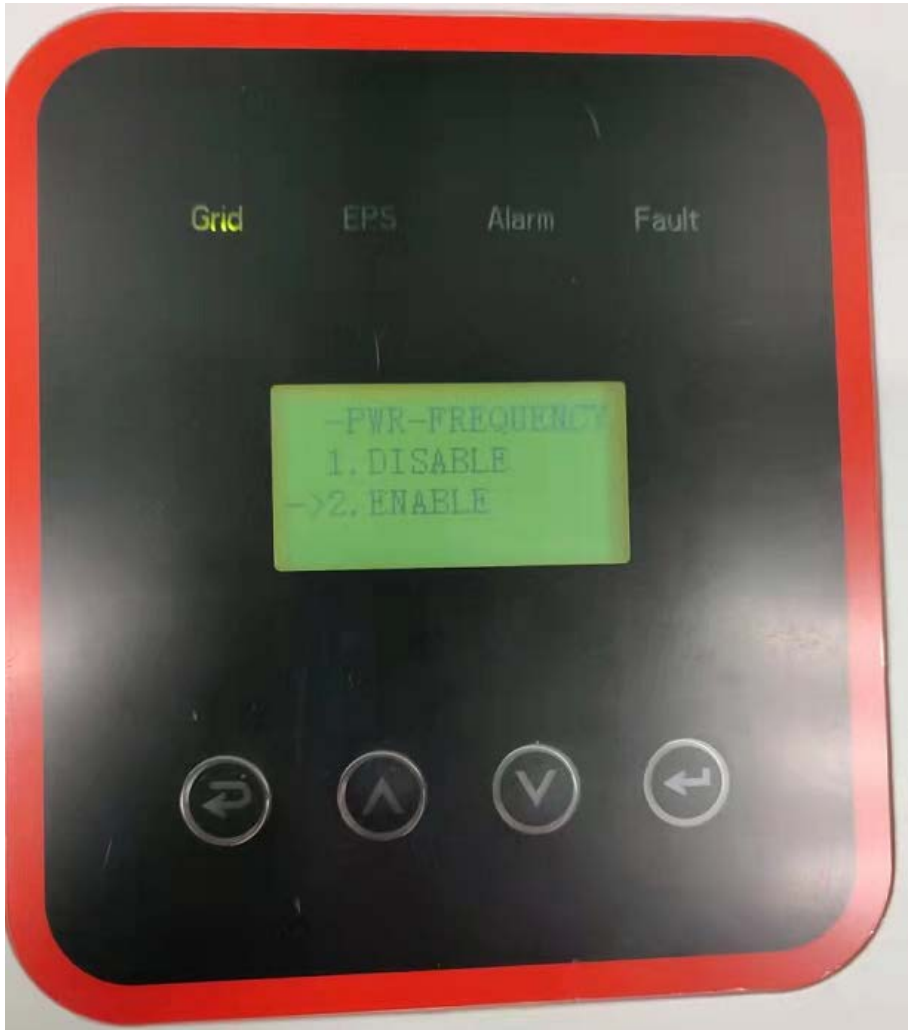


3.5.9.1 Click PWR-VOLT RES to enter the PWR-VOLTAGE interface.

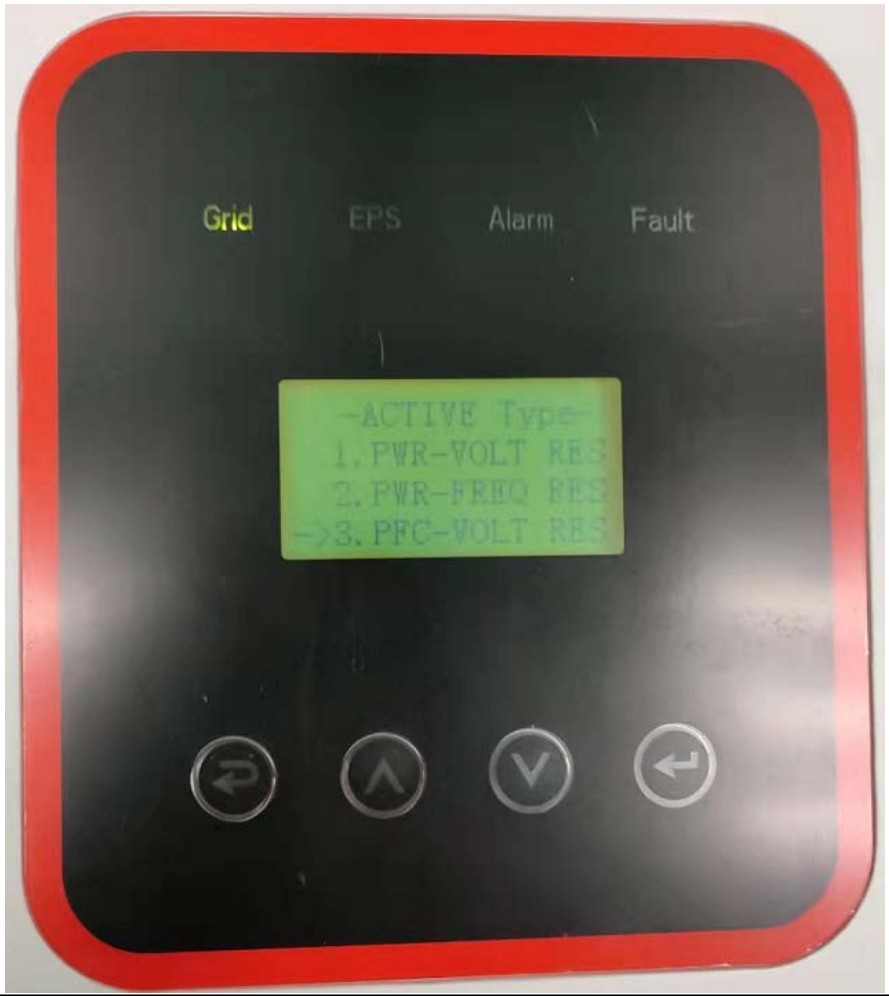


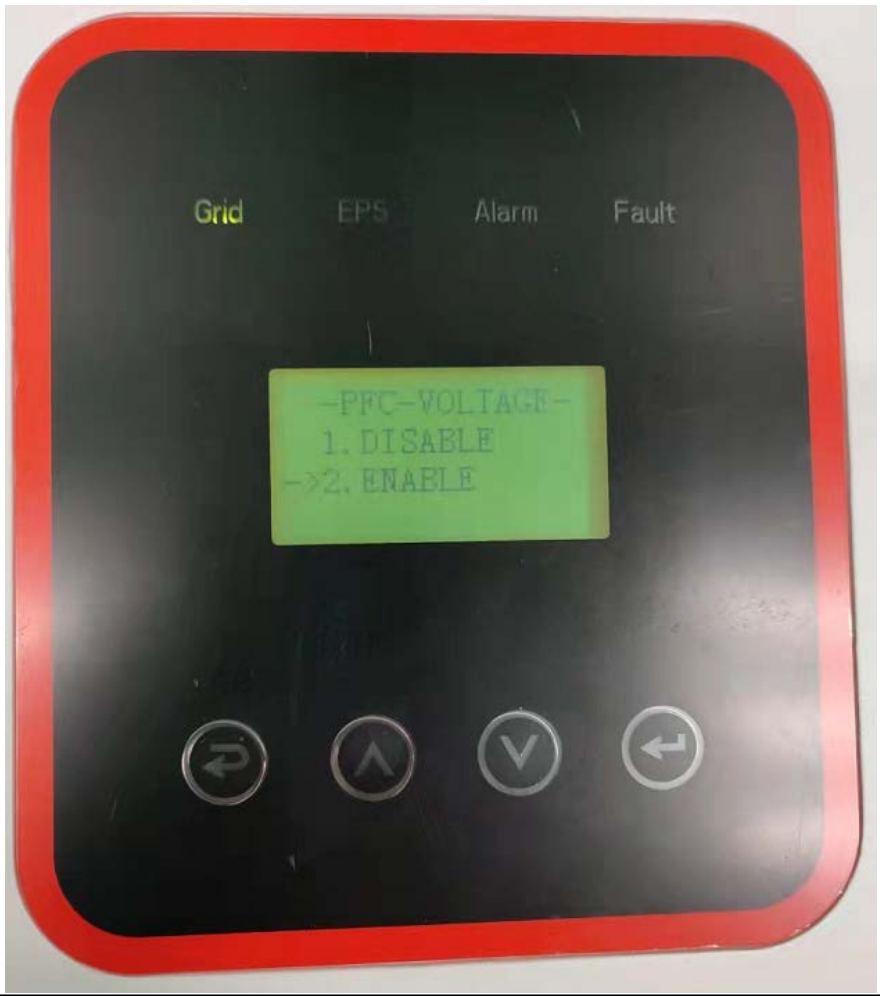
3.5.9.2 Click PWR-FREQ RES to enter the PWR-FREQUENCY interface.





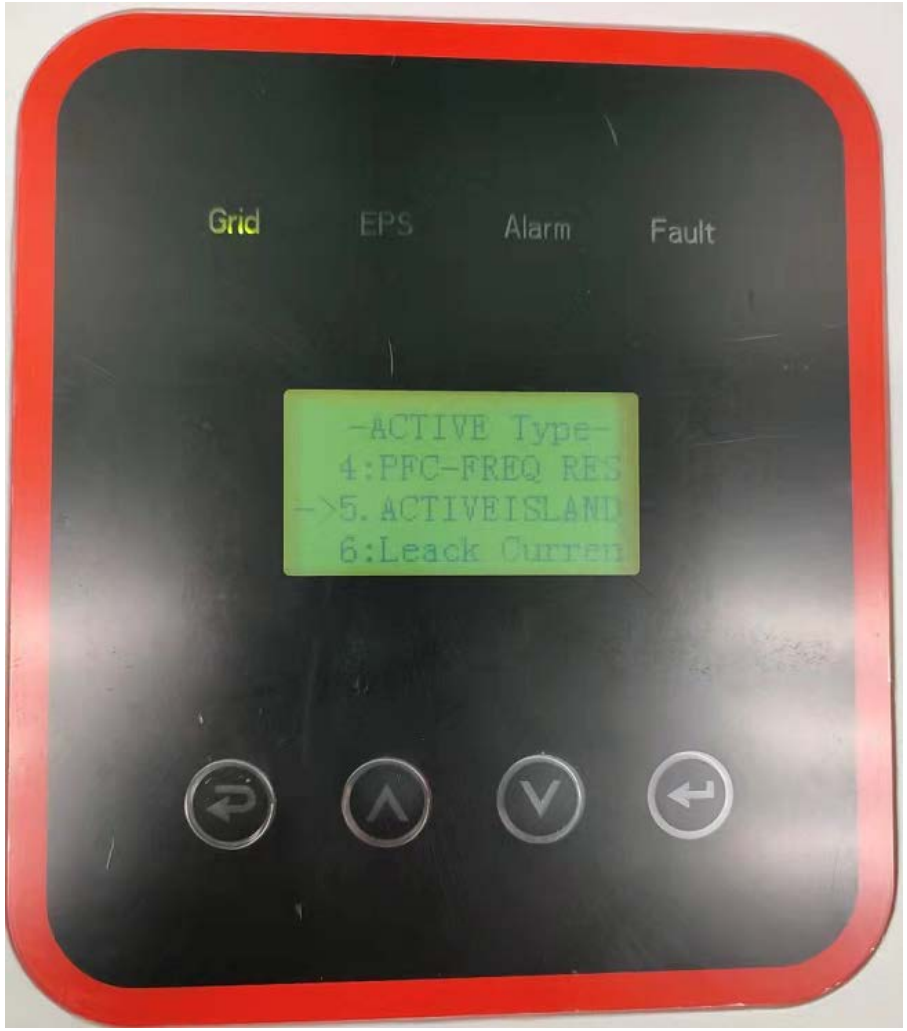
3.5.9.3 Click PFC-VOLT RES to enter the PFC-VOLTAGE interface.

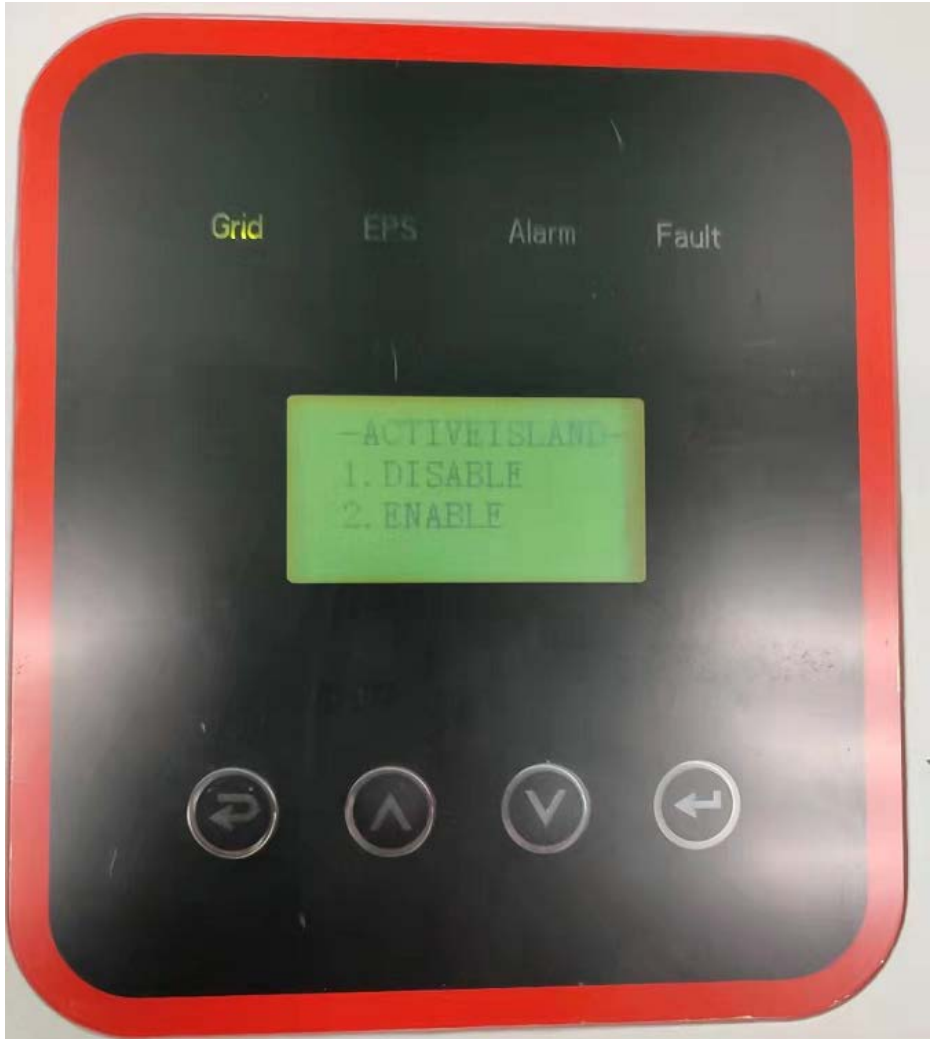




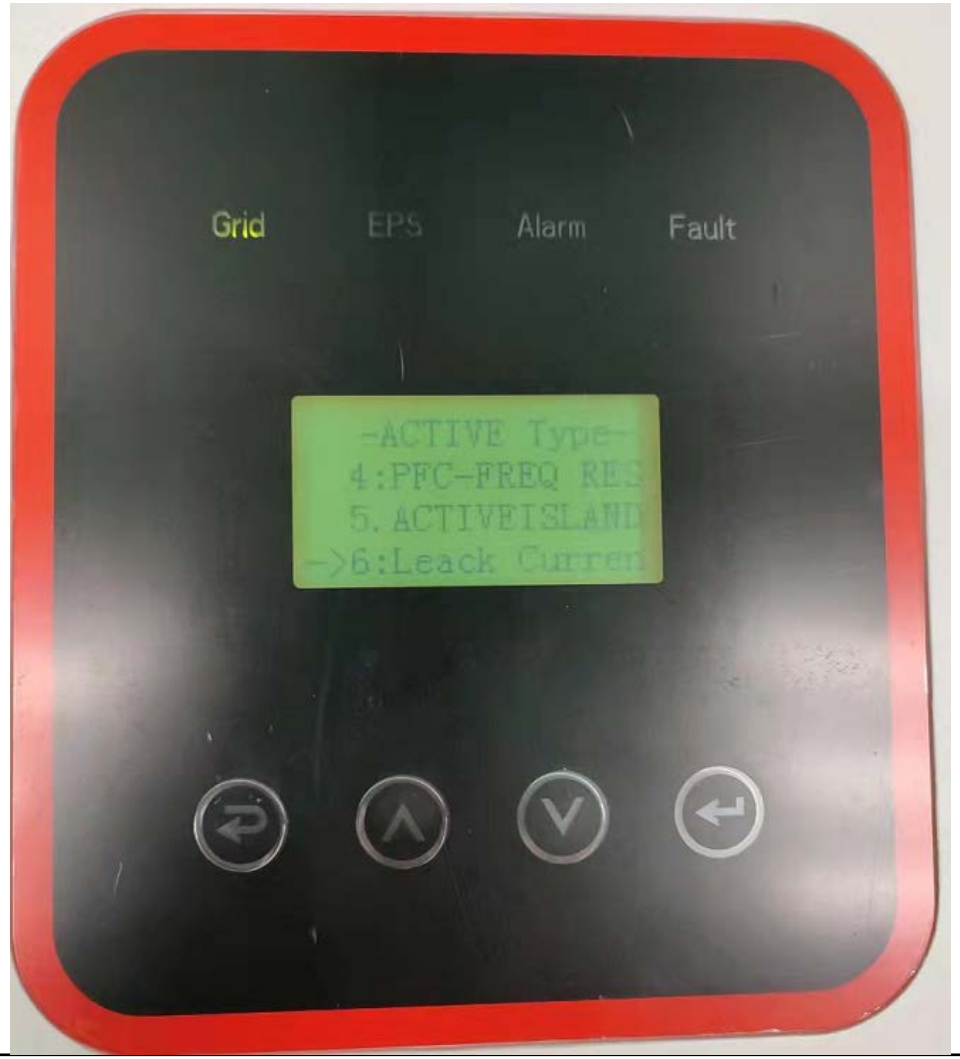
3.5.9.4 Click PFC-FREQT RES to enter the PFC-FREQUENCY interface.

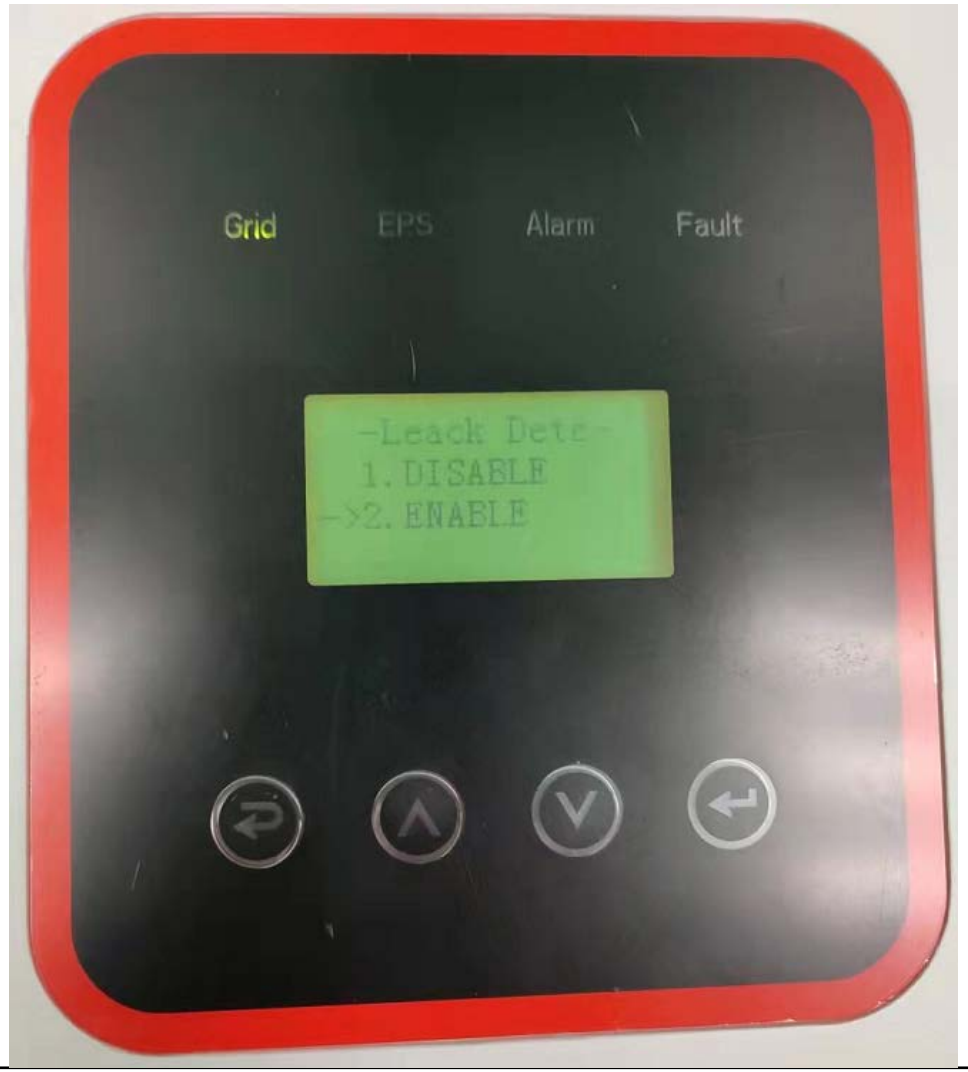
3.5.9.5 Click ACTIVEISLAND to enter the ACTIVEISLAND interface.



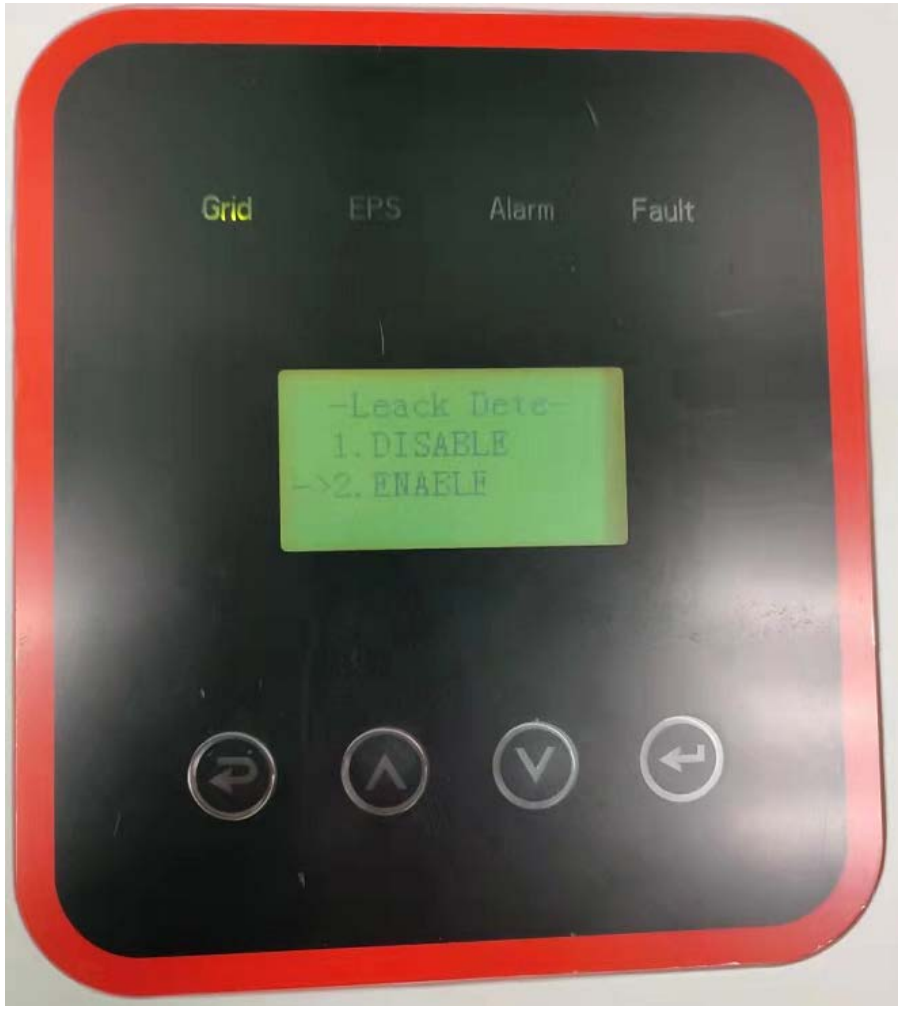


3.5.9.6 Click Leack Curren to enter the Leack Dete interface.

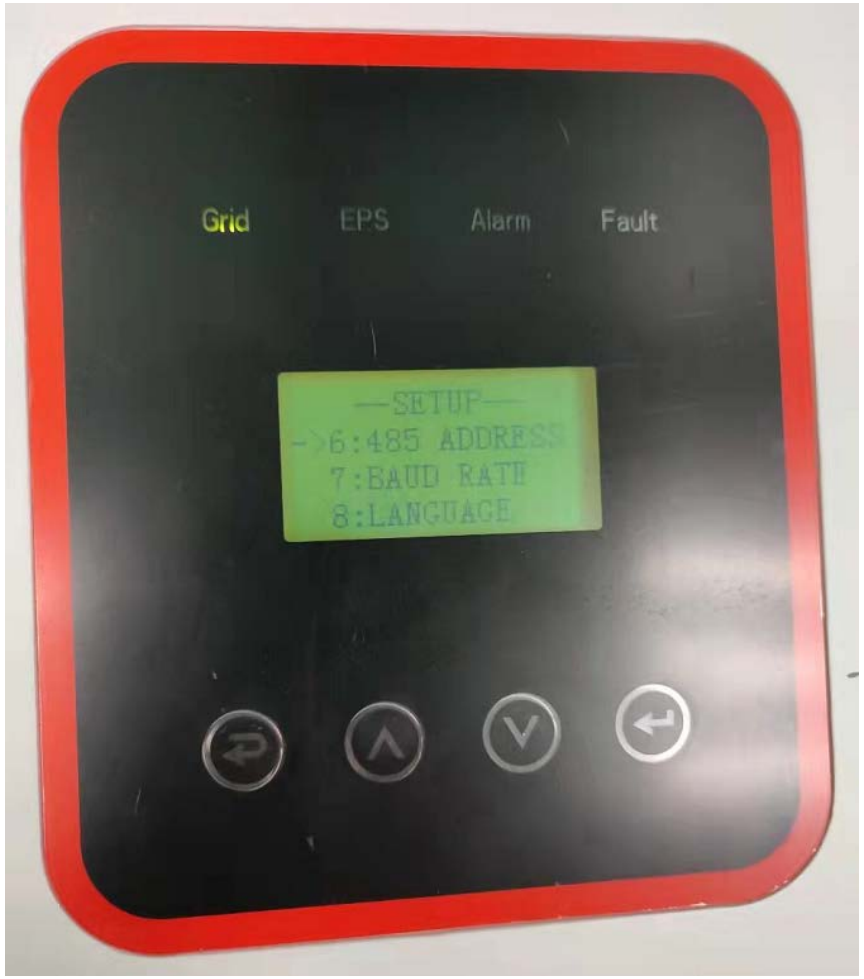




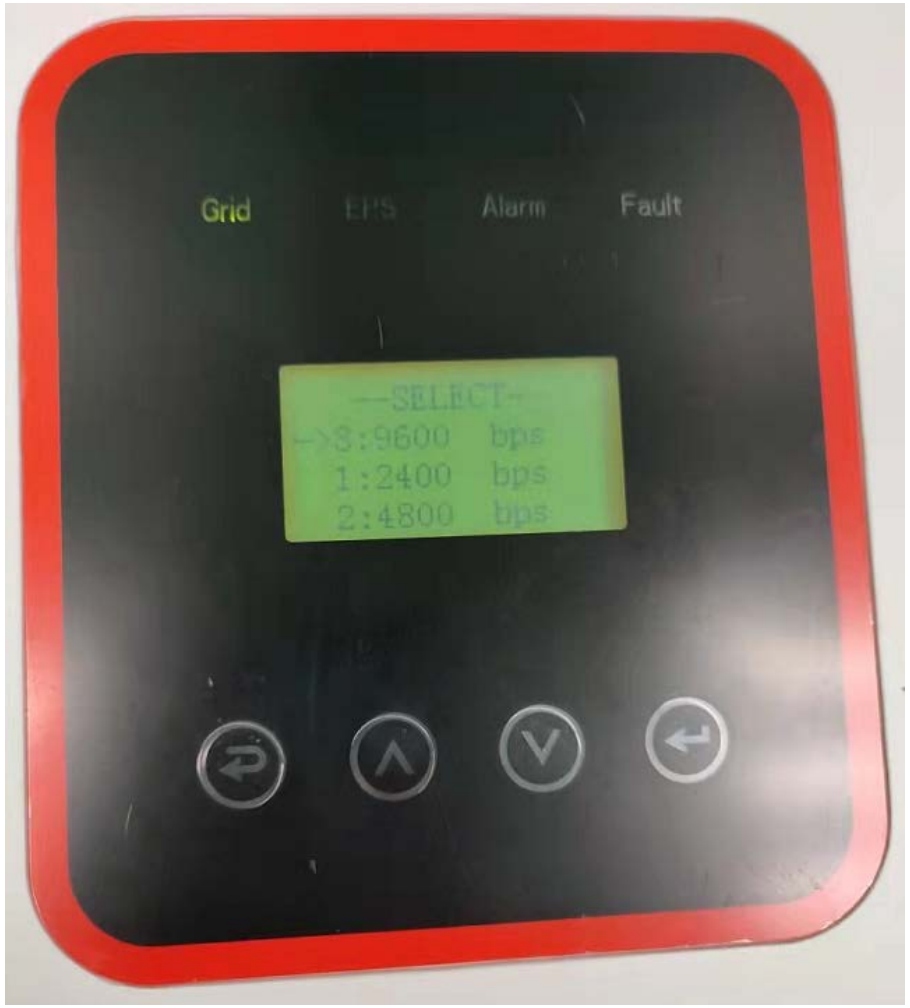
3.5.9.7 Click Insulation to enter the Leack Dete interface.



3.6Click 485 ADDRESS to enter the 485 ADDRESS interface, enter the number 1.



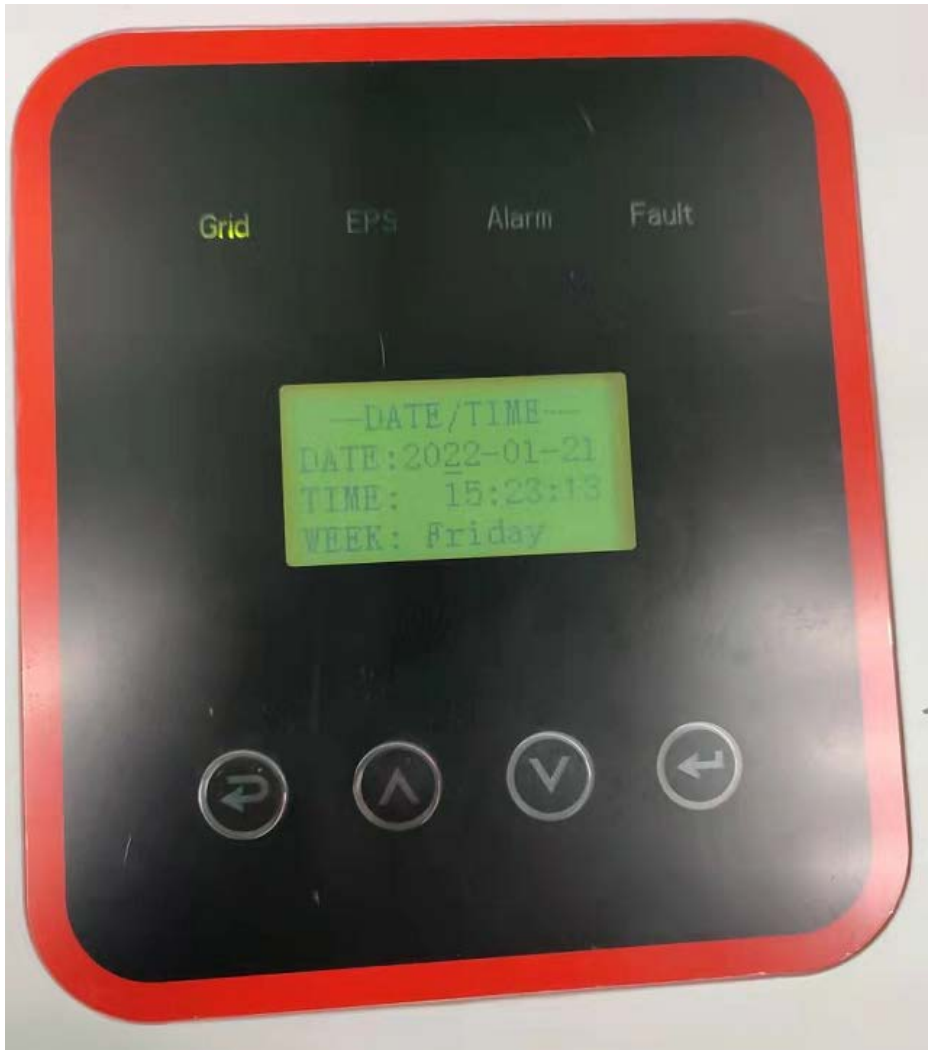
3.7Click BAUD RATE to enter the SELECT interface, select the baud rate 9600.



3.8Click LANGUAGE to enter the LANGUAGE interface and select the language

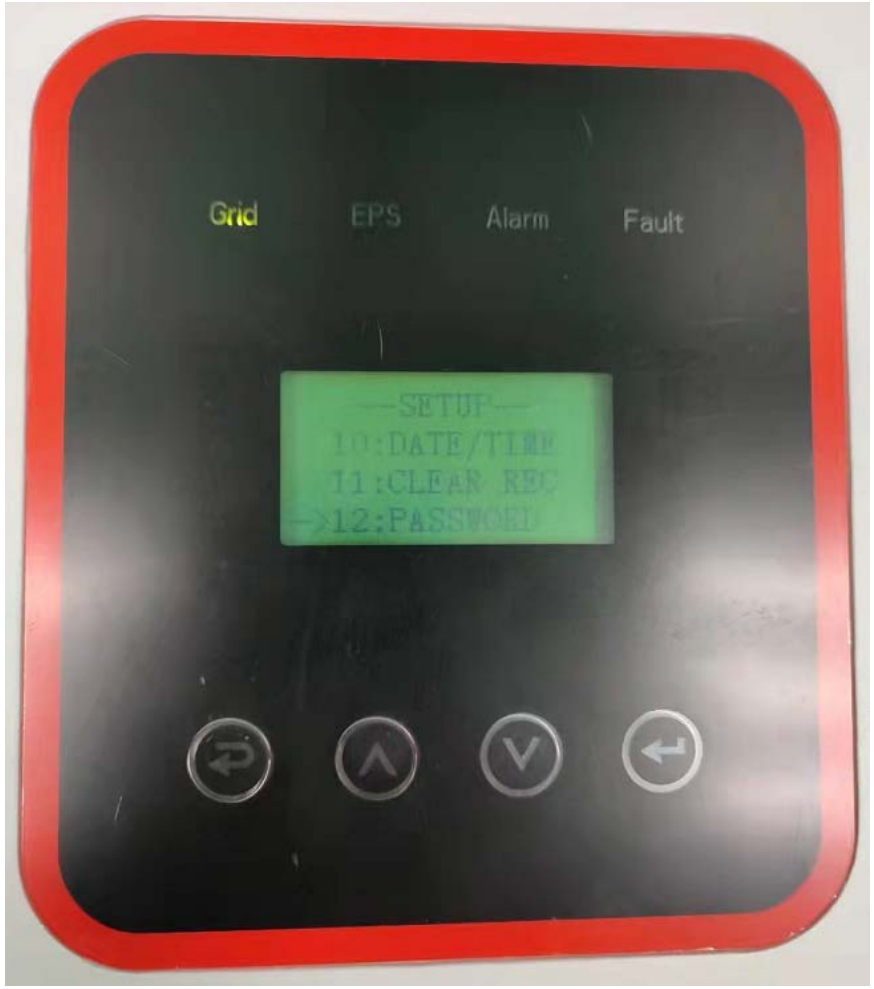
3.9Click BACKLIGHT to enter the LIGHT TIME interface and enter the value.

3.10Click DATE/TIME to enter the DATE/TIME interface and modify the date and time.

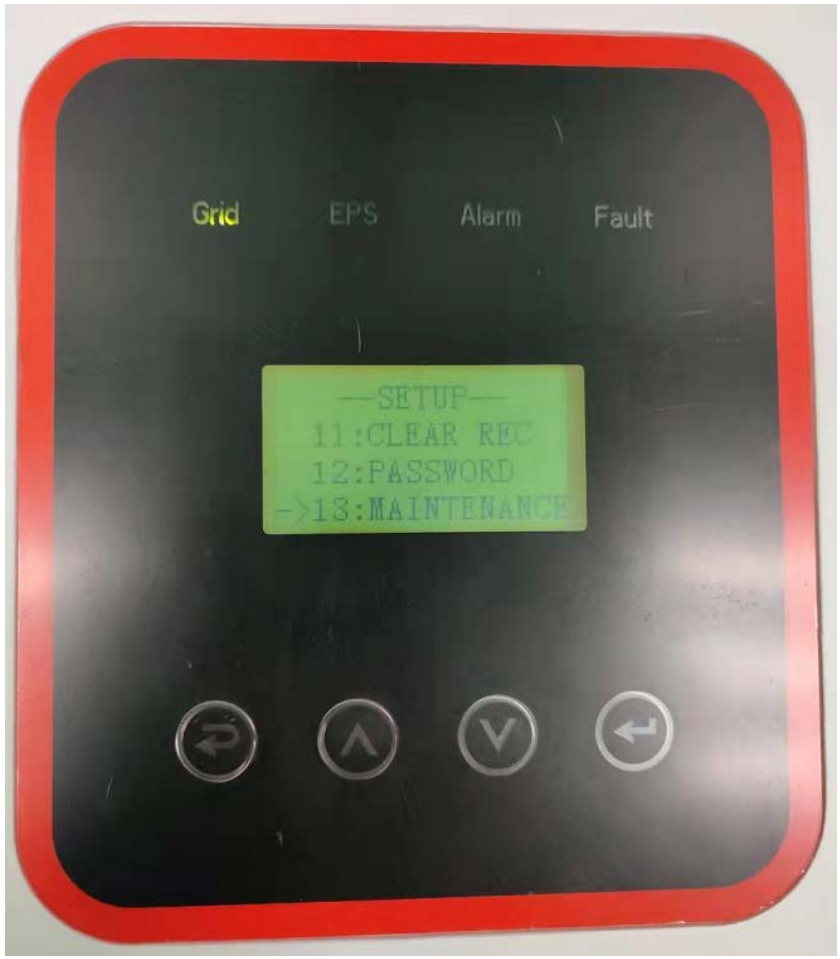


3.11Click CLEAR REC to enter the DEL REC interface.

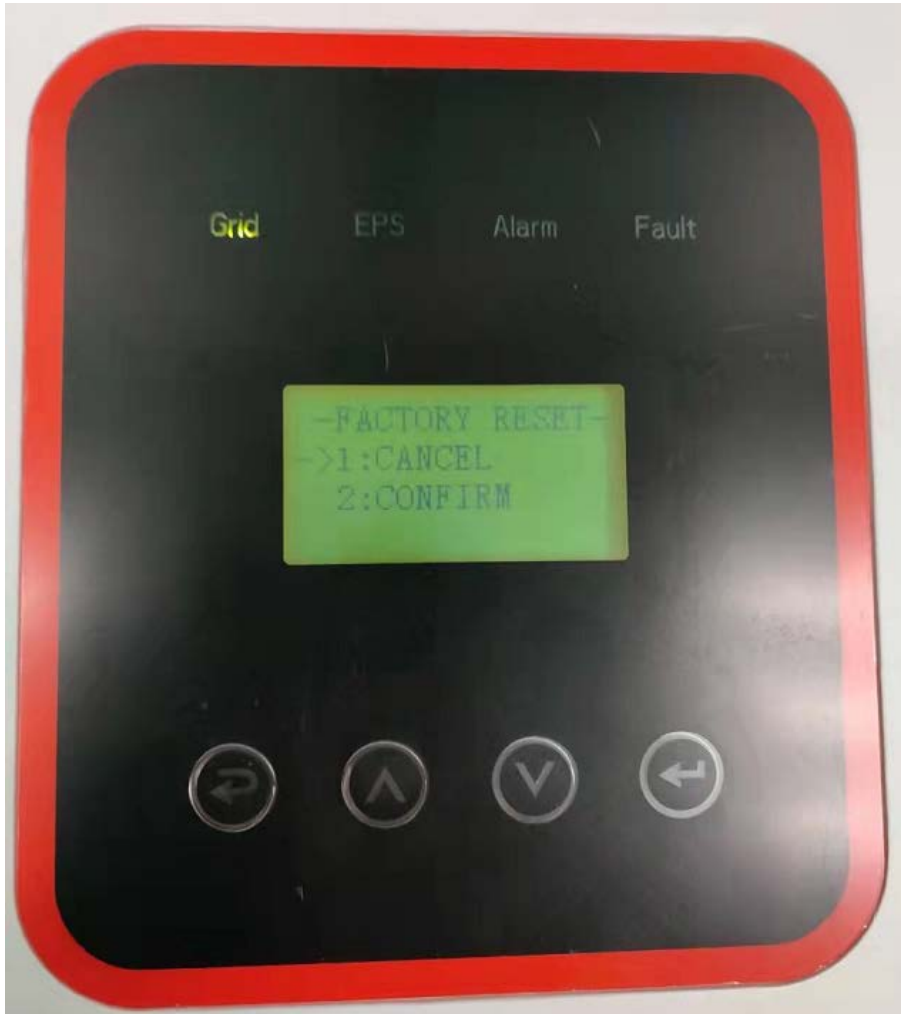
3.12Click PASSWORD to enter the PASSWORD interface. Change the password, the original password is 00000



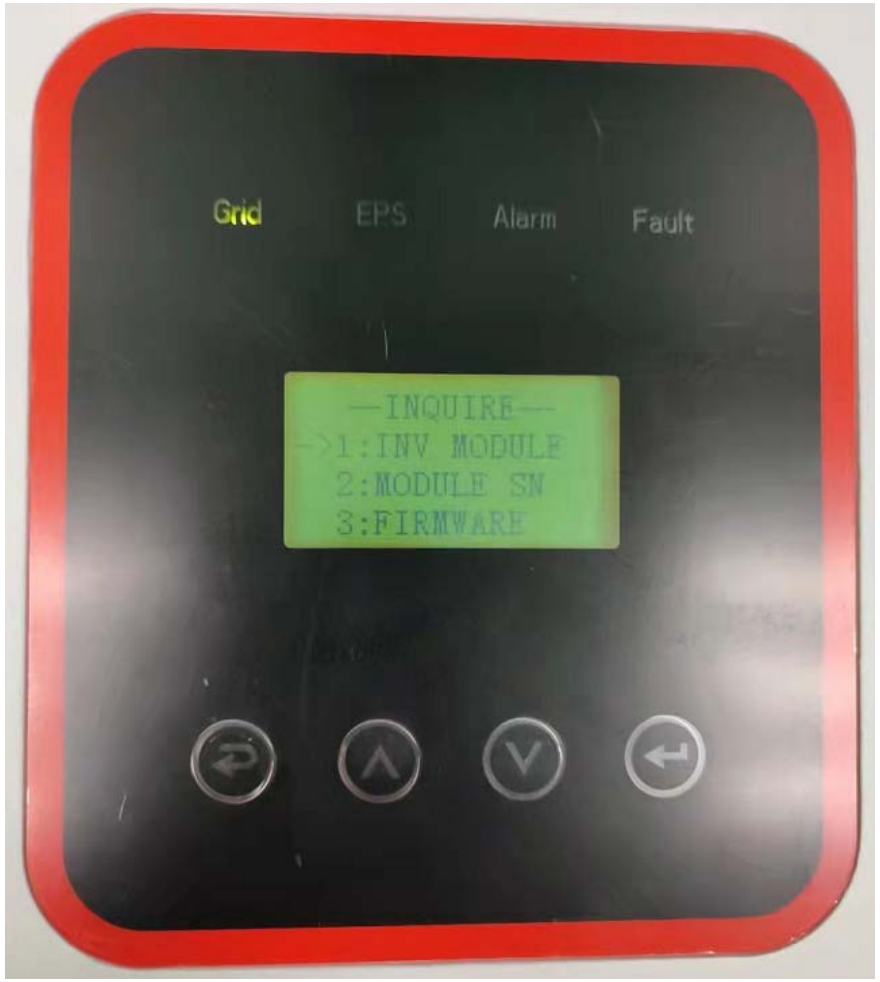
3.13Click MAINTENANCE to enter the PASSWORD interface.



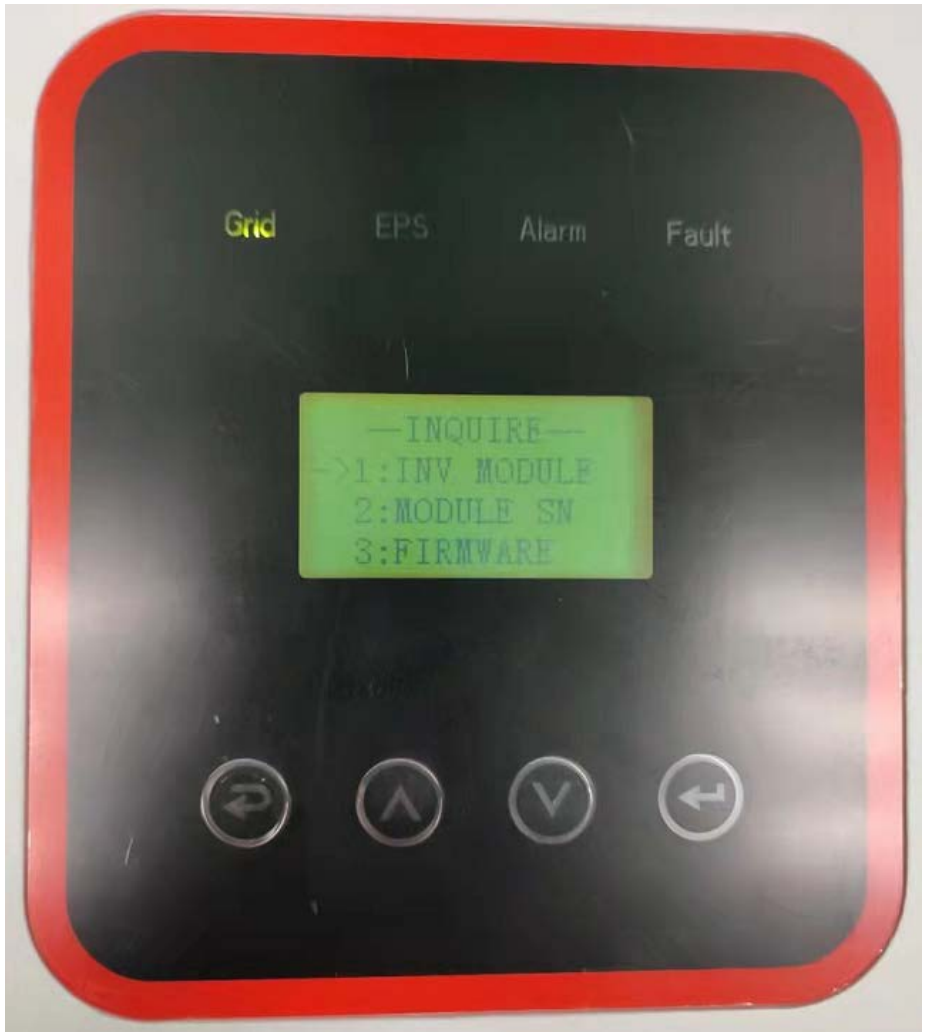
3.14Click FCTRY RESET to enter the FACTORY RESET interface



4.Click INQUIRE to enter the INQUIRE interface.

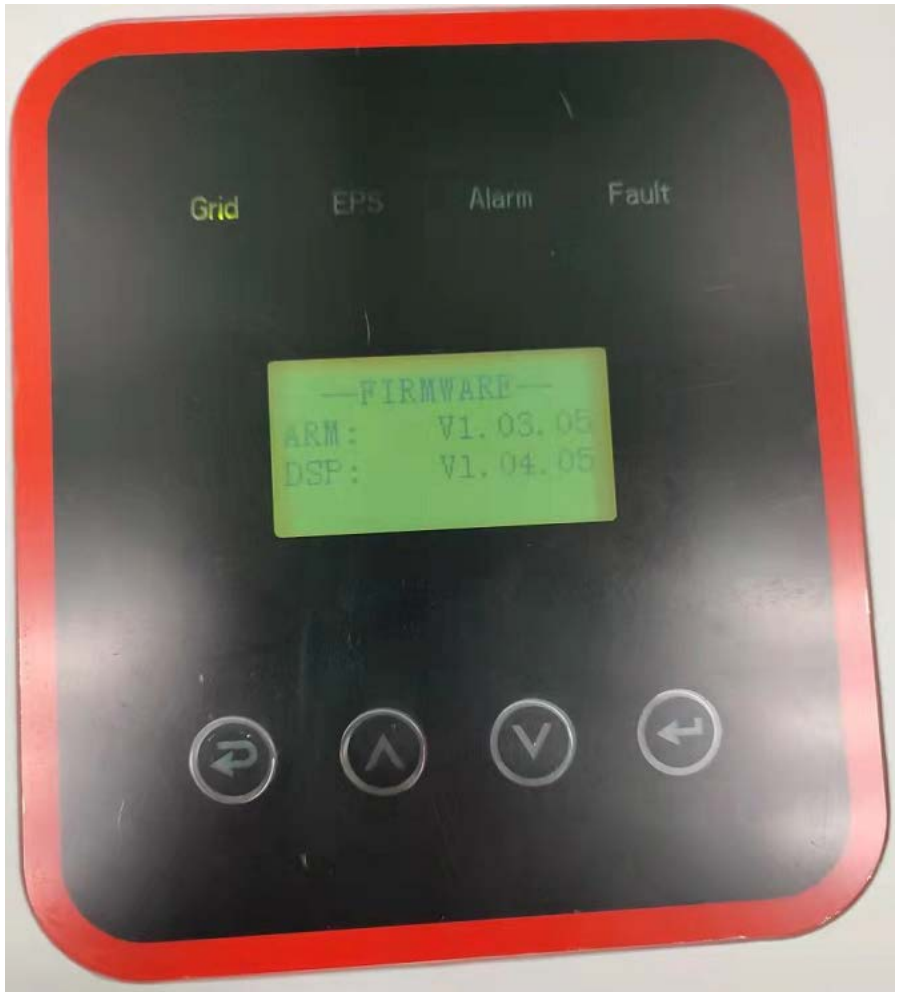


4.1Click INV MODULE to enter the MODEL interface.

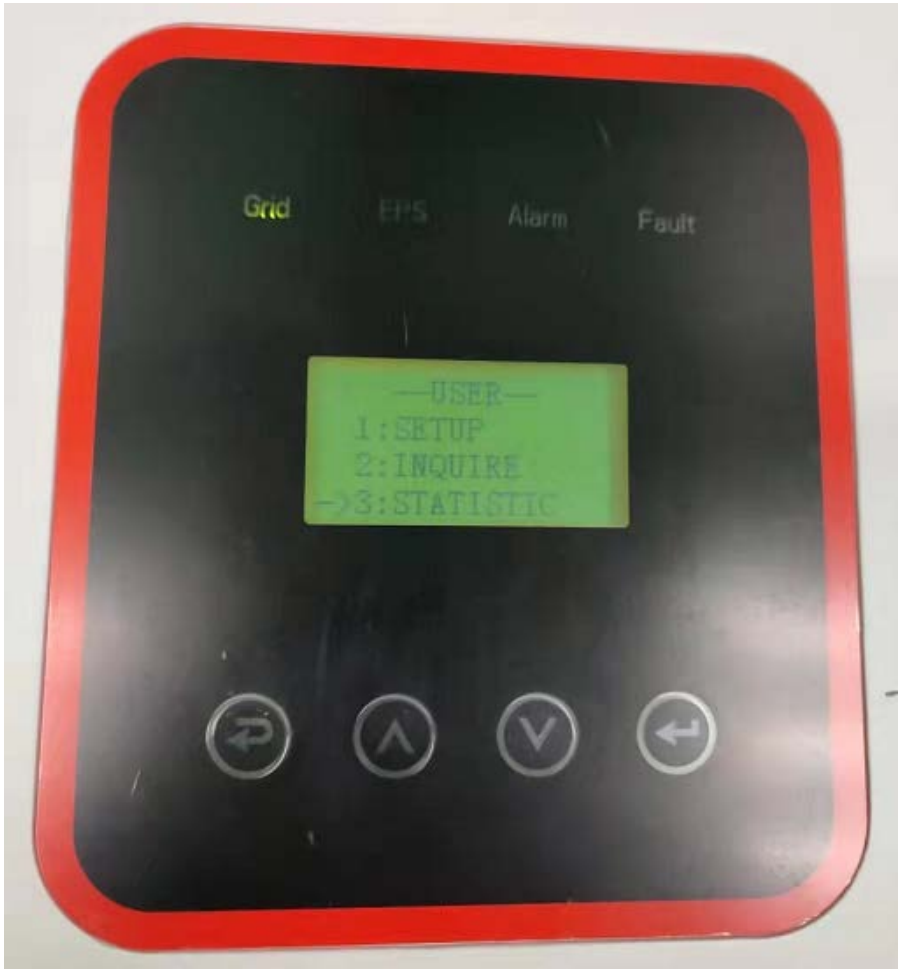


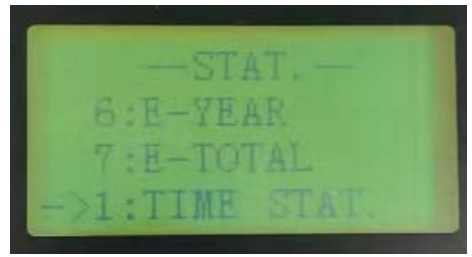
4.2Click on MODULE SN to enter the S/N interface.

4.3Click FIRMWARE to enter the FIRMWARE interface.



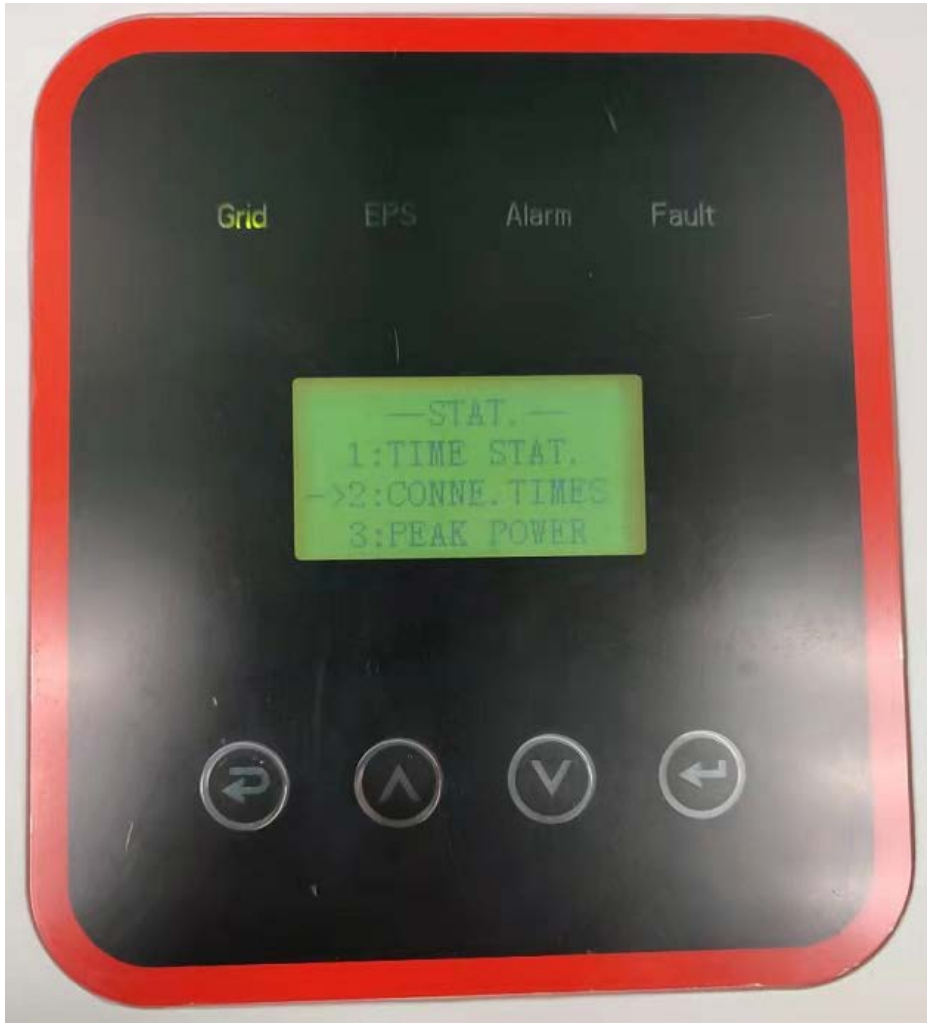
5.Click STATISTTC to enter the STAT interface, there are 7 items in total

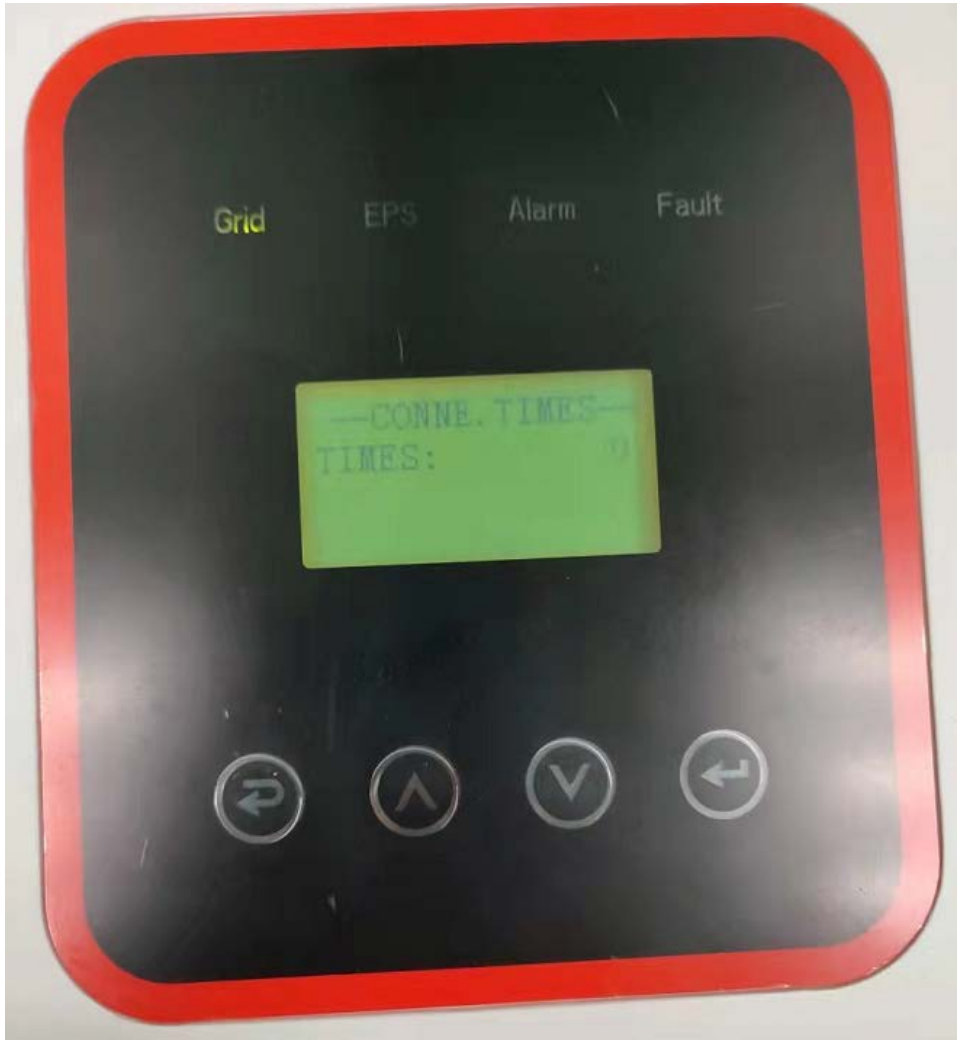




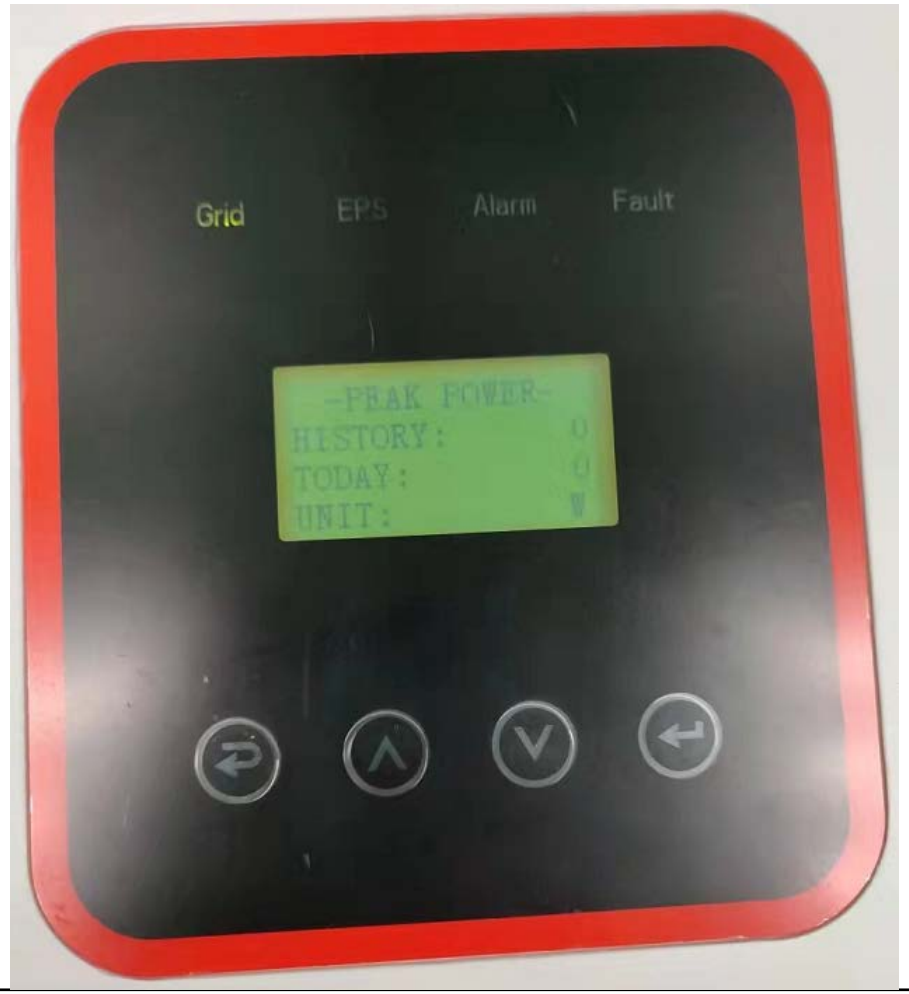
5.1Click TIME STAT to enter the TIME interface

5.2Click CONNE TIMES to enter CONNE TIMES interface

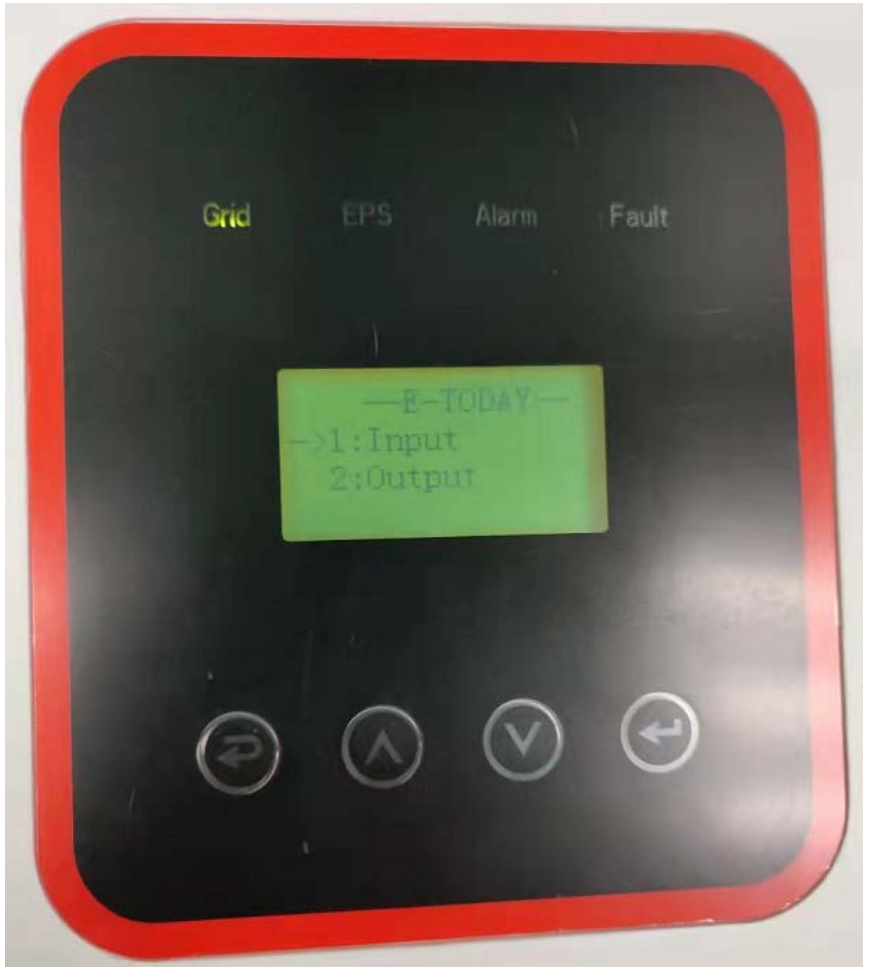




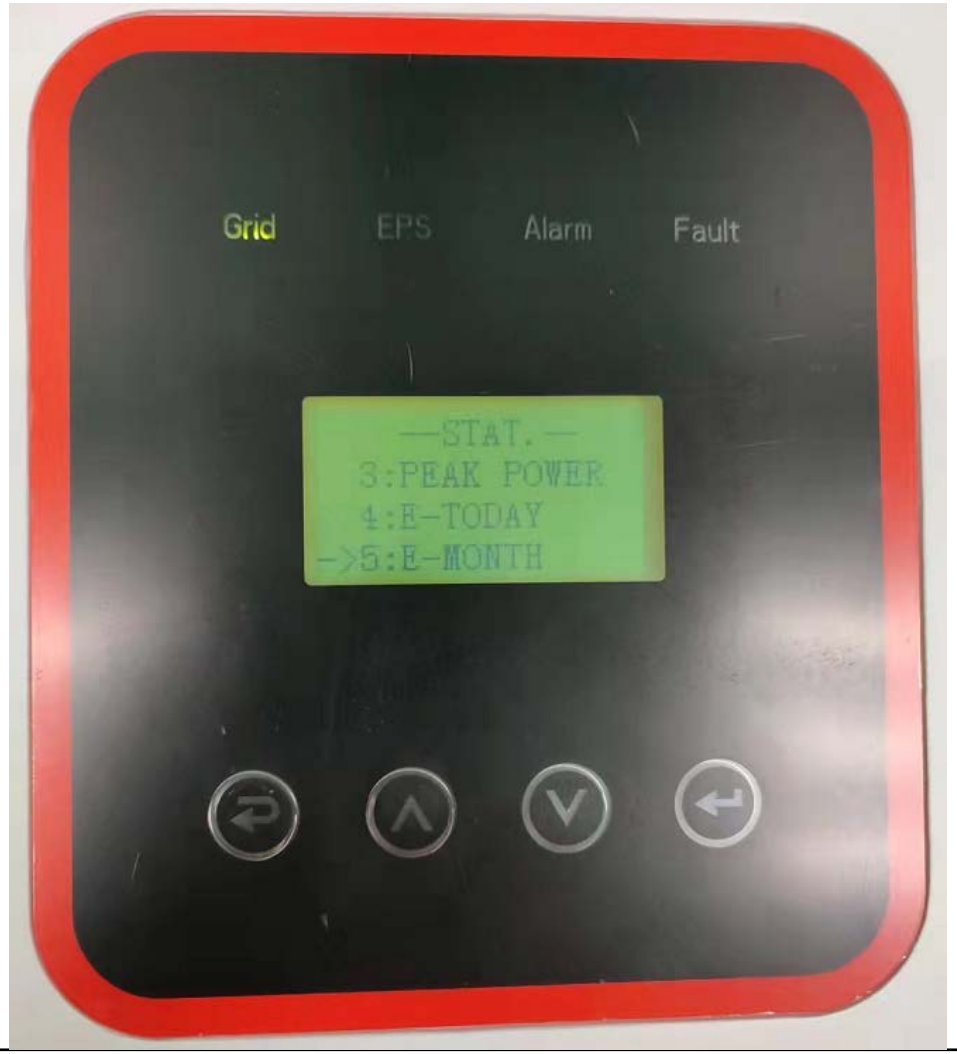
5.3Click PEAK POWER to enter the PEAK POWER interface



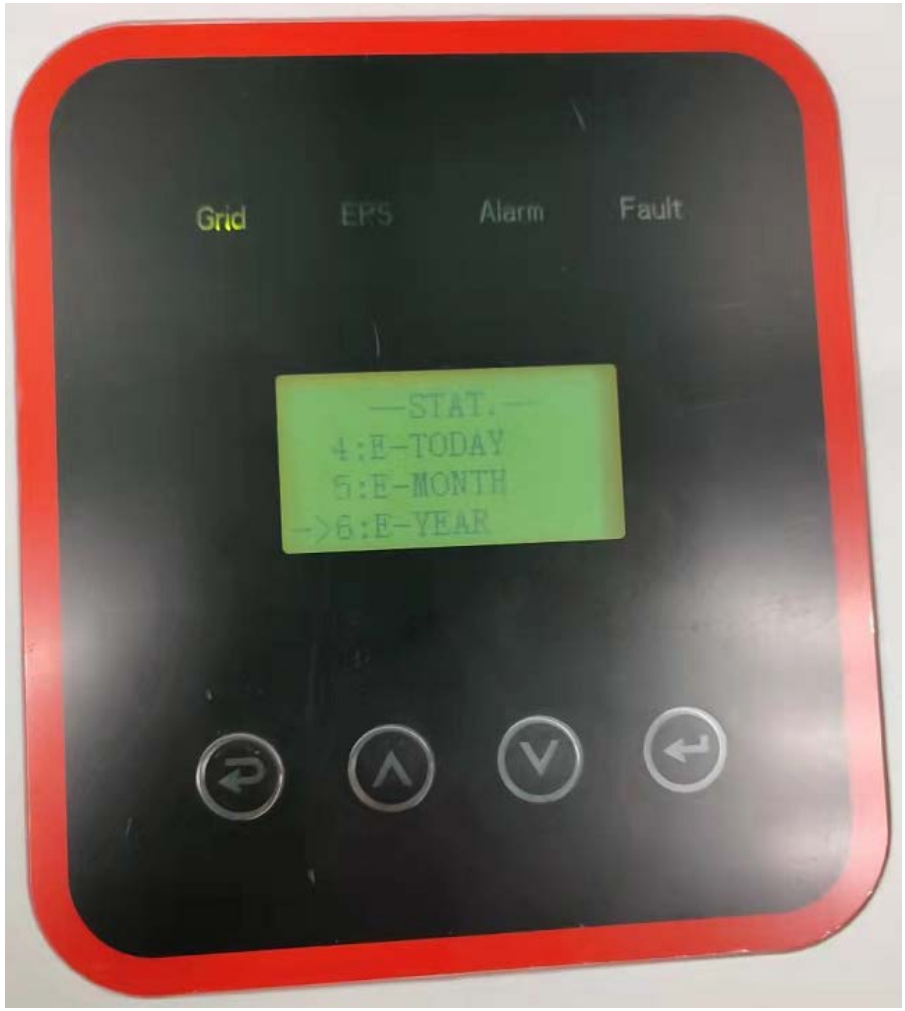
5.4Click E-TODAY to enter the E-TODAY interface



5.5Click E-MONTH to enter the E-Month interface.



5.6Click E-YEAR to enter the E-Year interface.



5.7Click E-TOTAL to enter the E-Total interface.