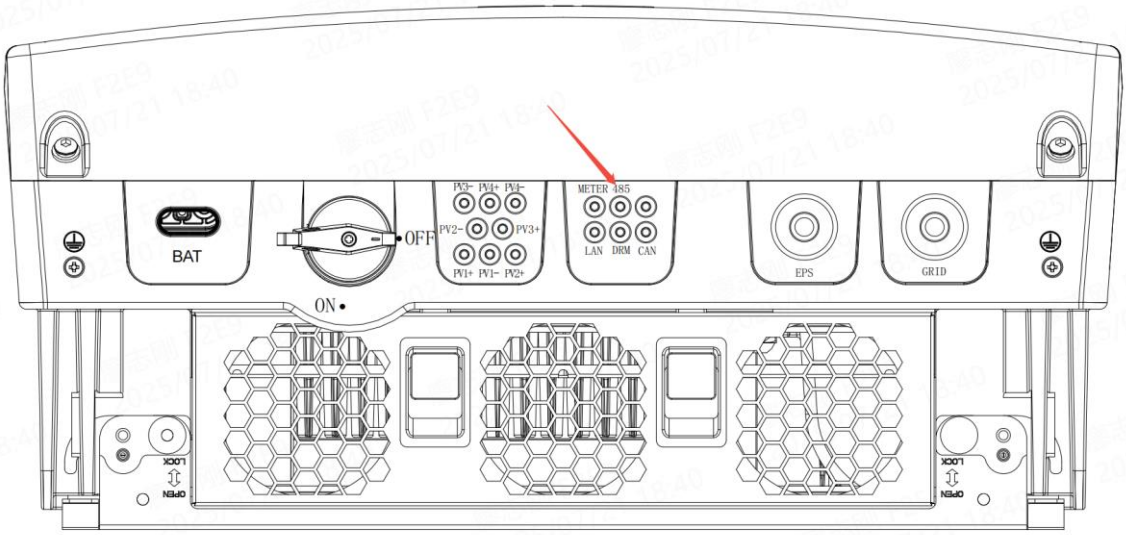
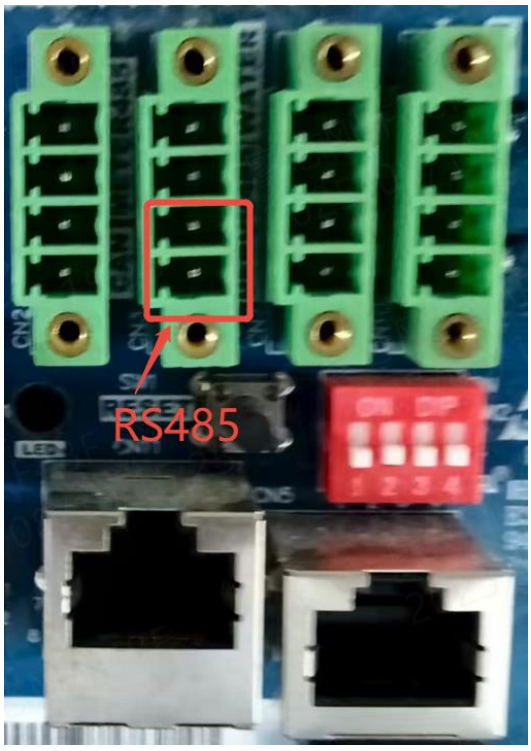
MonitorBus User Manual

Contents

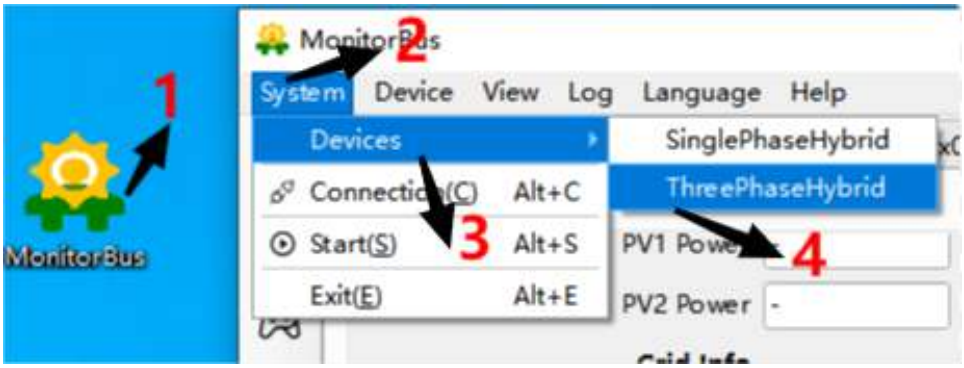
1. Setting the upper computer before use

1）Before using the upper computer, RS485 serial port is used to connect the LM485.





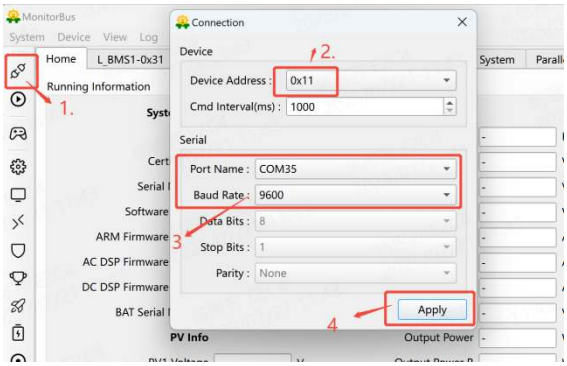
2）Opening the upper computer and select the type of inverter.



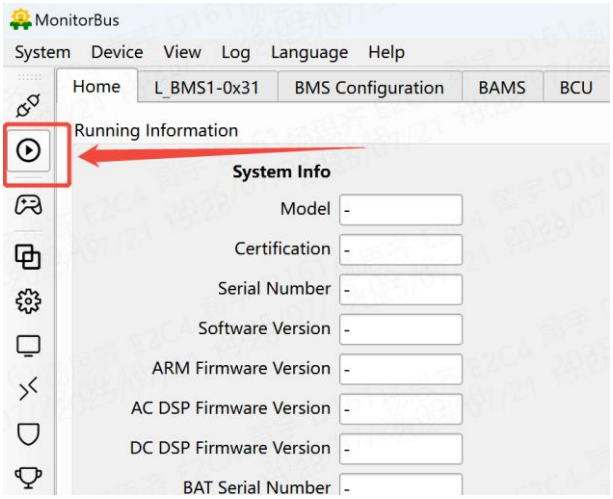
3）Turning on the inverter power

4）Selecting the port to connect

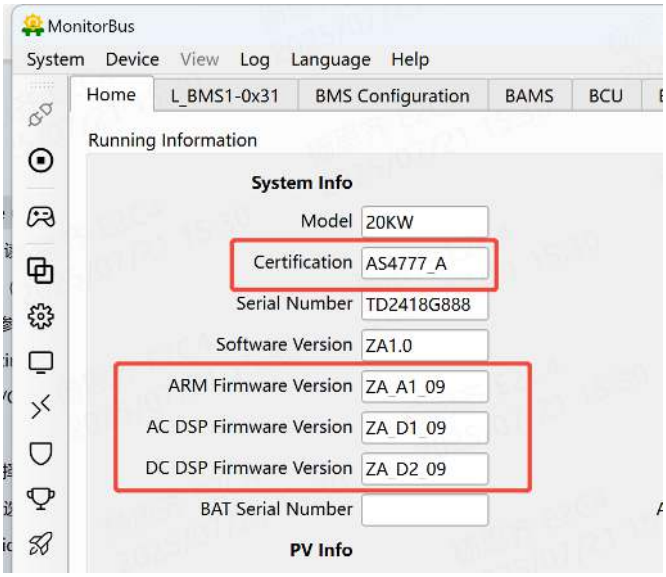
Select the device communication address 0x11, choose the Com port that needs to be connected, and select RS485 communication baud rate 9600



5）Connecting



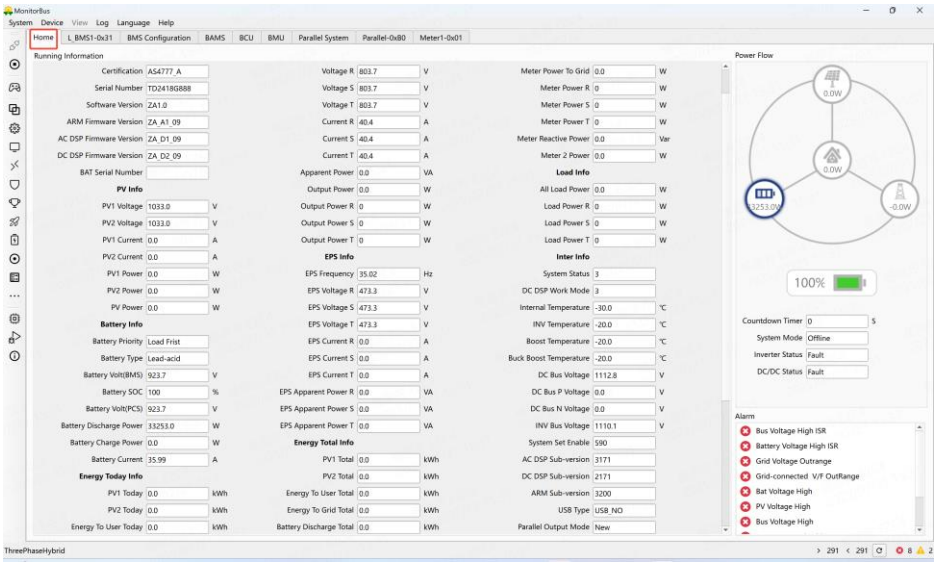
6）Waiting for few seconds,you will see messages appear in the system info



2. Reading the inverter information

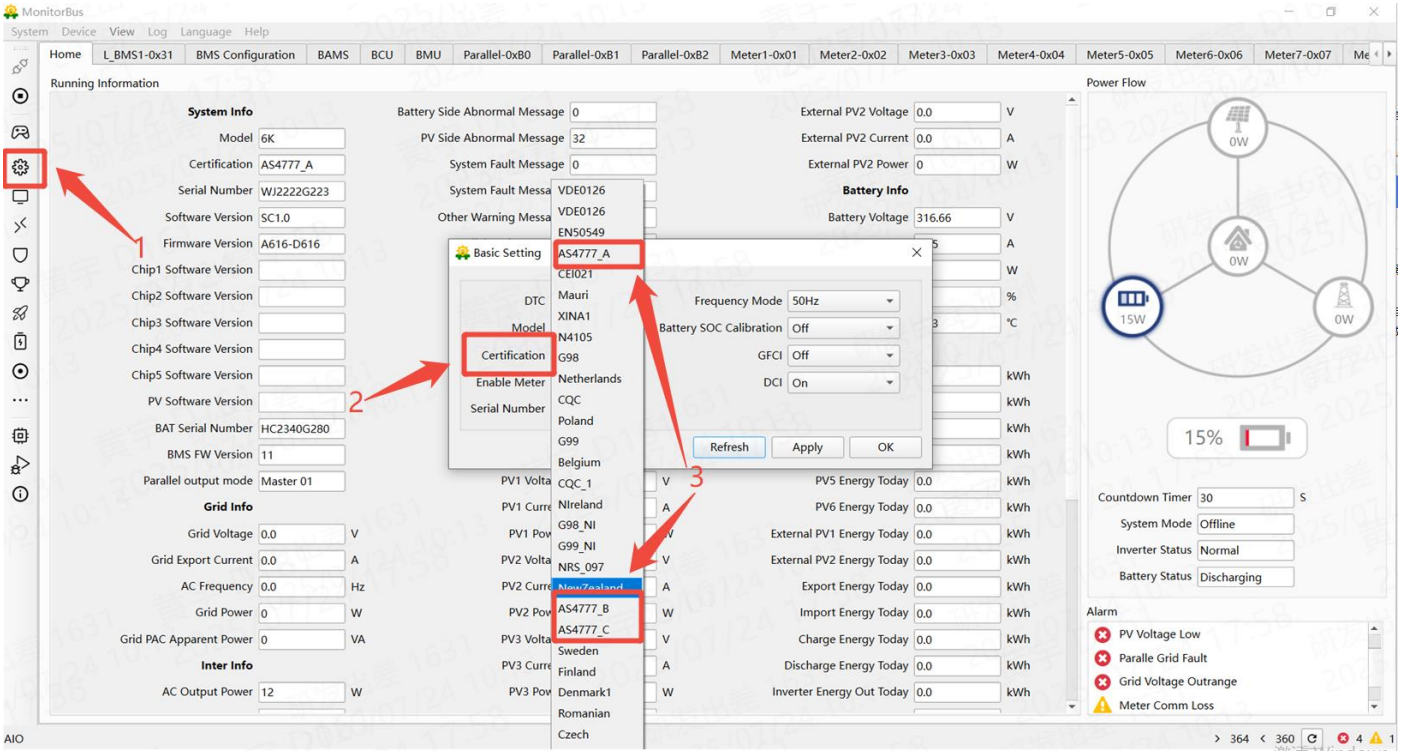
You can read the inverter information in this home interface.

For example: Power grid information , battery information , PV information , load information and fault message

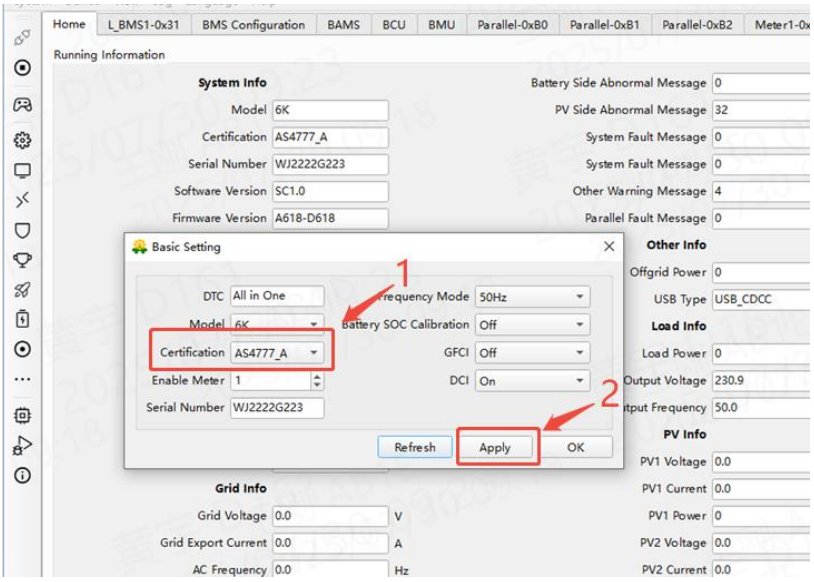


3. Country Grid Code/Region setting

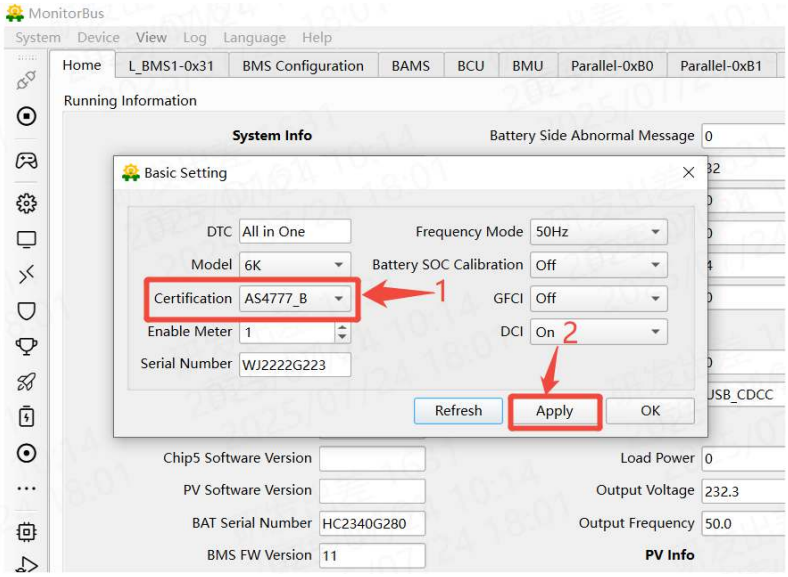
Clicking on the "Combine Setting" interface allows you to select and switch to the Australian region.



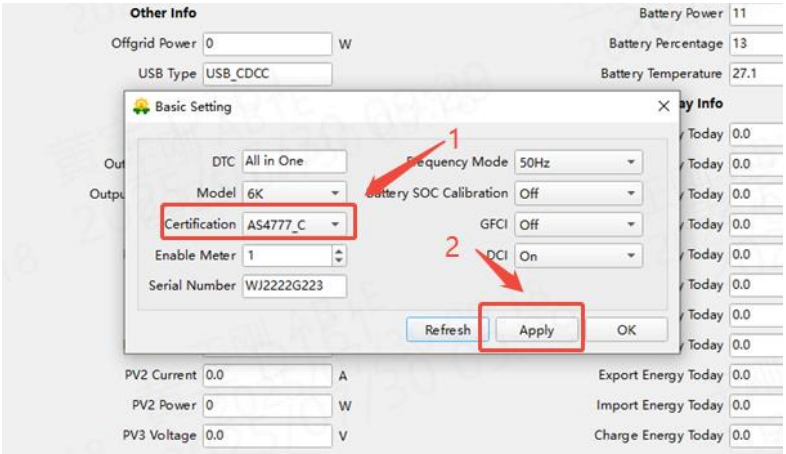
(1) AS4777_A



(2) AS4777_B



(3) AS4777_C

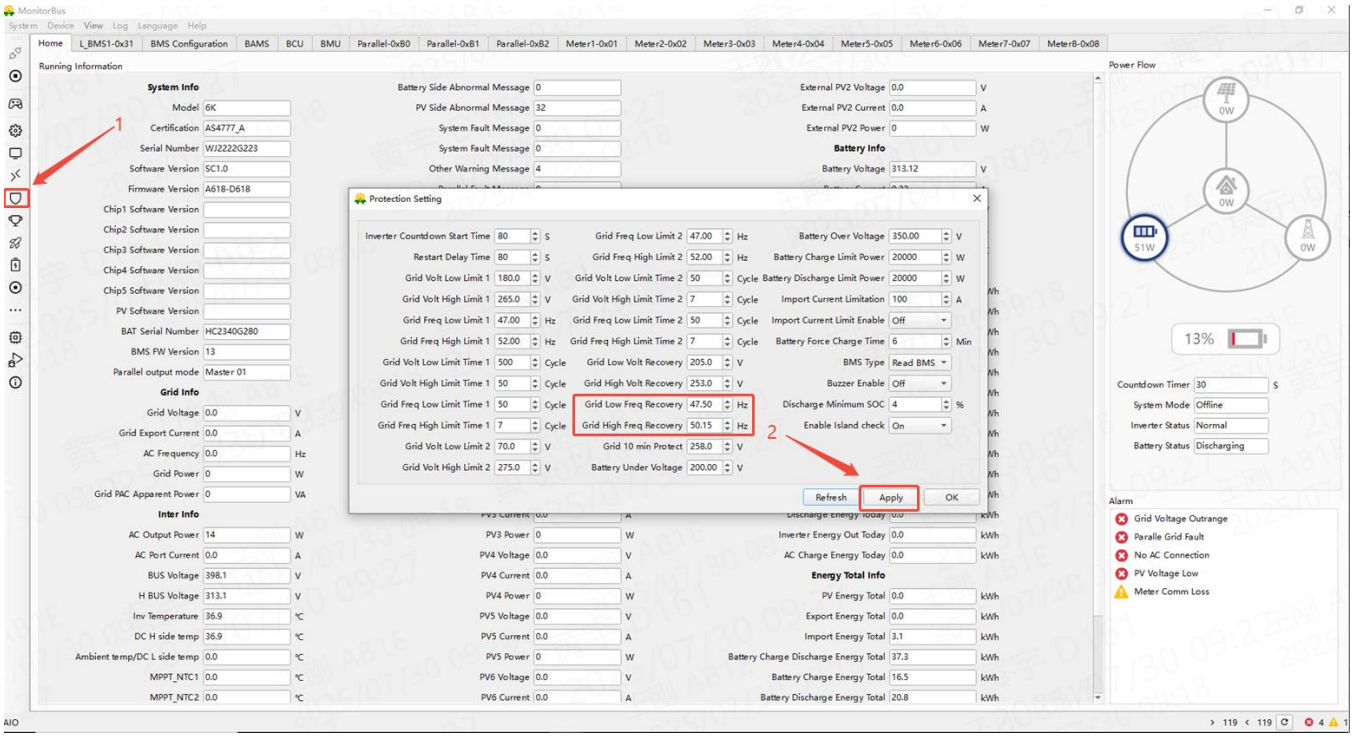


4. Grid Protection setting

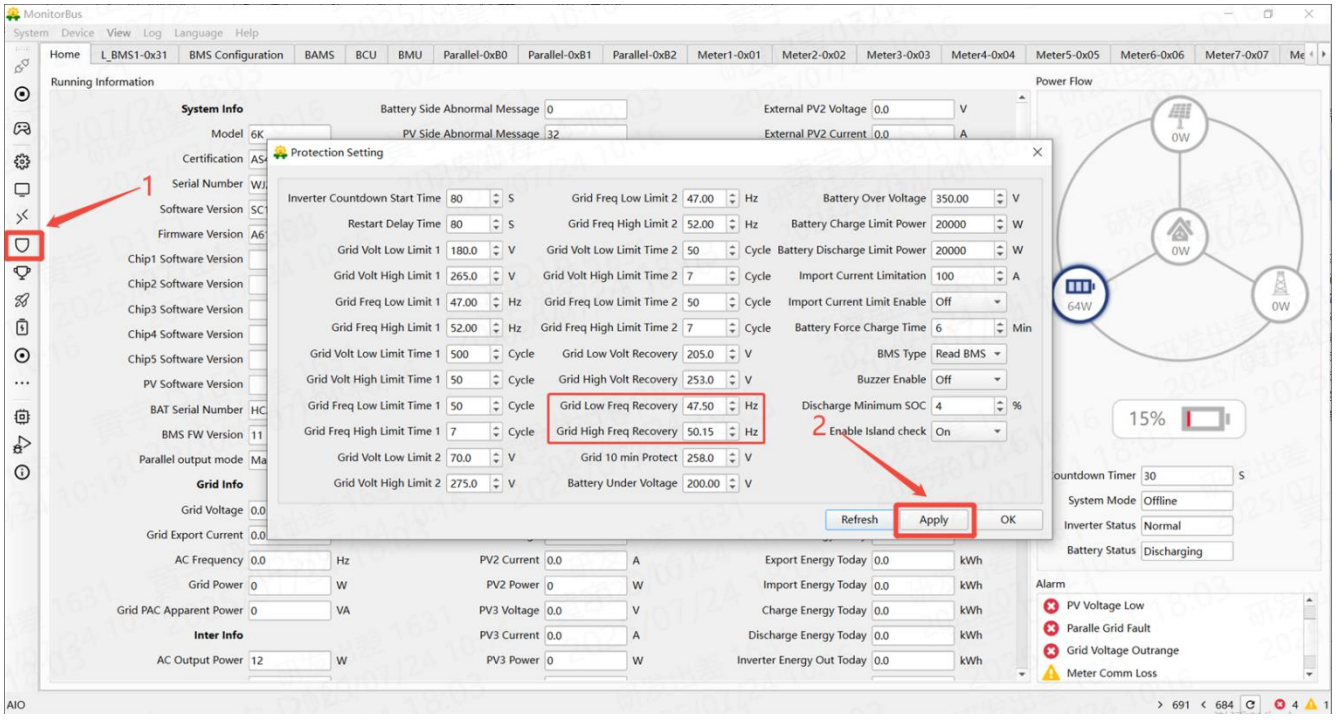
Inverter Grid Protection Parameter Setting Module:

Protection Setting Inverter Grid Protection Parameter Setting Module: Read the default values of the current grid protection parameters when powered on, including grid connection time, grid reconnection time, reconnection loading rate, grid voltage and frequency range limitations, overvoltage, undervoltage, underfrequency protection points, and protection time safety parameters，battery voltage range，battery power range， maximum current . These parameters can be set and modified on this module interface.

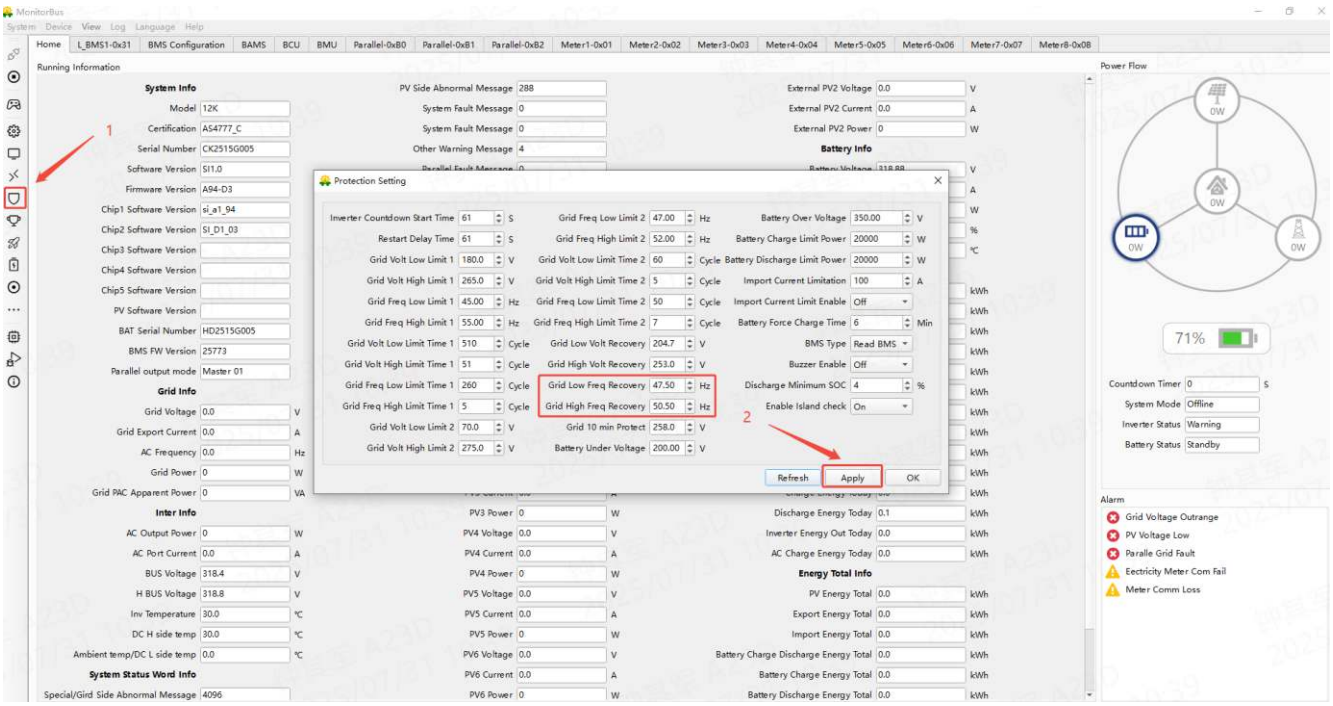
(1)AS4777_A：



(2)AS4777_B：



(3)AS4777_C



5. Power quality response modes setting

Specific Setting module parameter configuration including ：

(1) PF mode setting;

(2) High and low voltage enable

(3) Over-frequency load reduction slope

(4) QU Curve voltage point setting

(5) CEI QU curve setting

(6) CEI PF setting of curve voltage points

(7) Reduplication slope and grid connection slope

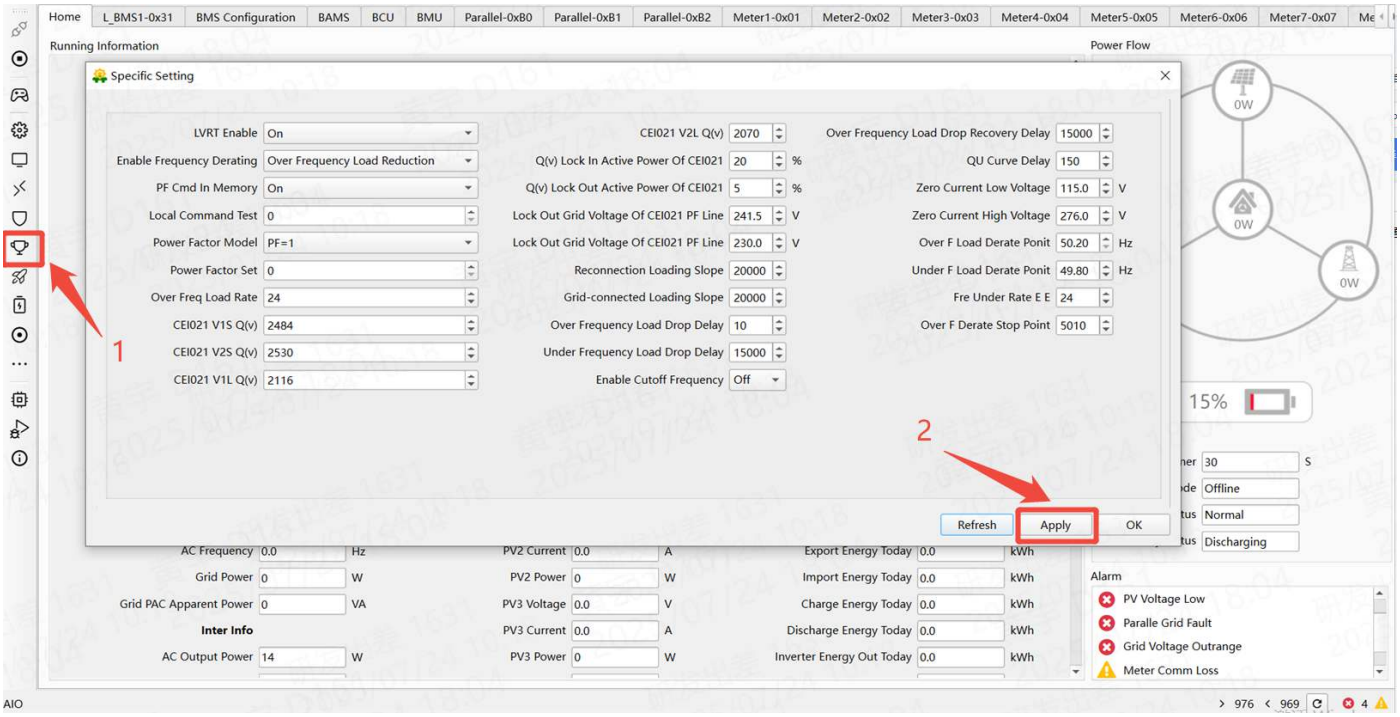
(8) Over-frequency load delay and under-frequency load delay

(9) Enable the cutoff frequency

(10) Over Frequency Load Drop Recovery Delay

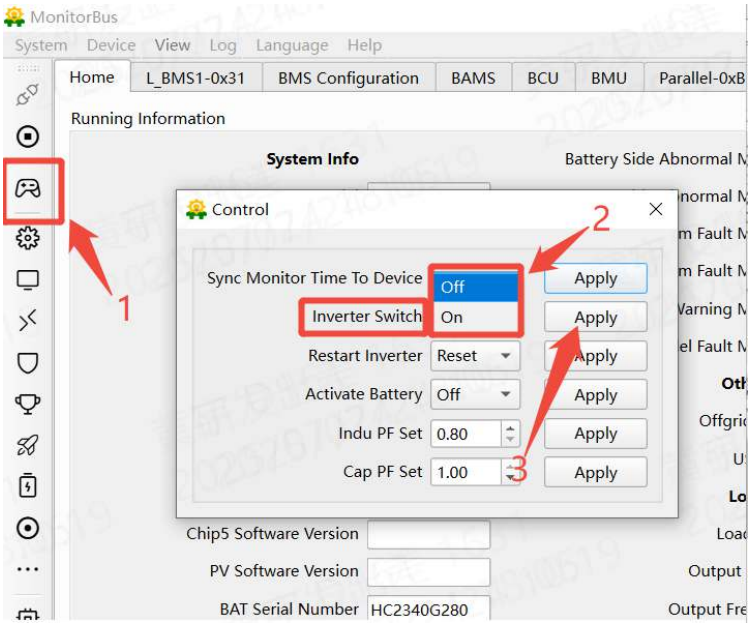
(11) Low and high voltage zero current points

(12) Over-frequency reduction point and under-frequency loading point



6. Controlling the inverter switch(ON/OFF)

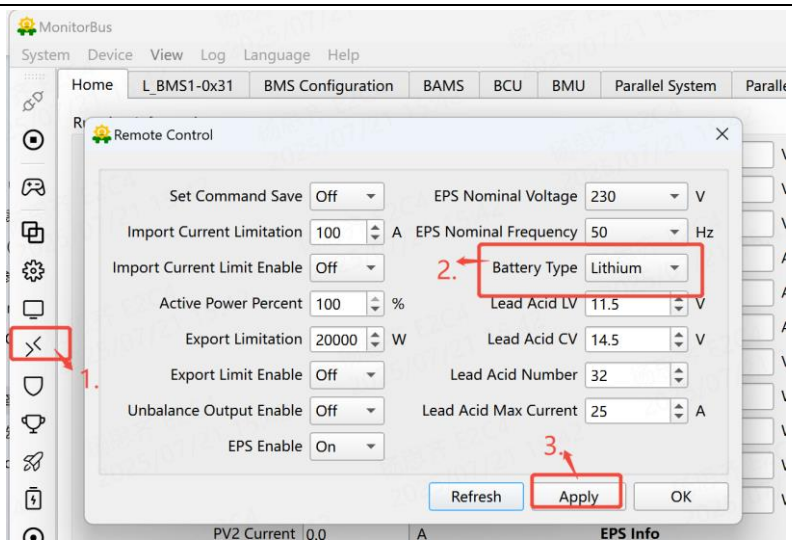
After turning off the inverter, the inverter enters standby



7. Battery setting

7.1 Choosing lithium batteries

Lithium battery is the default battery type, you must use the GIV high-voltage lithium battery system, and properly connect the CAN communication line.



7.2 Choosing lead-acid batteries

1）Lead Acid Number(The number of batteries connected in series)

2）Lead Acid Max Current(Set the maximum charge & discharge current for lead-acid batteries.Default 25A)

3）Lead Acid LV(Single cell minimum voltage.Default 11.5V)

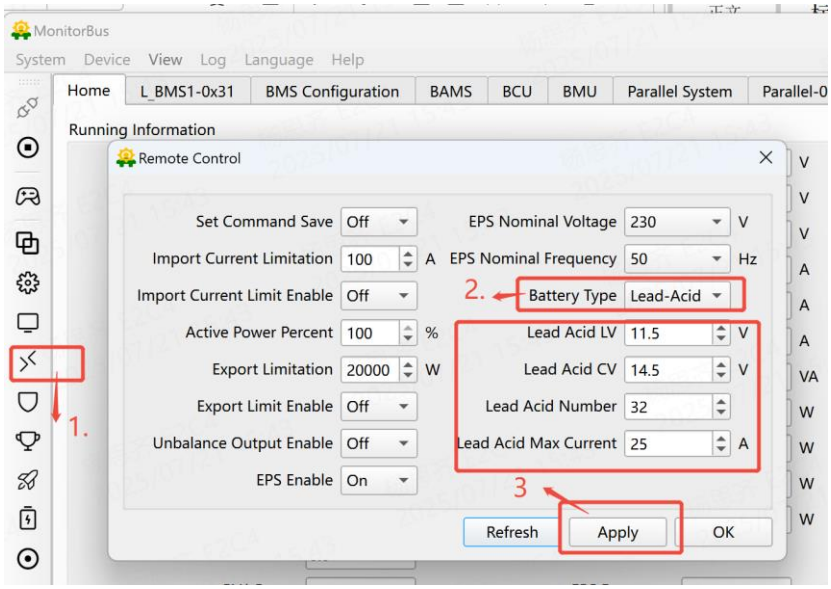
4）Lead Acid CV(Single cell maximum voltage.Default 14.5V)

1）Lead Acid Number(Number of batteries connected in series)

2）Lead Acid Max Current(Set the maximum charging and discharging current for lead-acid batteries, default is 25A)

3）Lead Acid LV(Minimum voltage of a single battery, default 11.5V)

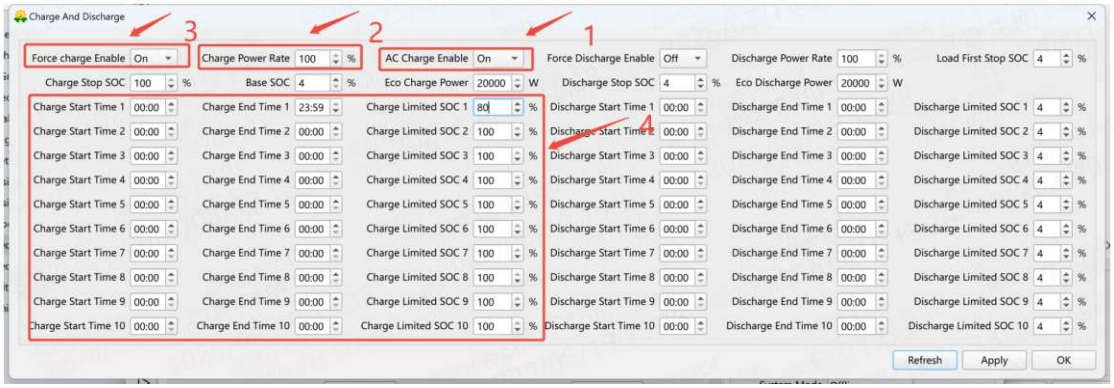
4）Lead Acid CV(Maximum voltage of a single battery, default 14.5V)



8. Battery operating mode setting(Grid Tied)

8.1 Battery Charge

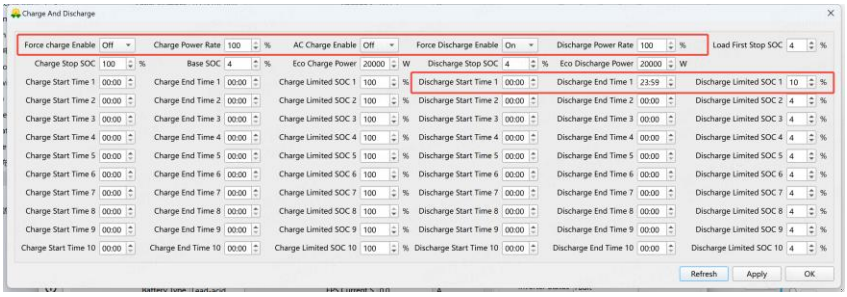
1）Opening Force charge Enable
2）Setting Charge Power Rate
3）Opening or close AC Charge Enable（After closing, The battery can only be charged by PV）
4）Setting Charge Start Time , Charge End Time,and Charge Stop SOC



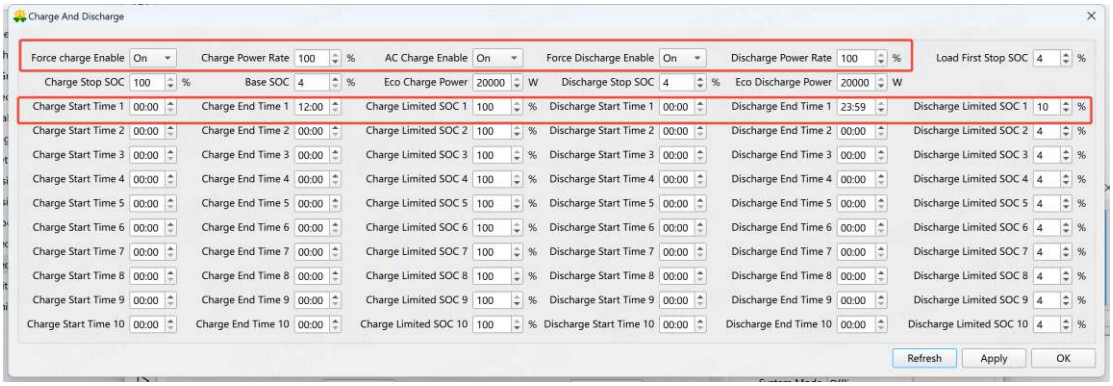
8.2 Battery Discharge

1）Opening Force Discharge Enable
2）Setting Discharge Power Rate
3）Setting Discharge Start Time and Discharge End Time(24-hour clock)， Discharge Stop SOC
4）When Force charge Enable is also turned on, priority is given to the charging setting

Example 1: 00:00~23:59 is the discharge time



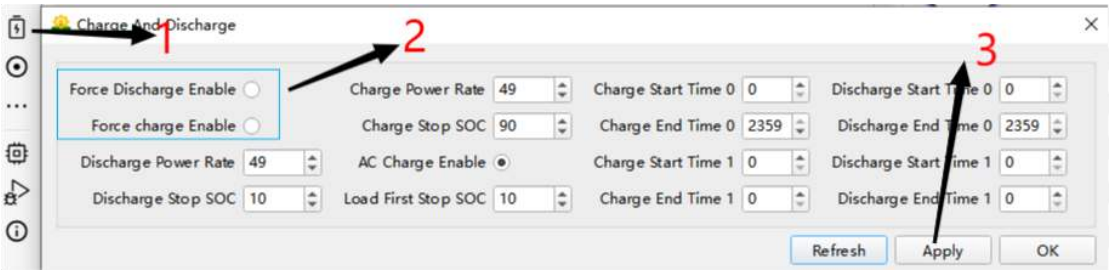
Example 2: 00:00~12:00 is the discharge time.
12:00~23:59 is the charge time



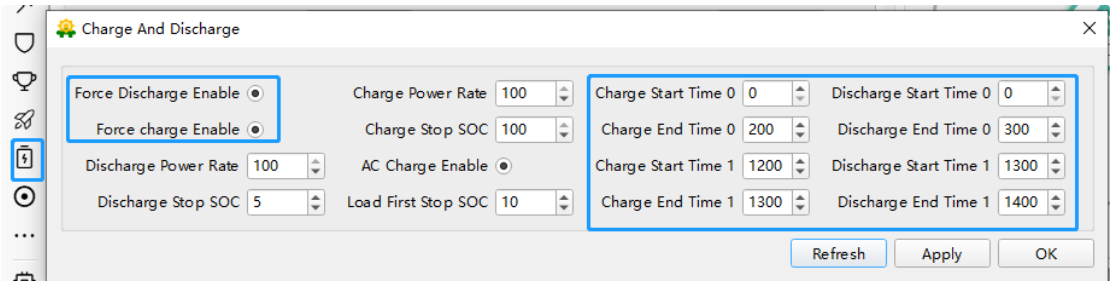
8.3 Priority Load

When the system does not meet the forced charge or forced discharge, the automatic entry load takes precedence

Example 1: Closing Force Discharge Enable and Force charge Enable.The system is load priority at 00:00~23:59.



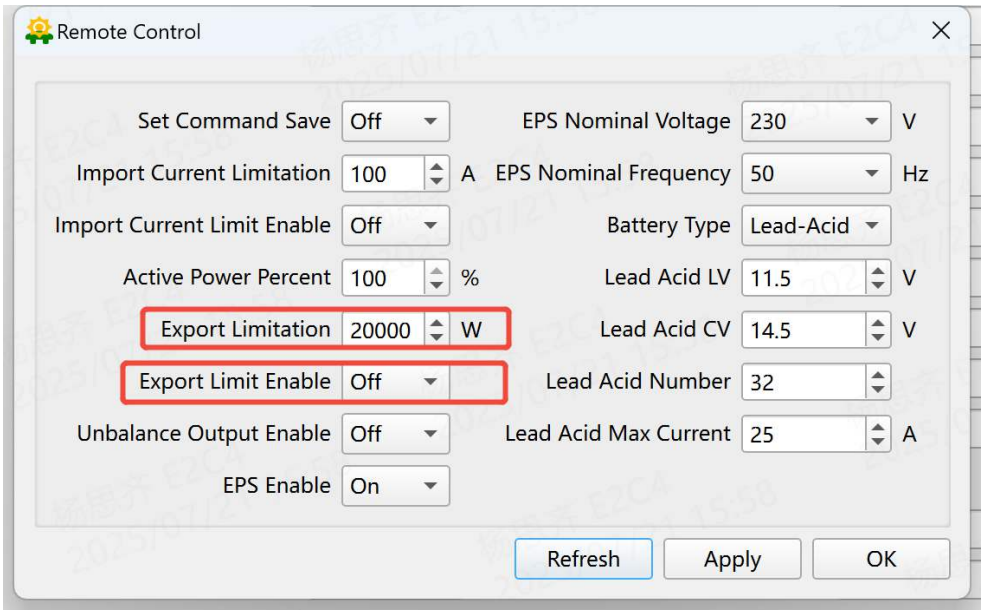
Example 2: 00：00~02：00 Charge first
02：00~04：00 Discharge first
04：00~12：00 Load first
12：00~14：00 Charge first
14：00~16：00 Discharge first
16：00~23：59 Load first

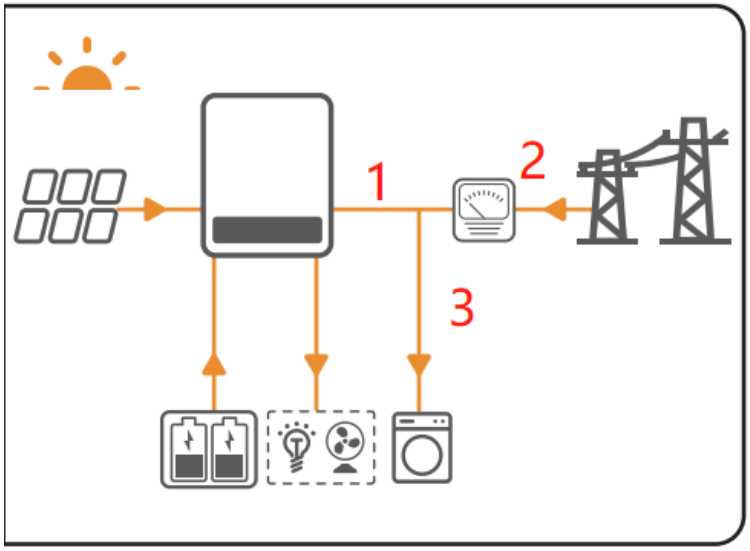


9. Export limit Setting

SSetting the export limit to limit the output to the grid power (the power of branch 2 in the figure below), the default is 20kw (no limit), this function requires the meter to be properly connected to the system.

Note: If the meter does not work normally, the inverter will limit the output power according to the percentage (branch 1 power in the figure below), and the input power will also be limited;


Remote Control
Set Command Save
Off
EPS Nominal Voltage
230
V
Import Current Limitation
100
A
EPS Nominal Frequency
50
Hz
Import Current Limit Enable
Off
Battery Type
Lead-Acid
Active Power Percent
100
%
Lead Acid LV
11.5
V
Export Limitation
20000
W
Lead Acid CV
14.5
V
Export Limit Enable
Off
Lead Acid Number
32
Unbalance Output Enable
Off
Lead Acid Max Current
25
A
EPS Enable
On
Refresh
Apply
OK


1
2
3