GSL ENERGY

— SINCE 2006 —

INVERTER AND BATTERY CONNECTION AND SETTING

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SPLIT PHASE

POWER WALL

RACK BATTERY

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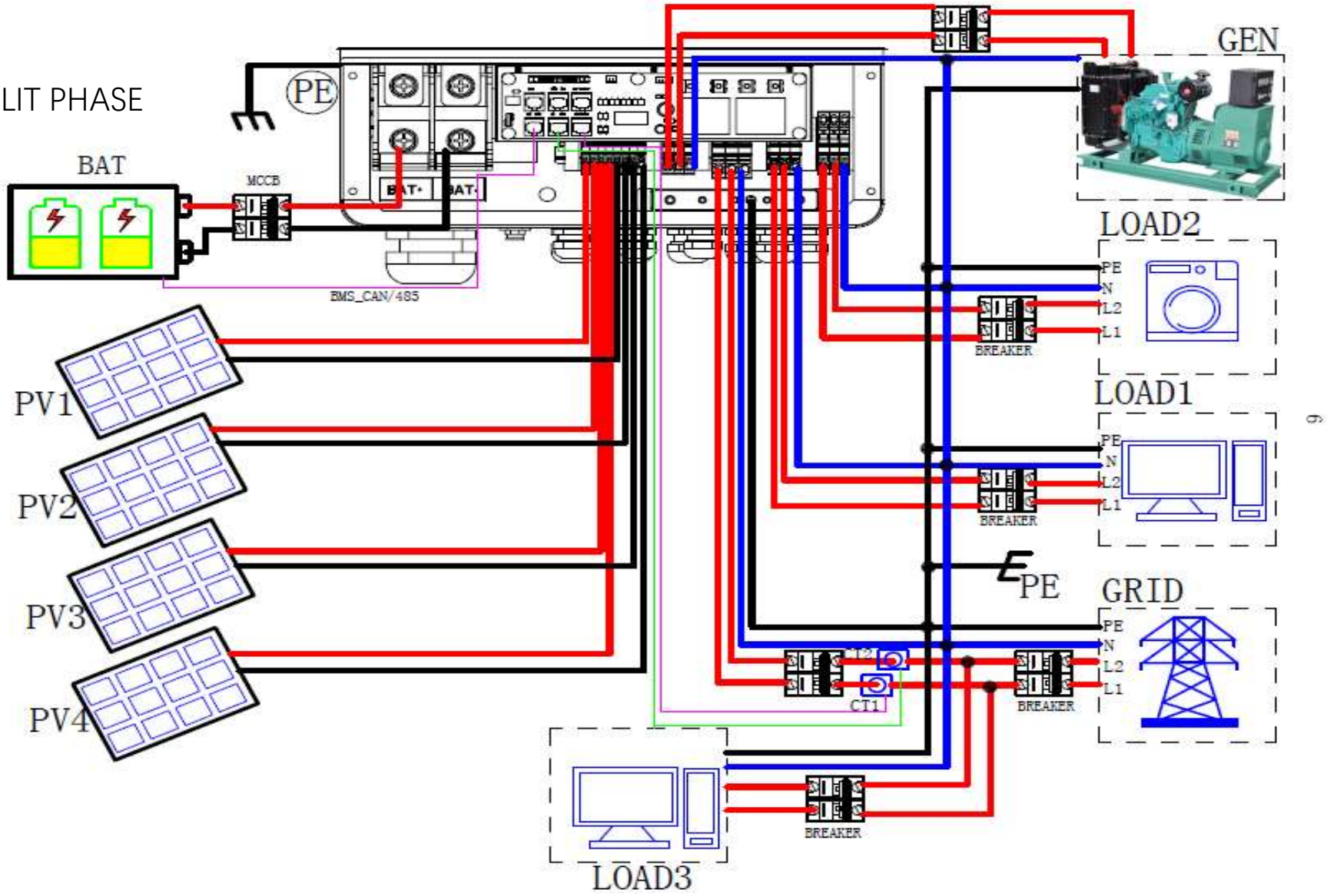
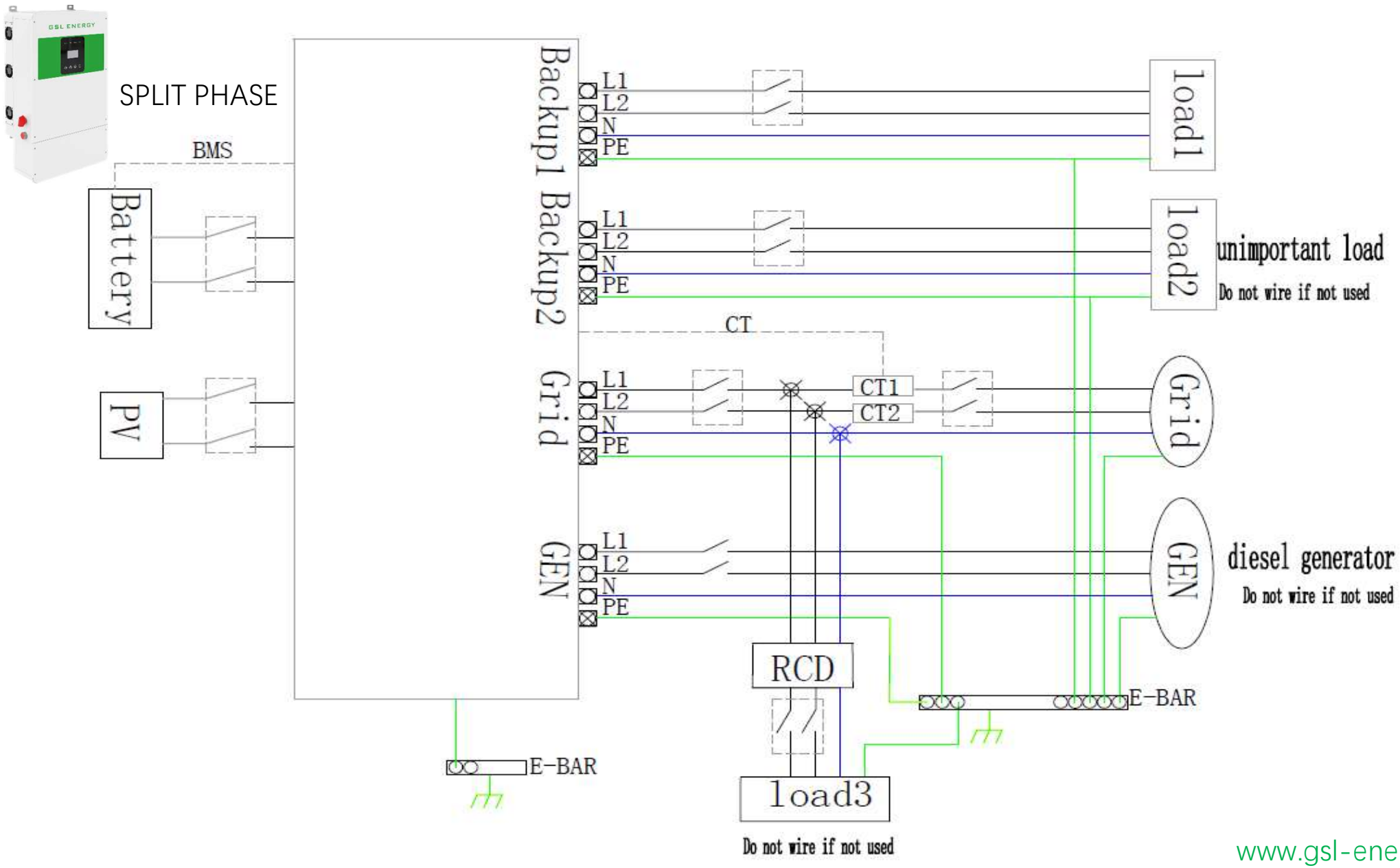
SPLIT PHASE


PE
BAT
MCCB
BMS_CAN/485
PV1
PV2
PV3
PV4
GEN
LOAD2
PE
N
L2
L1
BREAKER
LOAD1
PE
N
L2
L1
BREAKER
PE
GRID
PE
N
L2
L1
CT2
CT1
BREAKER
BREAKER
LOAD3



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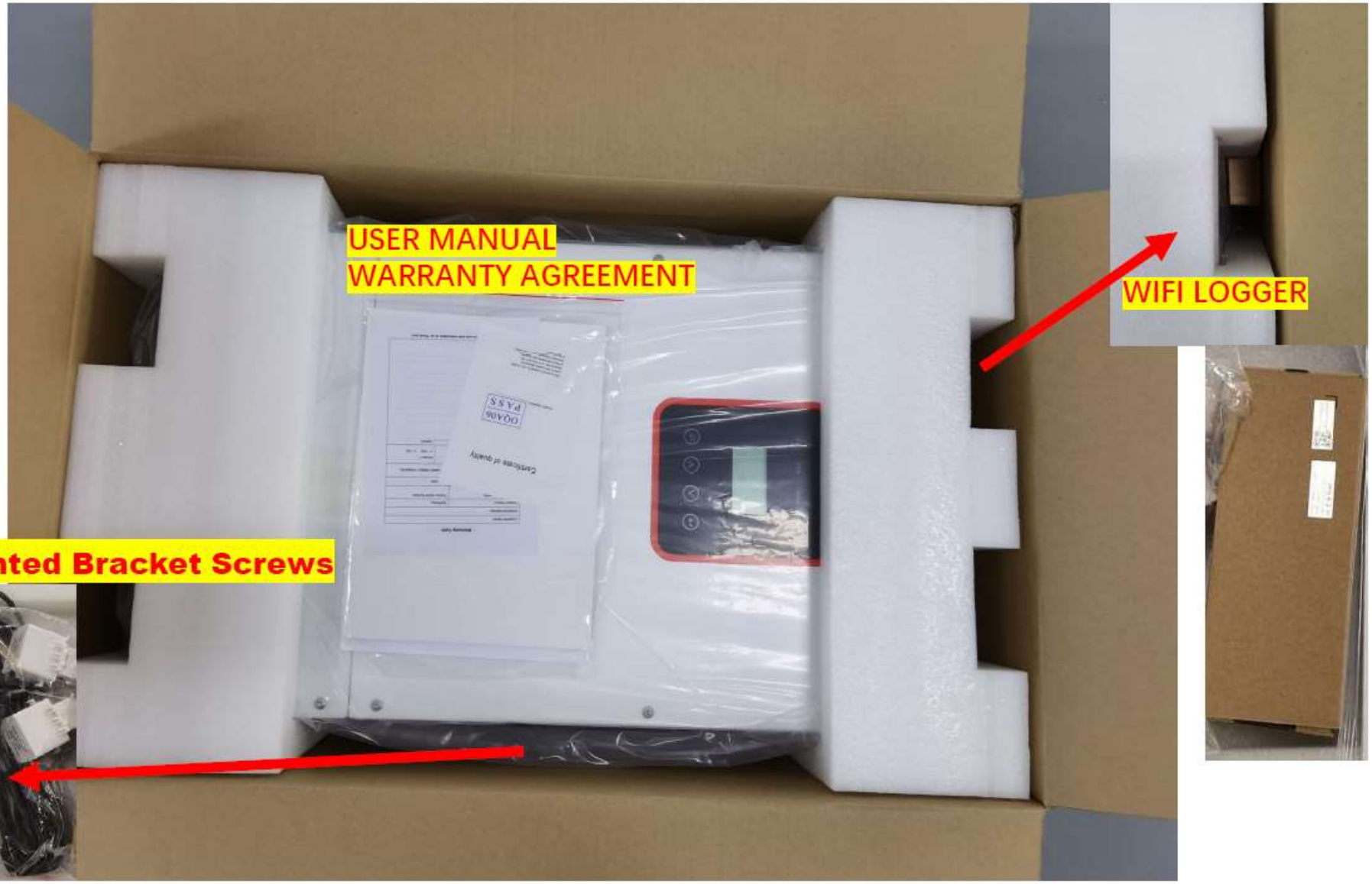
INVERTER AND BATTERY PACKAGE DETAILS



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INVERTER INSTALLATION

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Mounting

➢ Installation Precaution

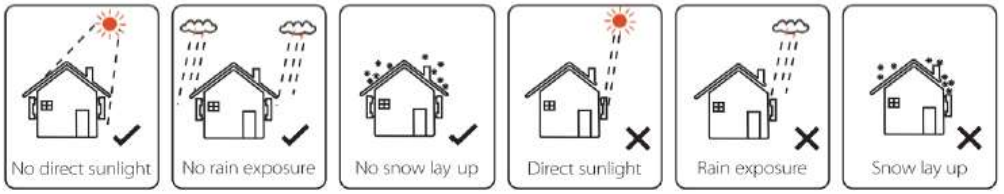
Inverter is designed for outdoor installation (IP 65).Make sure the installation site meets the following conditions:

- Not in direct sunlight.
- Not in areas where highly Flammable materials are stored.
- Not in potential explosive areas.
- Not in the cool air directly.
- Not near the television antenna or antenna cable.
- Not higher than altitude of about 2000m above sea level.
- Not in environment of precipitation or humidity (> 95%).
- Under good ventilation condition.
- The ambient temperature in the range of -20℃ to +60℃.
- The slope of the wall should be within ± 5° .

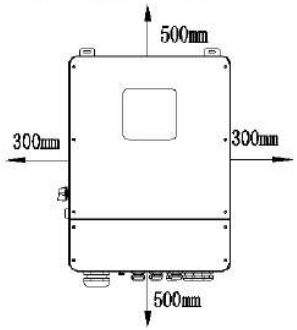
1.solid brick/concrete, or strength equivalent mounting surface;

2.Inverter must be supported or strengthened if the wall’ s strength isn’ t enough(such as wooden wall, the wall covered by thick layer of decoration)

Please AVOIDE direct sunlight, rain exposure, snow laying up during installation and operation.



- **Space Requirement**



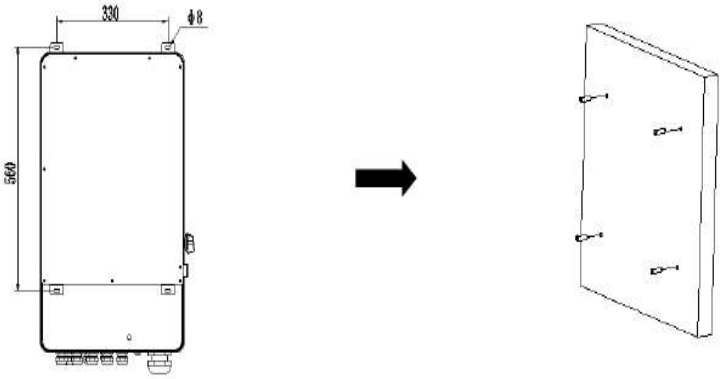
Position	Min.size
Left	300mm
Right	300mm
Top	500mm
Bottom	500mm
Front	1000mm

- Mounting

Tools required for installation.

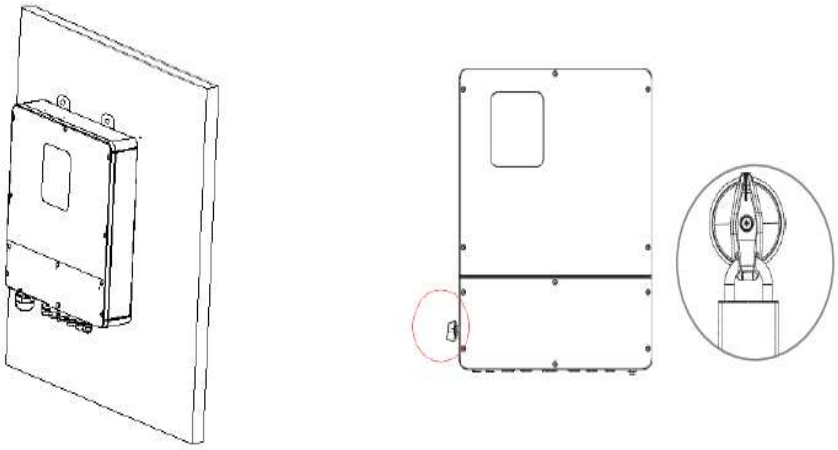
Installation tools : crimping pliers for binding post and RJ45, screwdriver, manual wrench etc

Step 1: Drill 4 holes in the wall according to the following distance dimensions, 50~60mm depth. Then use a proper hammer to fit the expansion bolt into the holes.

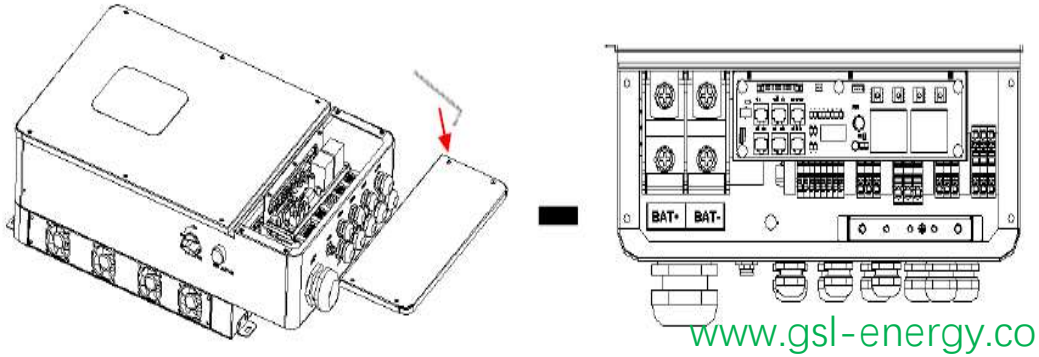


Step 2: Lift up the inverter and align the hole of the inverter with the expansion bolt, Fix the inverter on the wall.

Step 3: Tighten the nut of expansion bolt , and install an anti-theft lock on DC switch of the inverter



Step 4: Remove the cover screws by Allen Wrench and remove the cover. Remove the waterproof cover by a flat blade screwdriver. Wiring box conduit plugs, Conduit plugs are provided for 1 inch conduit fittings. If used conduit fitting is not 1 inch, an appropriate conduit adaptor should be used.



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POWERWALL BATTERY INSTALLATION

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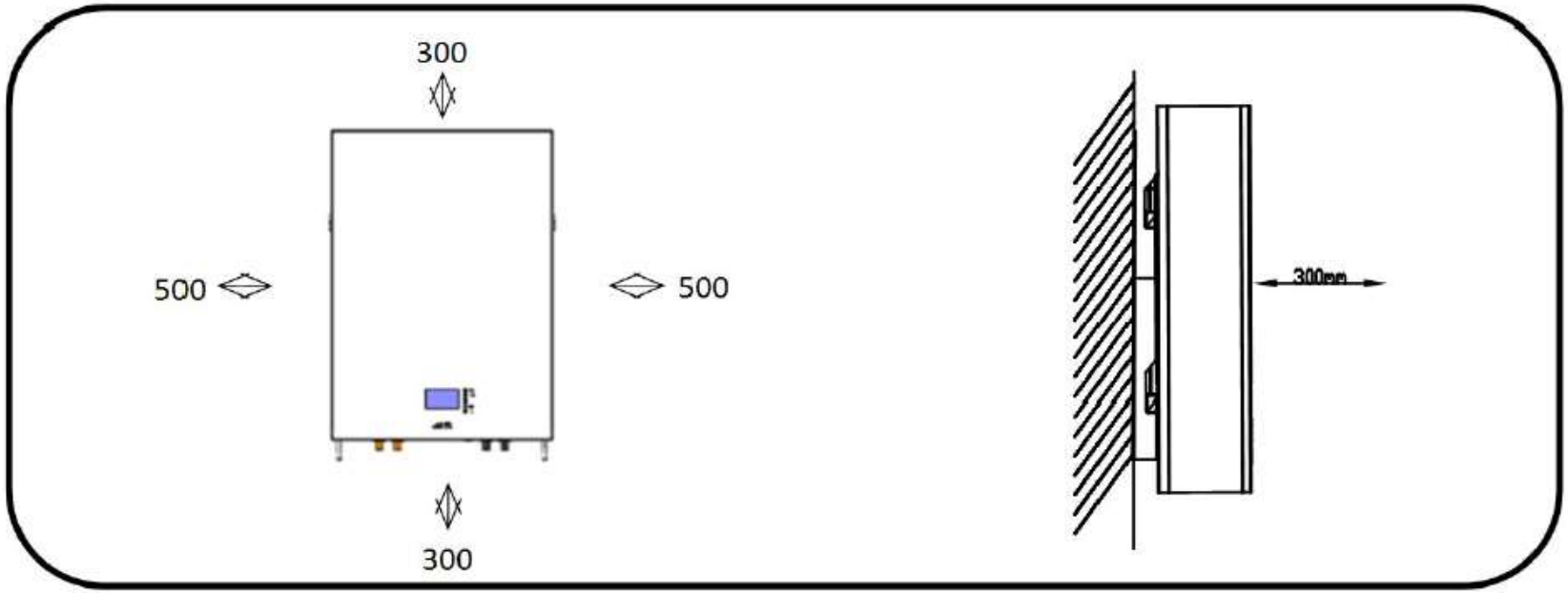
Direction	Minimum clearance (mm)
Above	300
Below	300
Sides	500
Front	300



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Installing the Battery Pack

Mounting to a wall

> ⚠ WARNING
> In order to avoid electrical shock or other injury, inspect existing electronic or plumbing installations before drilling holes.
> The battery is heavy, please handle with care to avoid damage to the product or injury to the installer.

1.Choose suitable firm wall with thickness greater than 80mm.

2.Use the mounting frame as a template, mark the hole position.

3.Drill 8 holes according to the hole position, it is ø10 with depth 60mm.

4.Hammer the M8 screws to the above holes, and screw the nut. Note: Do not position screws flush to the wall - leave 10 to 20 mm exposed.

5.Fix the mounting frame to the 8 screws.

6.Raise the battery a little higher than the mounting frame whilst maintaining the balance of the battery. Hang the battery on the frame through the match hooks.

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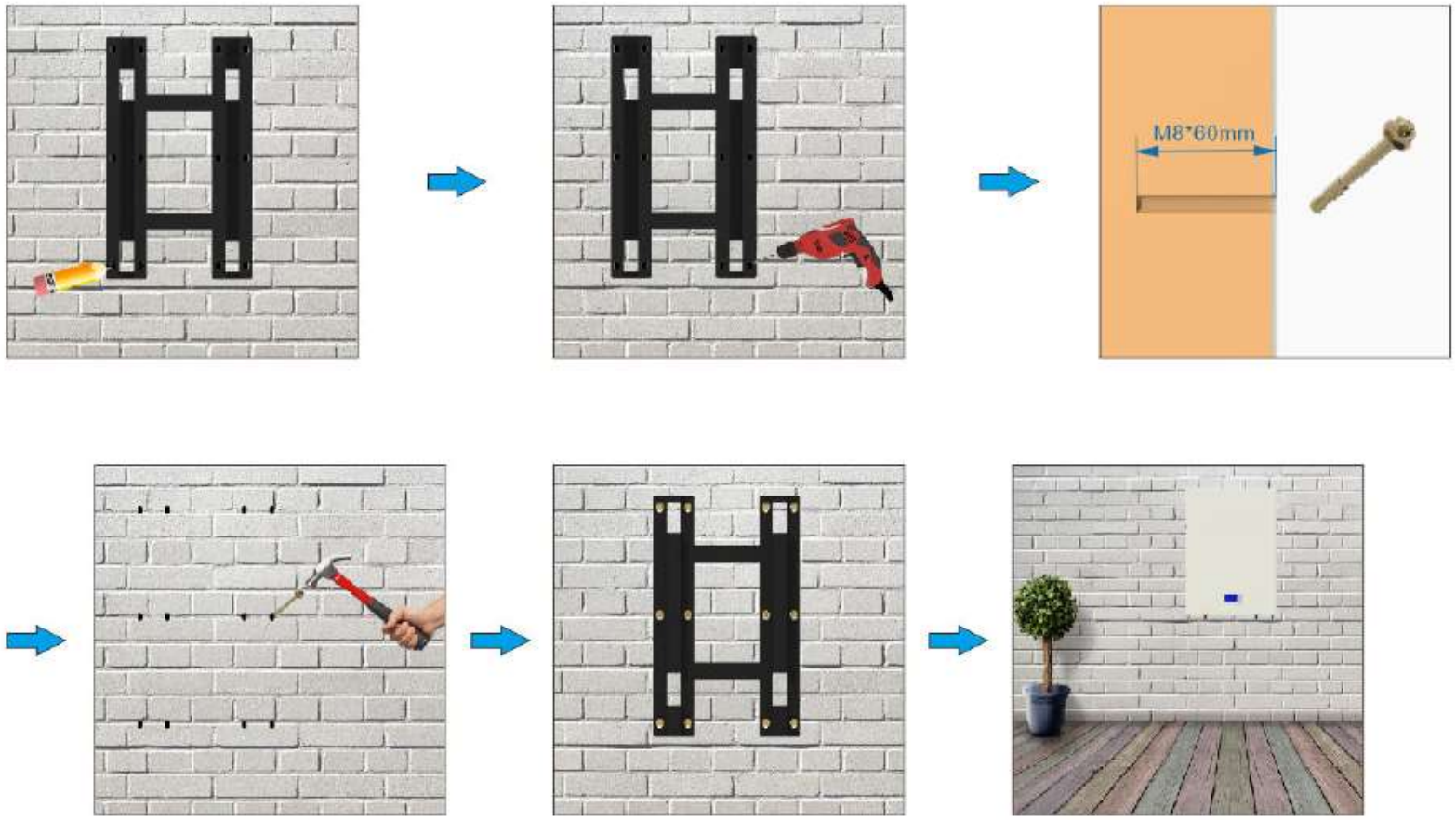

WARNING

Falling equipment can cause serious or even fatal injury: never mount the inverter on the bracket unless you are sure that the mounting frame is firmly mounted on the wall after thorough checking.

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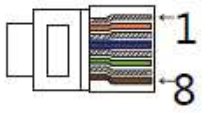
POWER CABLE &COMMUNICATION LINE CONNECTION BETWEEN THE INVERTER AND BATTERY

- **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.

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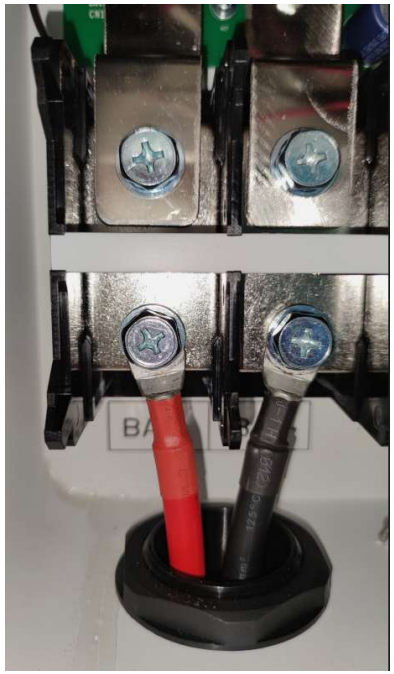
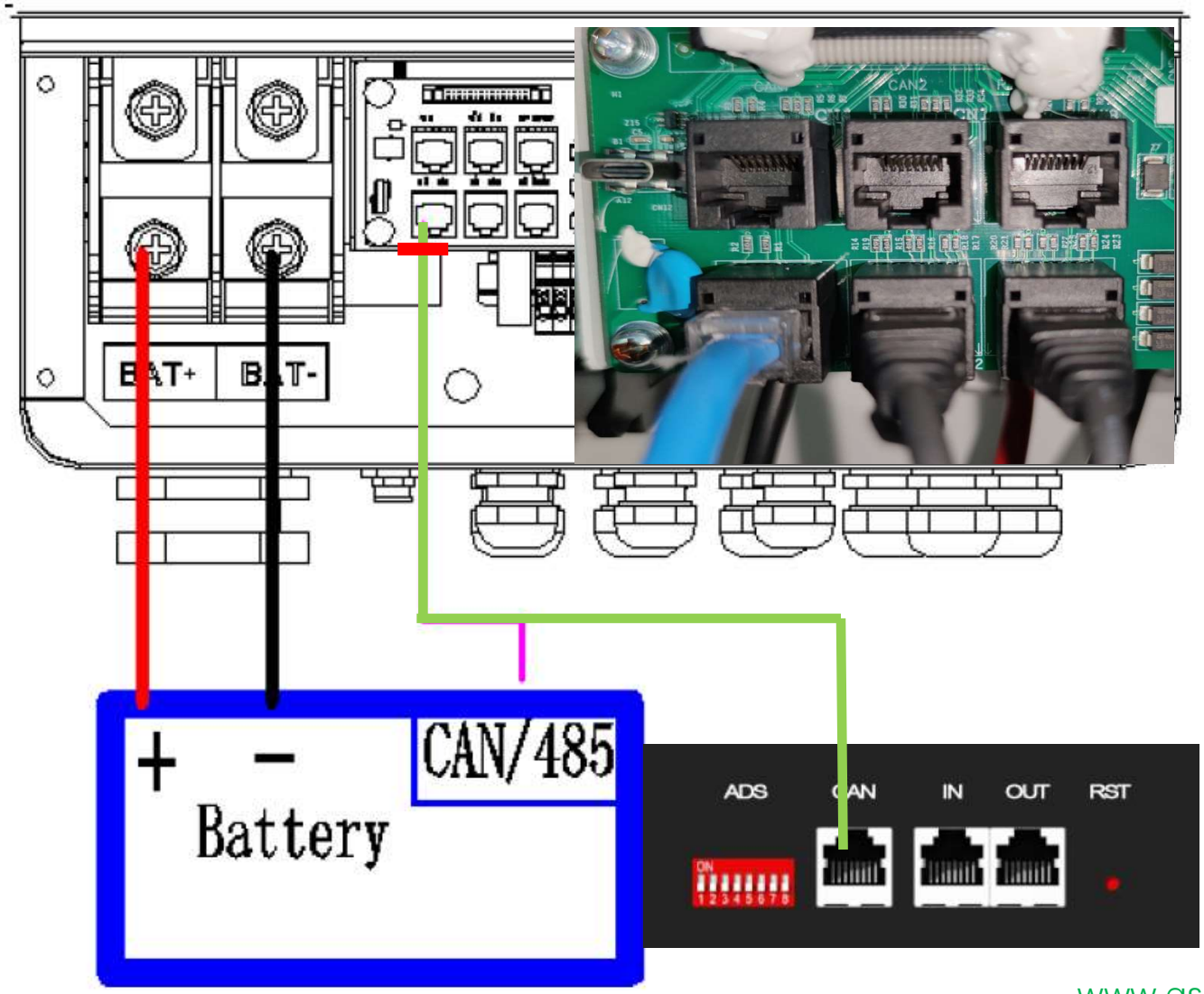
Battery connection diagram

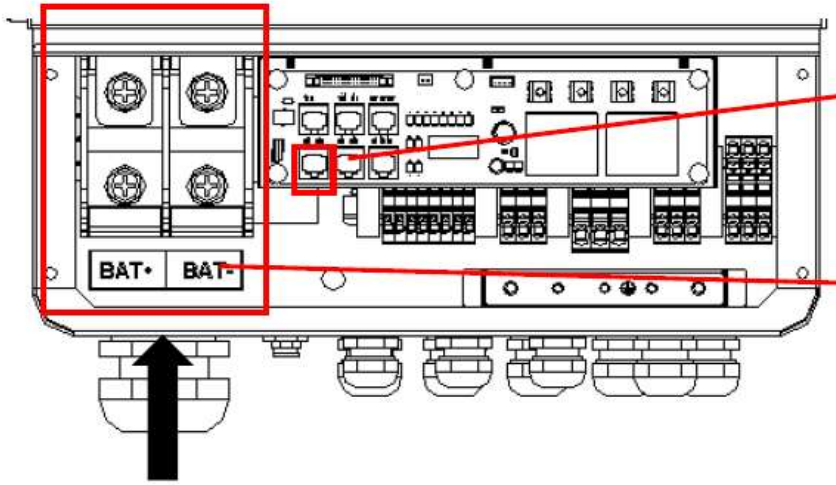
SPLIT PHASE INVERTER

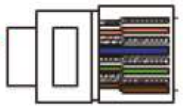




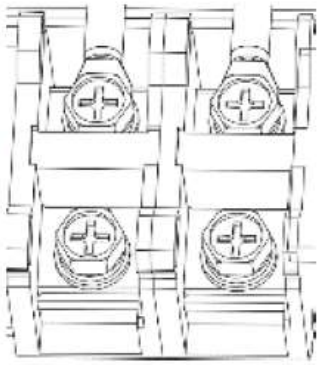
SPLIT PHASE INVERTER

Cross the battery cable although the battery port. Connect battery cable to battery terminal





BMS



BATTERY INTERFACE

24.5 N.M

Note !

Positive and negative lines are not allowed to reverse.

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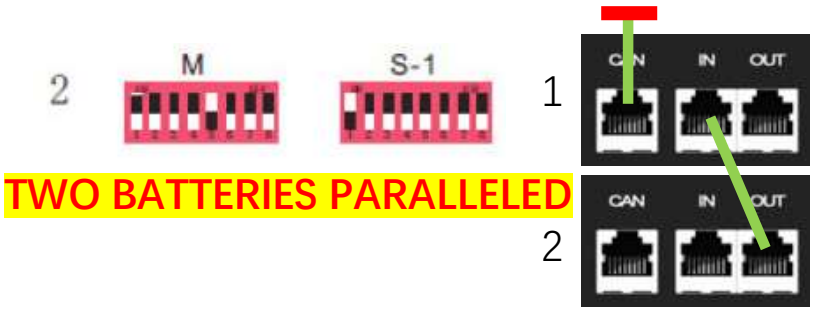
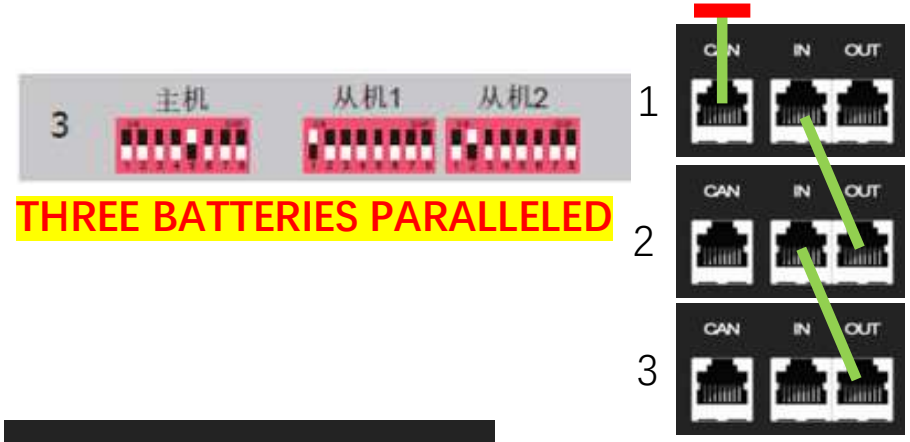
ONE BATTERY

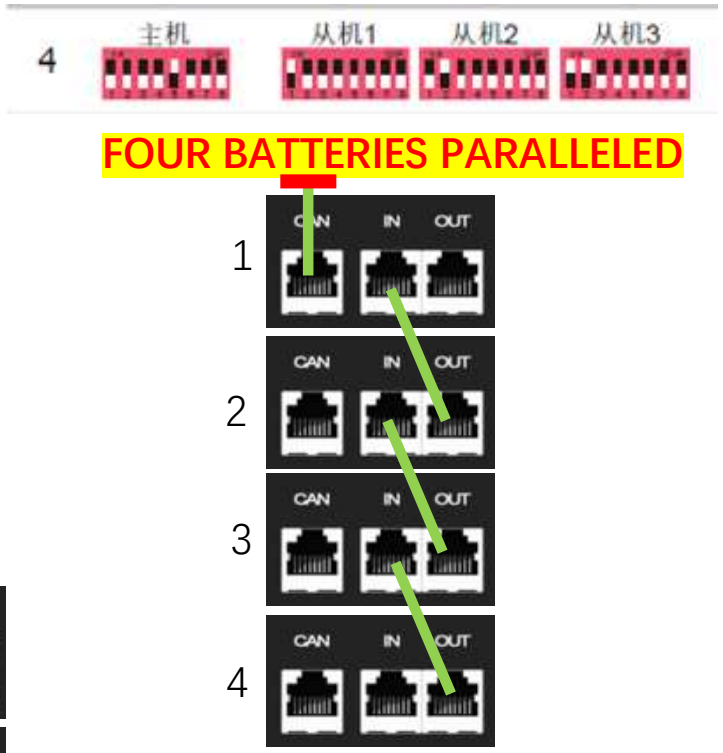
TWO BATTERIES PARALLELED



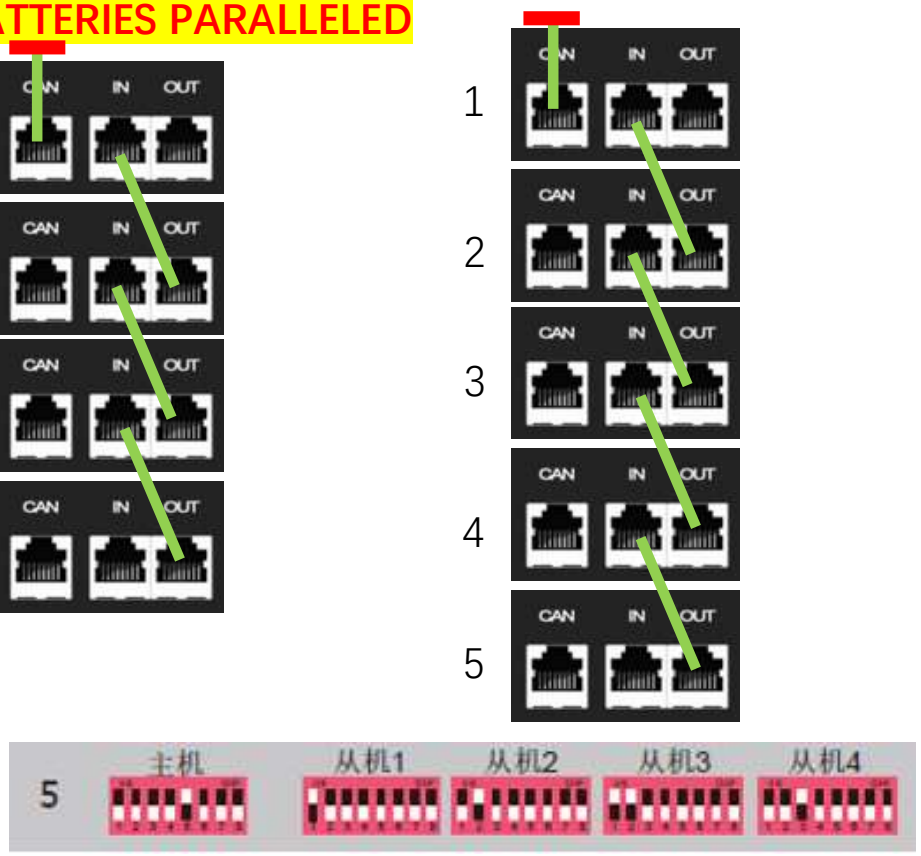
THREE BATTERIES PARALLELED



FOUR BATTERIES PARALLELED



FIVE BATTERIES PARALLELED



BATTERY COMMUNICATION LINE CONNECTION

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1	单机使用															
2	主机	从机1														
3	主机	从机1	从机2													
4	主机	从机1	从机2	从机3												
5	主机	从机1	从机2	从机3	从机4											
6	主机	从机1	从机2	从机3	从机4	从机5										
7	主机	从机1	从机2	从机3	从机4	从机5	从机6									
8	主机	从机1	从机2	从机3	从机4	从机5	从机6	从机7								
9	主机	从机1	从机2	从机3	从机4	从机5	从机6	从机7	从机8							
10	主机	从机1	从机2	从机3	从机4	从机5	从机6	从机7	从机8	从机9						
11	主机	从机1	从机2	从机3	从机4	从机5	从机6	从机7	从机8	从机9	从机10					
12	主机	从机1	从机2	从机3	从机4	从机5	从机6	从机7	从机8	从机9	从机10	从机11				
13	主机	从机1	从机2	从机3	从机4	从机5	从机6	从机7	从机8	从机9	从机10	从机11	从机12			
14	主机	从机1	从机2	从机3	从机4	从机5	从机6	从机7	从机8	从机9	从机10	从机11	从机12	从机13		
15	主机	从机1	从机2	从机3	从机4	从机5	从机6	从机7	从机8	从机9	从机10	从机11	从机12	从机13	从机14	
16	主机	从机1	从机2	从机3	从机4	从机5	从机6	从机7	从机8	从机9	从机10	从机11	从机12	从机13	从机14	从机15

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SPLIT PHASE INVERTER INTRODUCTION&SETTING

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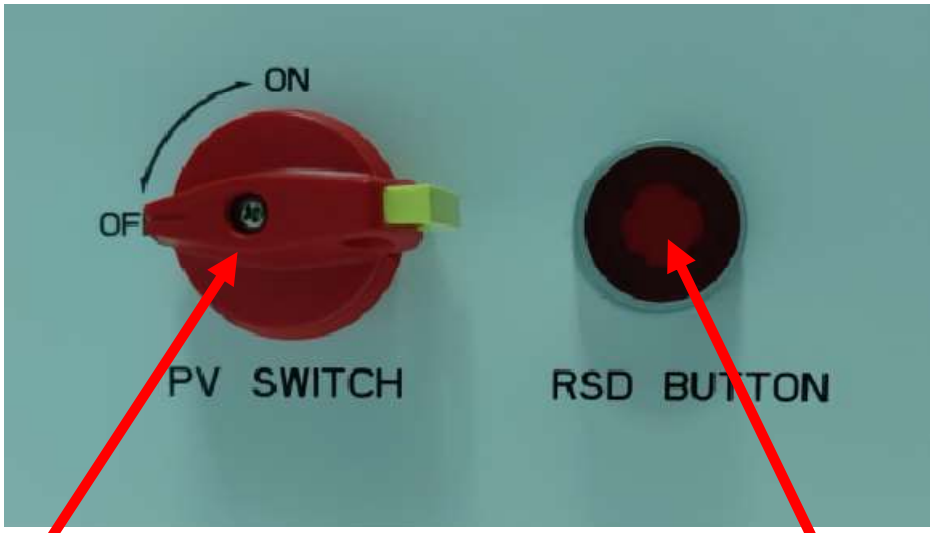

PV ON&OFF

BATTERY ON&OFF BUTTON

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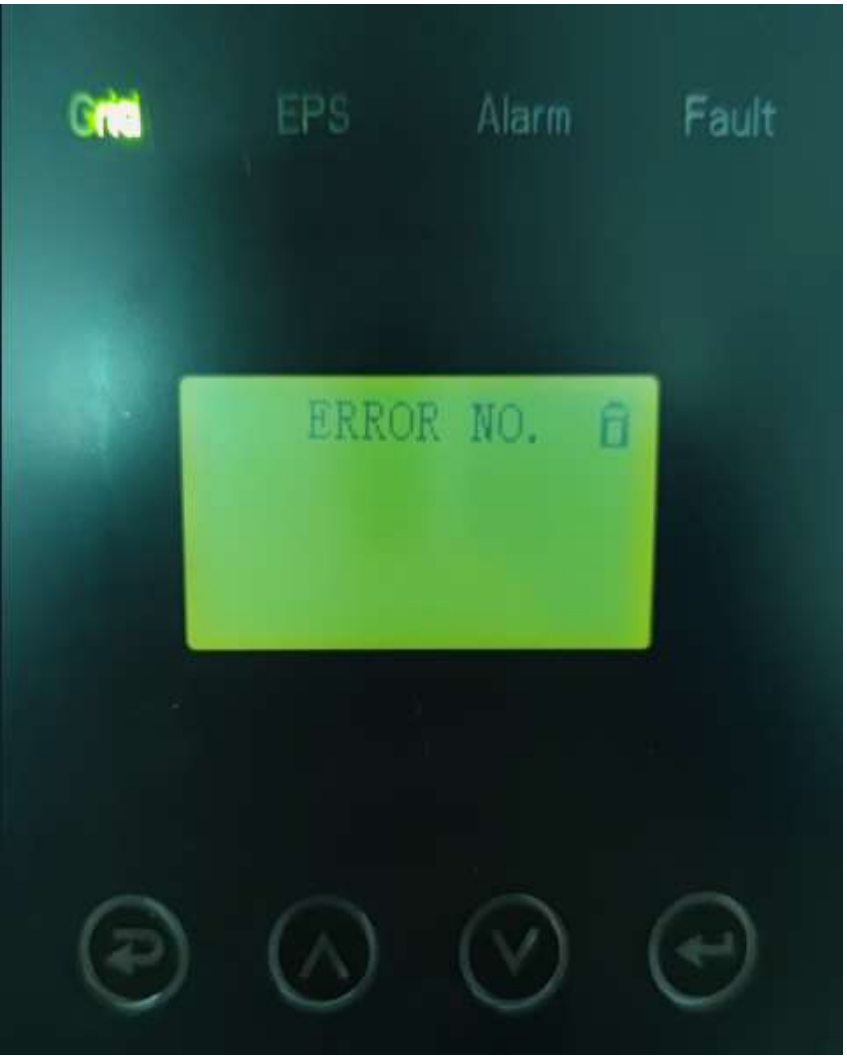
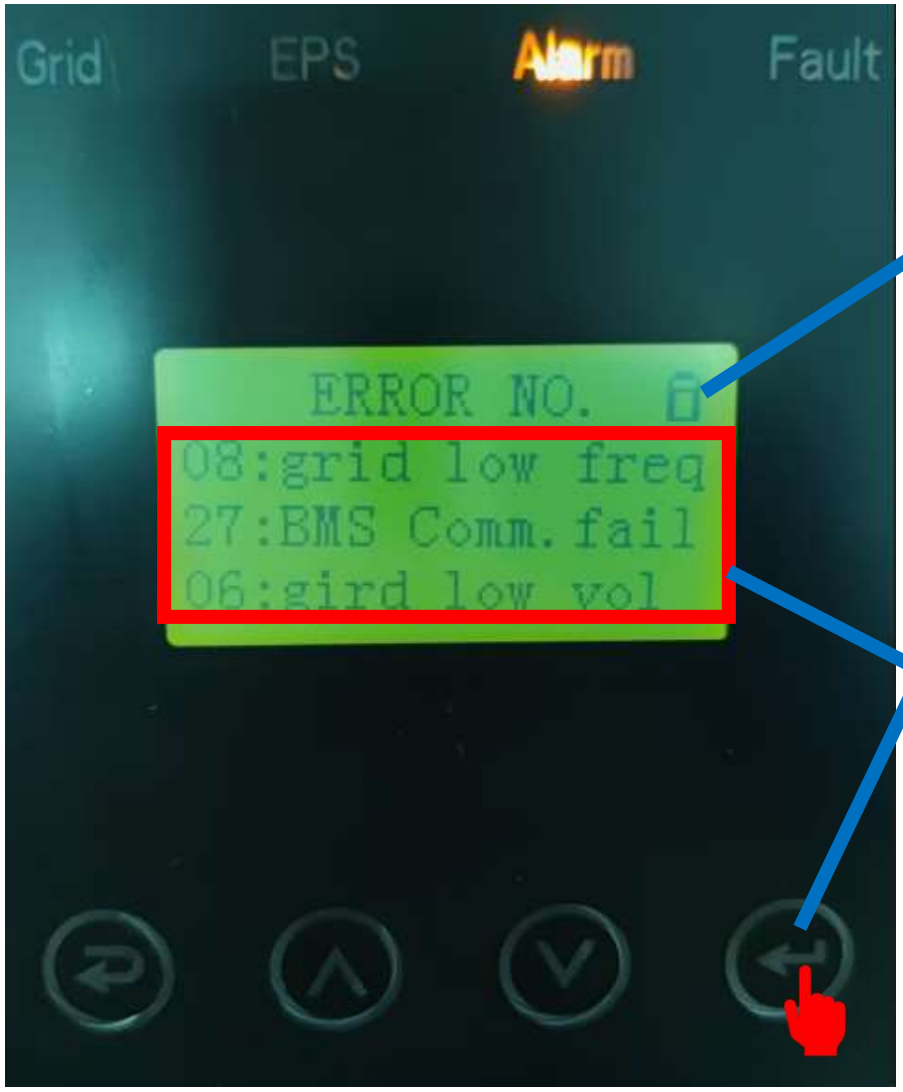
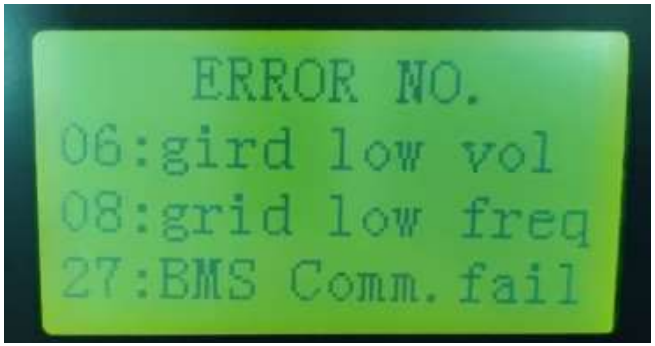
SYSTEM OPERATION INFORMATION INTRODUCTION



NORMAL AND SYSTEM WORKING WELL



screen lock screen， press ENTER to CANCEL,
Press ENTER to Lock again.



08&06: NO GRID POWER CONNECT,
Does not affect the normal operation of the system

27: The communication is not successful between the inverter and battery. Affect the normal operation of the system with lithium model. If the user can not deal it, pls choice Lead Acid in the battery type setting.

08&06: NO GRID POWER CONNECT,
Does not affect the normal operation of the system

gird low vol	06	(1)Check if the grid is abnormal. (2) Restart the inverter and wait until it functions normally. (3) Contact customer service if error warning continues.
grid low freq	08	(1)Check if the grid is abnormal. (2) Restart the inverter and wait until it functions normally. (3) Contact customer service if error warning continues.

The communication is successful between the inverter and battery.

bus over vol	14	(1) Check the input mode setting is correct. (2) Restart the inverter and wait until it functions normally. (3) Contact customer service if error warning continues.

- 1、SYS SETTING
  - 1、WORK MODE
    - 1、SELF CONSUME
    - 2、PEAK SHIFT
    - 3、BAT PRIORITY
  - 2、EPS ENABLE
  - 3、BAT WAKE-UP
  - 4、REMOTE CTRL
  - 5、START DELAY
  - 6、PV INPUT
    - 1、INDEPENDANT
    - 2、PARALLEL (Test mode)
    - 3、CV (Test mode)
  - 7、ANTI REVERSE
- 2、BAT SETTING
  - 1、BAT TYPE
    - 1、DC-SOURCE
    - 2、LEAD-ACID
    - 3、Lithum-48V
  - 2、DISC-DEPTH
  - 3、CHARG-CURR
  - 4、BAT-COMM
    - 1、RS485
    - 2、CAN
- 3、GRID STD

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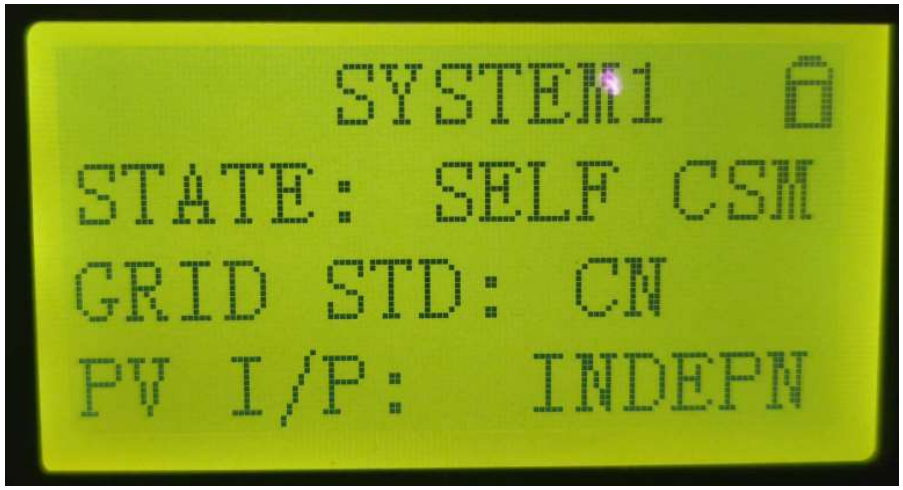
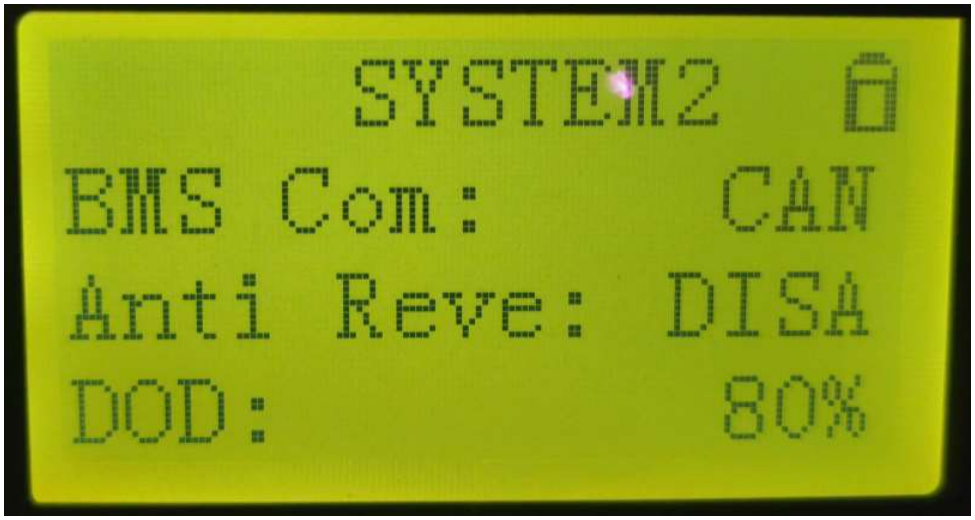


- 1、SYS SETTING
  - 1、WORK MODE
    - 1、SELF CONSUME
    - 2、PEAK SHIFT
    - 3、BAT PRIORITY
  - 2、EPS ENABLE
  - 3、BAT WAKE-UP
  - 4、REMOTE CTRL
  - 5、START DELAY
  - 6、PV INPUT
    - 1、INDEPENDANT
    - 2、PARALLEL (Test mode)
    - 3、CV (Test mode)
  - 7、ANTI REVERSE
- 2、BAT SETTING
  - 1、BAT TYPE
    - 1、DC-SOURCE
    - 2、LEAD-ACID
    - 3、Lithum-48V
  - 2、DISC-DEPTH
  - 3、CHARG-CURR
  - 4、BAT-COMM
    - 1、RS485
    - 2、CAN
- 3、GRID STD (8CN: CHINA) (9:US-CA)



- 1、SYS SETTING
  - 1、WORK MODE
    - 1、SELF CONSUME
    - 2、PEAK SHIFT
    - 3、BAT PRIORITY
  - 2、EPS ENABLE
  - 3、BAT WAKE-UP
  - 4、REMOTE CTRL
  - 5、START DELAY
  - 6、PV INPUT
    - 1、INDEPENDANT
    - 2、PARALLEL (Test mode)
    - 3、CV (Test mode)
  - 7、ANTI REVERSE
- 2、BAT SETTING
  - 1、BAT TYPE
    - 1、DC-SOURCE
    - 2、LEAD-ACID
    - 3、Lithum-48V
  - 2、DISC-DEPTH
  - 3、CHARG-CURR
  - 4、BAT-COMM
    - 1、RS485
    - 2、CAN
- 3、GRID STD

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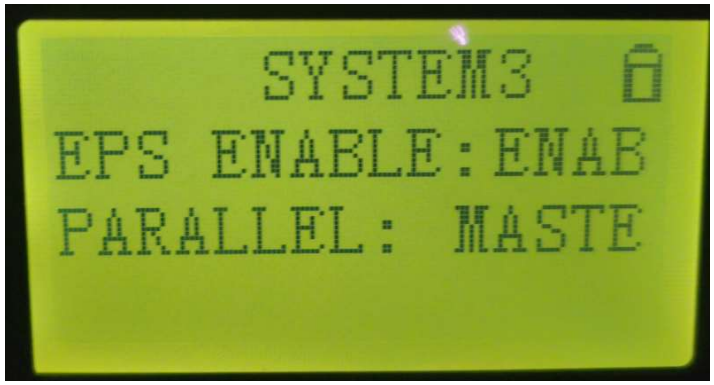
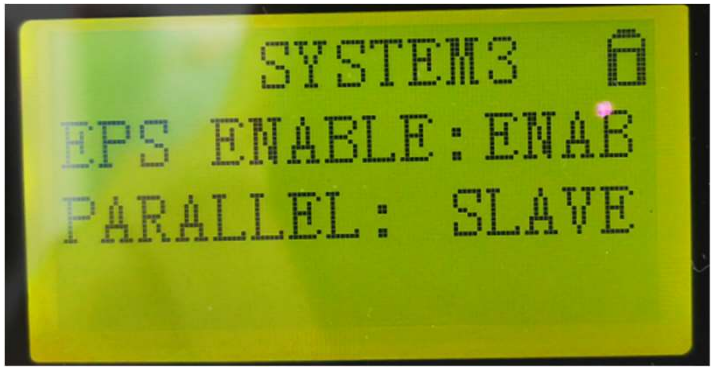
MASTER INVERTER



SLAVE INVERTER



- 1、SYS SETTING
  - 1、WORK MODE
    - 1、SELF CONSUME
    - 2、PEAK SHIFT
    - 3、BAT PRIORITY
  - 2、EPS ENABLE
  - 3、BAT WAKE-UP
  - 4、REMOTE CTRL
  - 5、START DELAY
  - 6、PV INPUT
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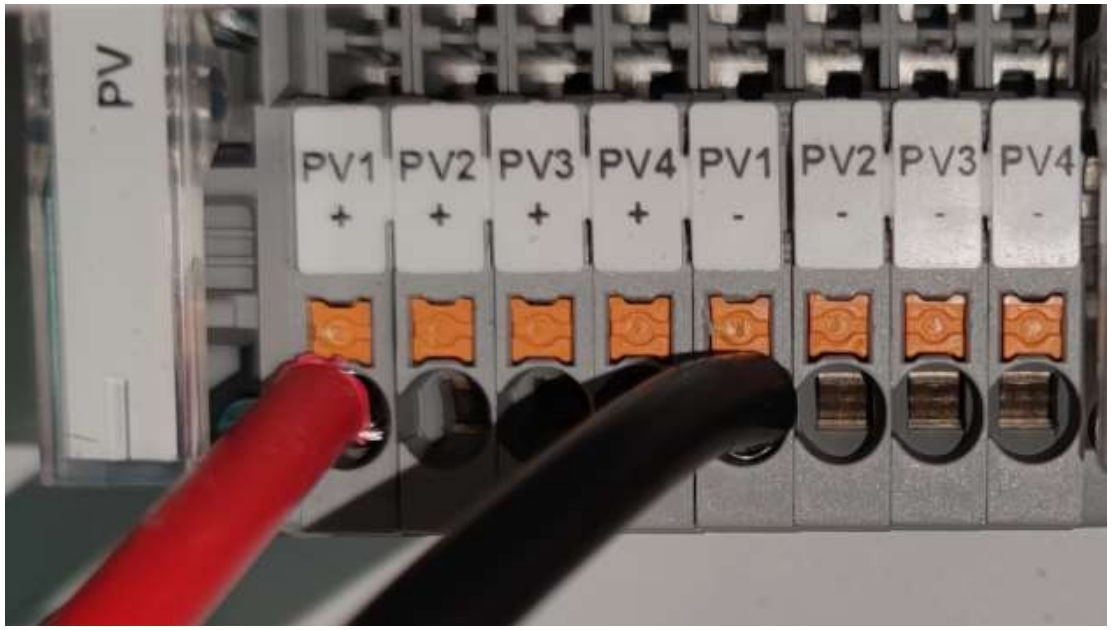
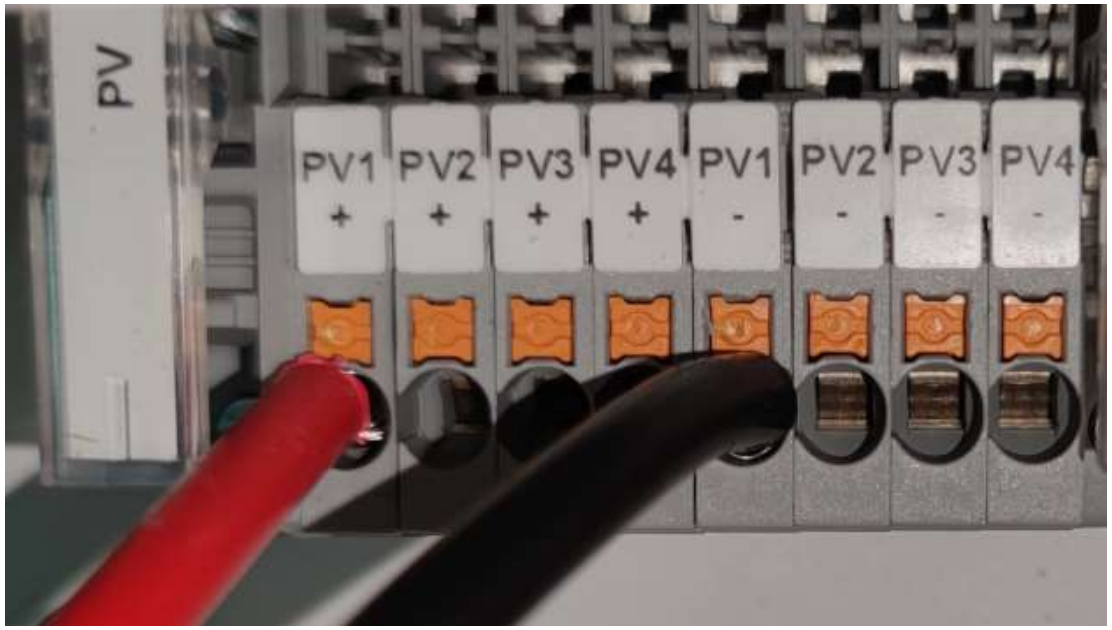
    - 2、PARALLEL (Test mode)
    - 3、CV (Test mode)
  - 7、ANTI REVERSE
- 2、BAT SETTING
  - 1、BAT TYPE
    - 1、DC-SOURCE
    - 2、LEAD-ACID
    - 3、Lithum-48V
  - 2、DISC-DEPTH
  - 3、CHARG-CURR
  - 4、BAT-COMM
    - 1、RS485
    - 2、CAN
- 3、GRID STD

PV 1 WORKING

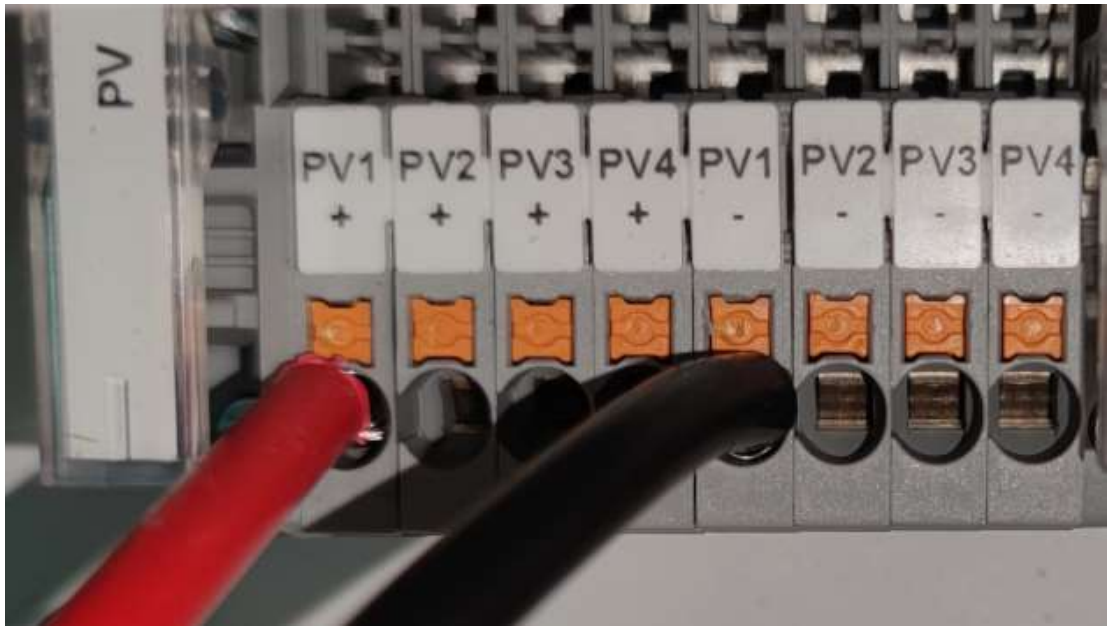
PV1 INPUT
VOLT: 352.5V
CURR: 5.10A
POWER: 1809W


PV
PV1 + PV2 + PV3 + PV4 + PV1 - PV2 - PV3 - PV4 -

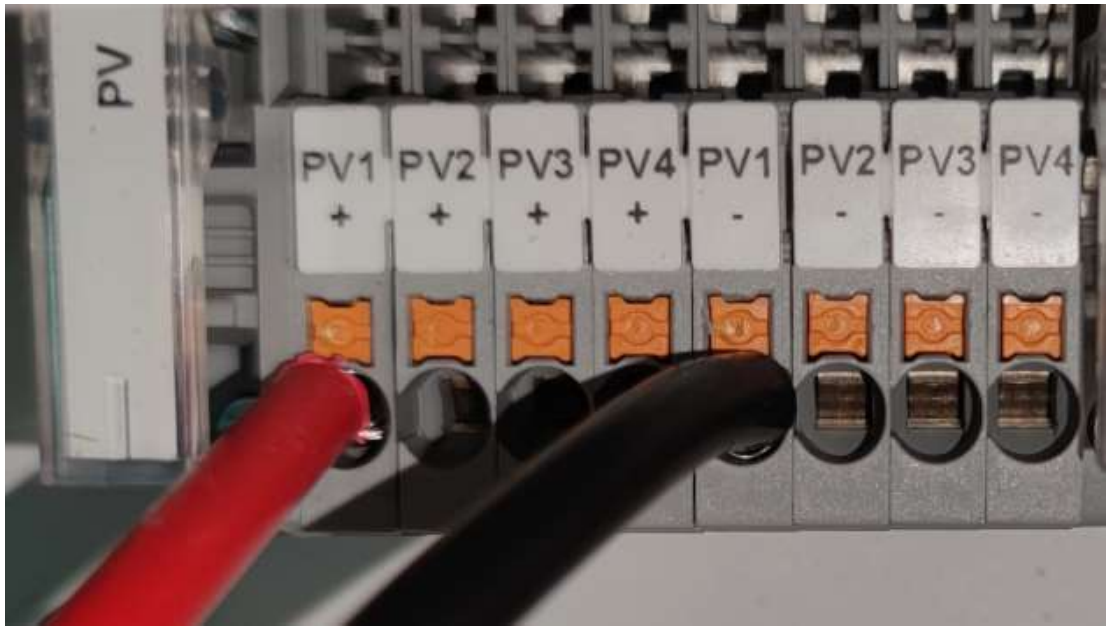
PV 2 NO CONNECTION



PV 3 NO CONNECTION



PV 4 NO CONNECTION



Model	GSL-H-5KLV-US	GSL-H-8KLV-US
PV Input		
PV input power	7.5KW	12KW
MPPT number	4	
PV voltage range	350V/85V - 500V	
MPPT voltage range	120V-500V	
Single MPPT input current	12A	12A

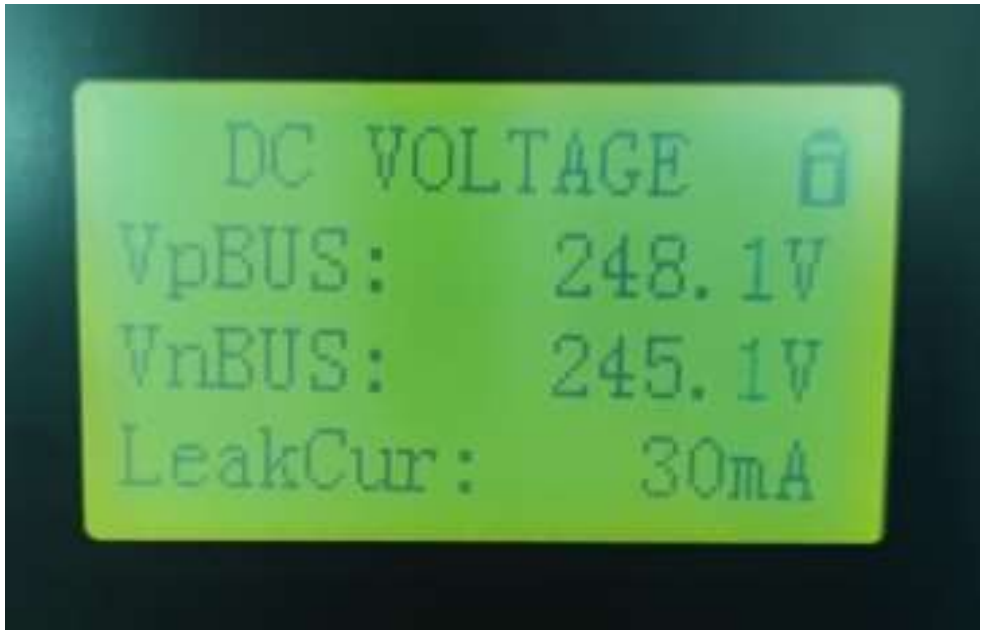
8kw inverter pv design idea

PV1 +	PV2 +	PV3 +	PV4 +	PV1 −	PV2 −	PV3 −	PV4 −

PLAN1 : MAX 26PCS*450W=12KW
9PC connected with PV1+ & PV1-
9PC connected with PV2+ & PV2-
8PC connected with PV3+ & PV3-

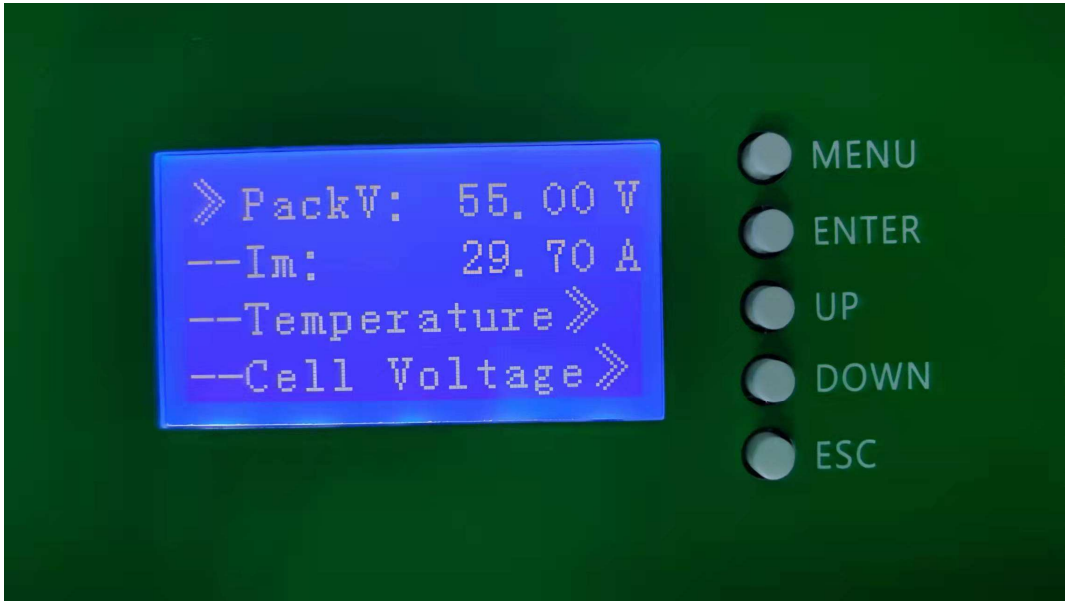
PLAN2 : MIN 10PCS*450W=4.5KW
10PC connected with PV1+ & PV1-

PLAN3 : MIN 10PCS*450W=4.5KW
5PC connected with PV1+ & PV1-
5PC connected with PV3+ & PV3-



The DC BUS voltage is the DC bus voltage inside the inverter (the DC bus voltage after the PV input is tracked and transformed by the MPPT)
Vp BUS (BUS peak voltage)
Vn BUS (BUS normal voltage)

BATTERY
VOLT: 55.0V
CURR: 29.7A
STA: C D


≫PackV: 55.00 V
--Im: 29.70 A
--Temperature≫
--Cell Voltage≫
MENU
ENTER
UP
DOWN
ESC

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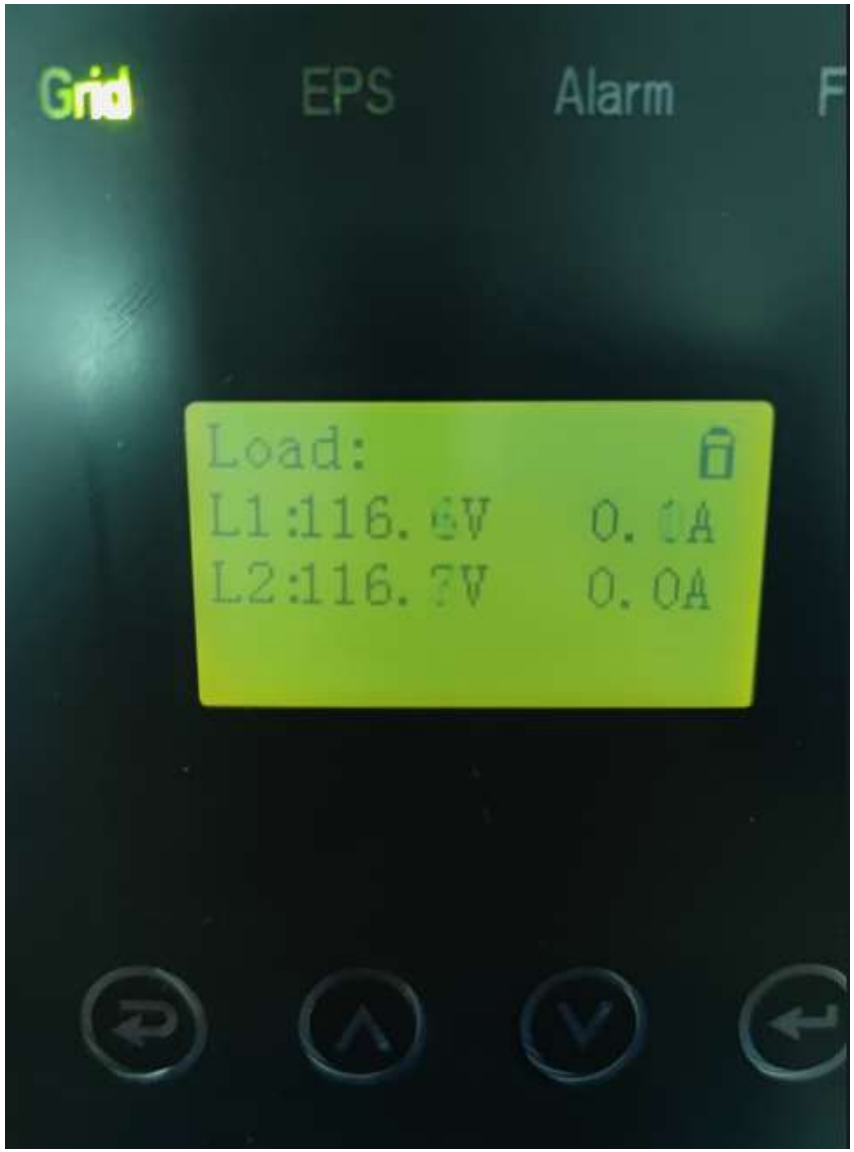
Grid
EPS
Alarm
F
Load:
L1:116.6V 0.0A
L2:116.7V 0.0A

Grid
EPS
Alarm
Fa
INV: 49.96Hz
L1:117.0V 1.2A
L2:116.9V 1.1A

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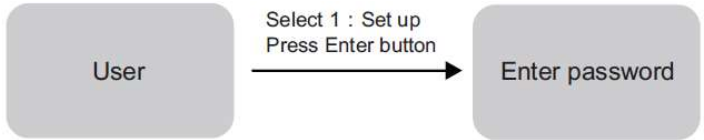
EPS
Alarm
Faul
POWER
PV I/P: 1021W
BAT: 543W

EPS
Alarm
Fau
TEMPERATURE
INVER: 25°C
DCDC: 26°C
INSIDE: 34°C

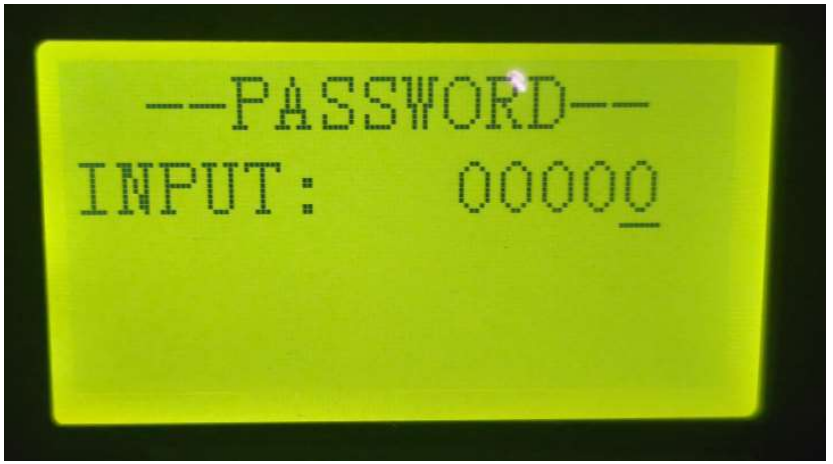
SYSTEM ENERGY SUPPLIER: PV+GRID
INVERTER: GRID
DCDC: BATTERY CHARGING

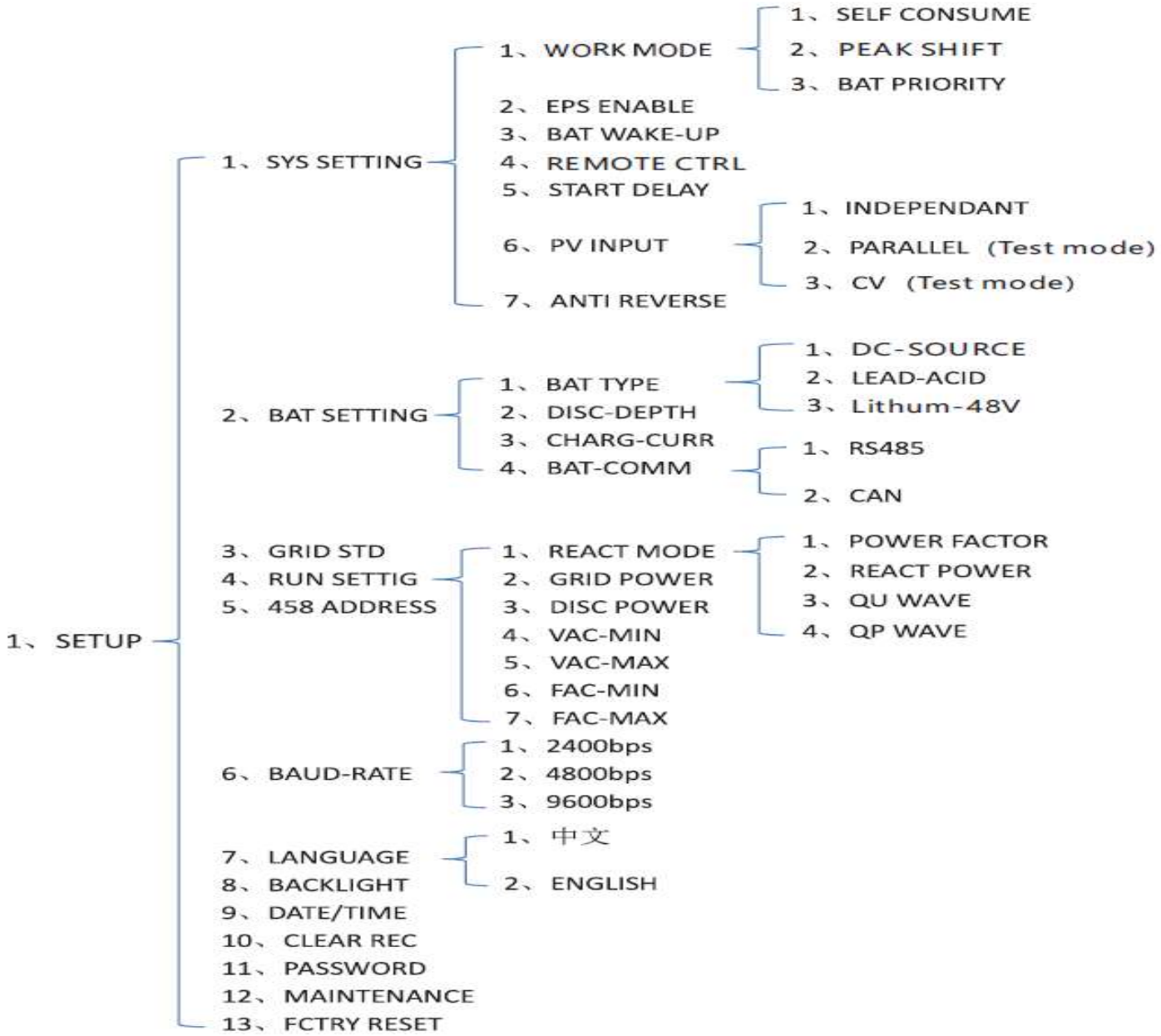
USER SET UP DETAILS

Pls make the inverter setting with the battery power at first, without the grid power.



Default password 00000
Press UP/DOWN button
Adjust the figure.





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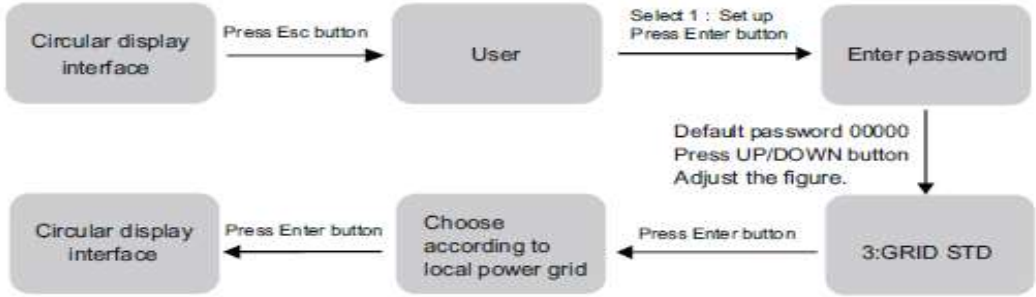
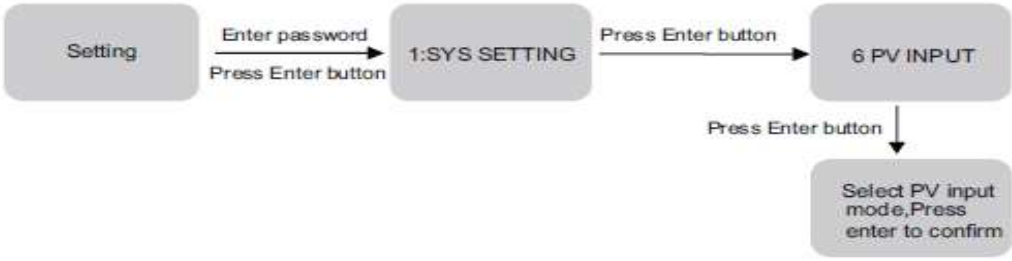
- 2、INQUIRE
  - 1、INV MODULE
  - 2、MODULE SN
  - 3、FIRMWARE
  - 4、RECORD
- 3、STATISTIC
  - 1、TIME STAT
  - 2、CONNE TIMES
  - 3、PEAK POWER
  - 4、E-TODAY
  - 5、E-MONTH
  - 6、E-YEAR
  - 7、E-TOTAL

For example,Before selecting the mode, you can set it up ac cording to the local power grid, PV input mode and battery type.

Power grid :

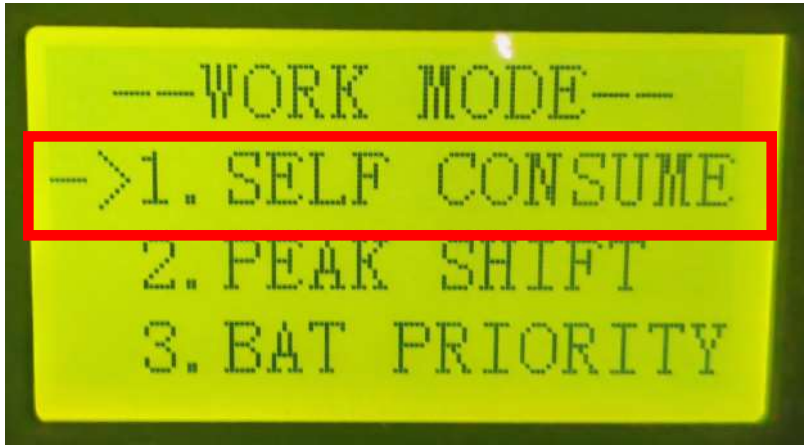


PVinput mode :



Battery parameters :

SYSTEM SEETING



1.WORK MODEL
(1). SELF CONSUME
(2). PEAK SHIFT
(3). BAT PRIORITY

1、WORK MODE
- 1、SELF CONSUME
- 2、PEAK SHIFT
- 3、BAT PRIORITY

HOW TO CHOICE THE WORK MODE?

If your home have no grid power connected with inverter

The load is supplied at first. √ SELF CONSUME

The battery is charged at first. √ BAT PRIORITY (EPS)

If your home have grid power connected with inverter

The load is supplied at first. √ SELF CONSUME

√ PEAK SHIFT(6 TIMES SETTING)

The battery is charged at first.

√ BAT PRIORITY

Note!
If set anti-Reverse function allowable, Once on the work mode of Self-use, Peak shift, battery priority, the system will not feed power to grid.

√ DISABLE: FEED POWER TO GRID

√ ENABLE: NOT FEED POWER TO GRID

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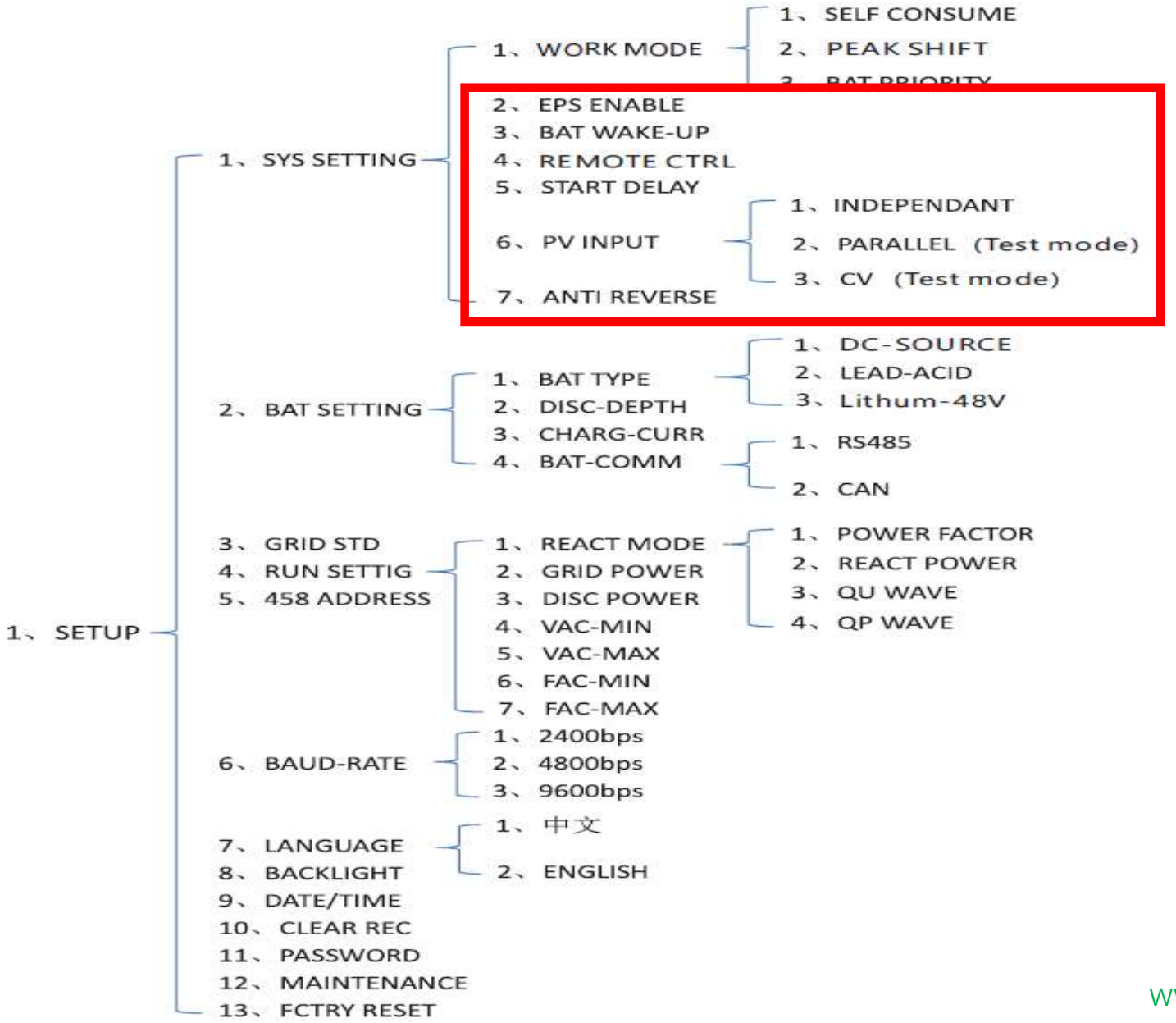
SYSTEM SEETING

2. EPS ENABLE (ENABLE)
3. BAT WAKE-UP(ENABLE)
4. REMOTE CTRL(ENABLE)
5. START DELAY(60 SECOND)
6. PV INPUT(INDEPENDENT)
7. ANTI REVERSE(ENABLE)
8. ARC ENABLE
9. BUTT ENABLE



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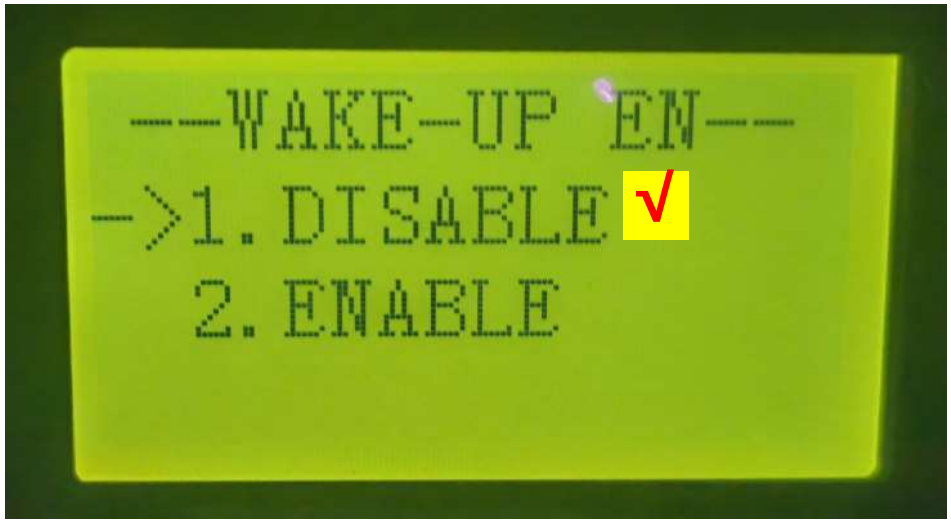
2、 EPS ENABLE

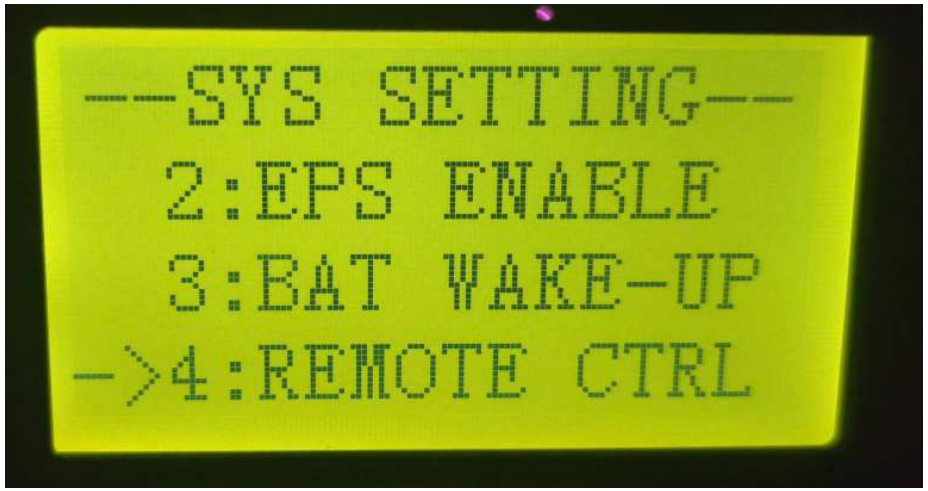
3、 BAT WAKE-UP (IF THE INVERTER CONNECTED THE LITHIUM BATTERY, CHOICE ENABLE)



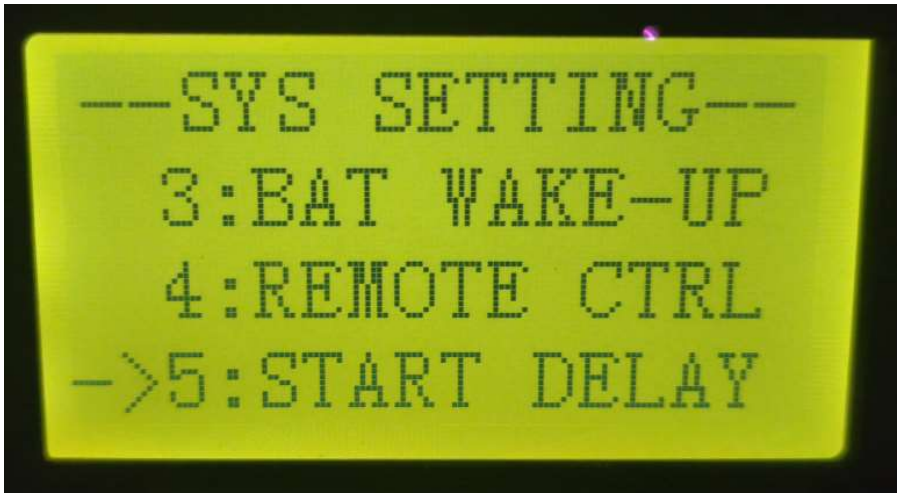
4、REMOTE CTRL (REMOTE CONTROL)

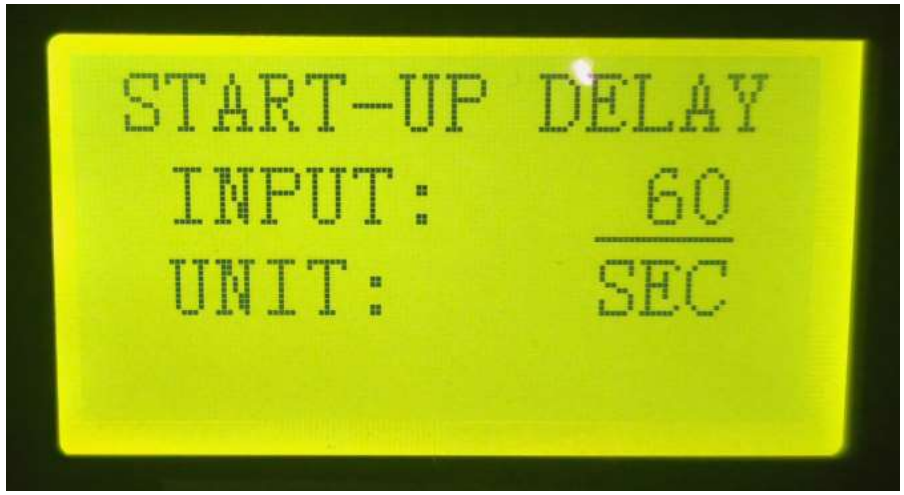
DISABLE: THE SETTING CAN NOT BE CHANGED THROUGH THE WIFI LOGGER
THE SOFTWARE CAN NOT BE UPDATE THROGHT THE WIFI LOGGER

ENABLE √



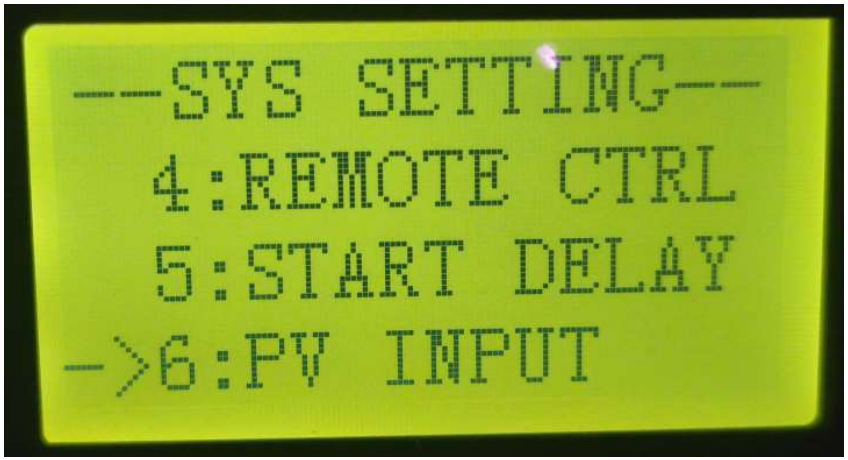
5、START DELAY



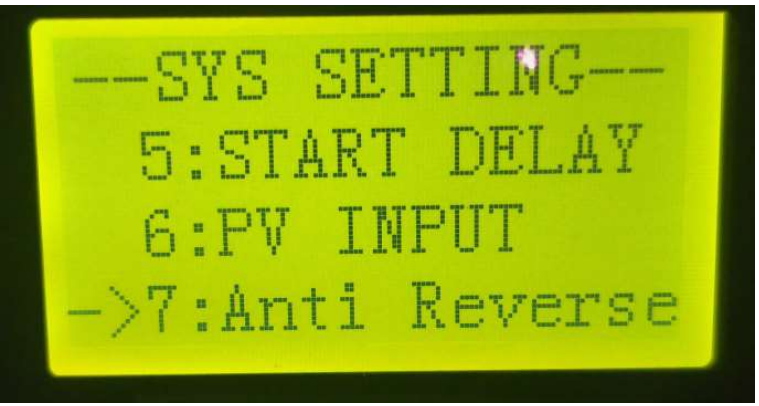


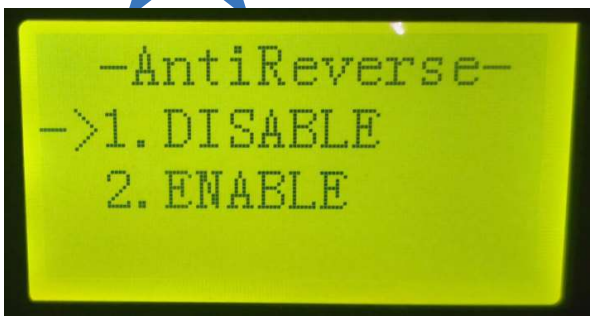
6、PV INPUT

- 1、INDEPENDANT √
- 2、PARALLEL (Test mode)
- 3、CV (Test mode)



7、ANTI REVERSE





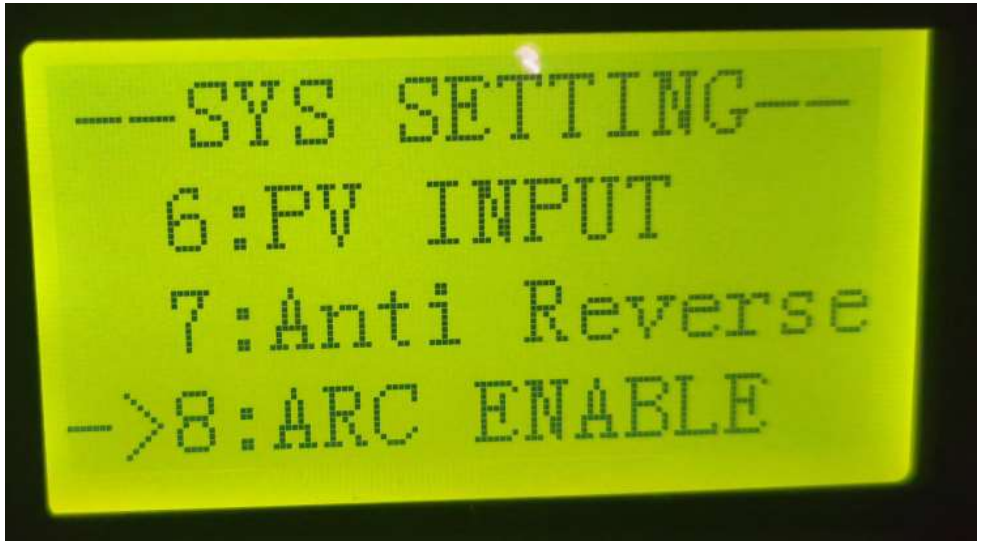
DISABLE: FEED POWER TO GRID

ENABLE: NOT FEED POWER TO GRID

Note!

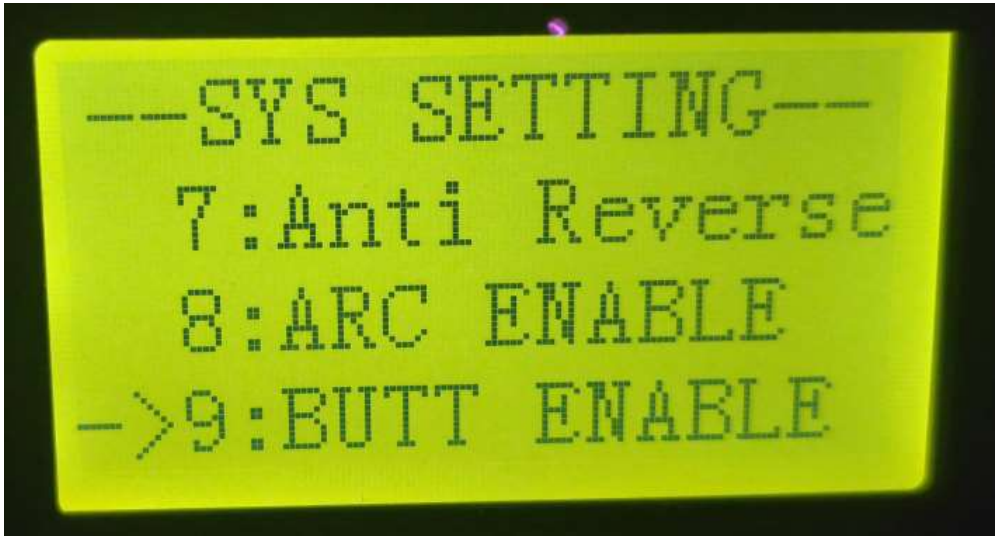
If set anti-Reverse function allowable Once on the work mode of Self-use, Peak shift, battery priority, the system will not feed power to grid.

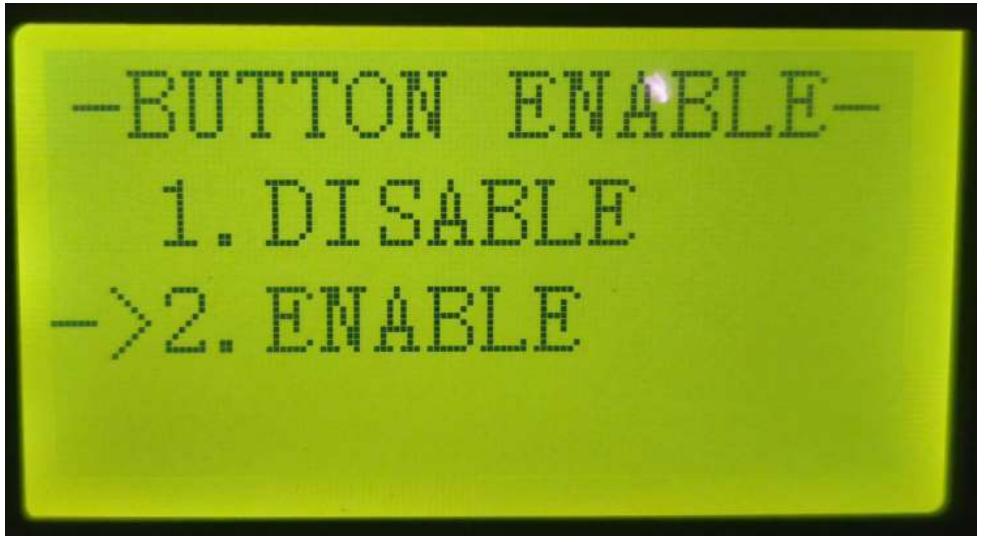
8. ARC ENABLE


--SYS SETTING--
6:PV INPUT
7:Anti Reverse
->8:ARC ENABLE

-ARC-
1.DISABLE
->2.ENABLE

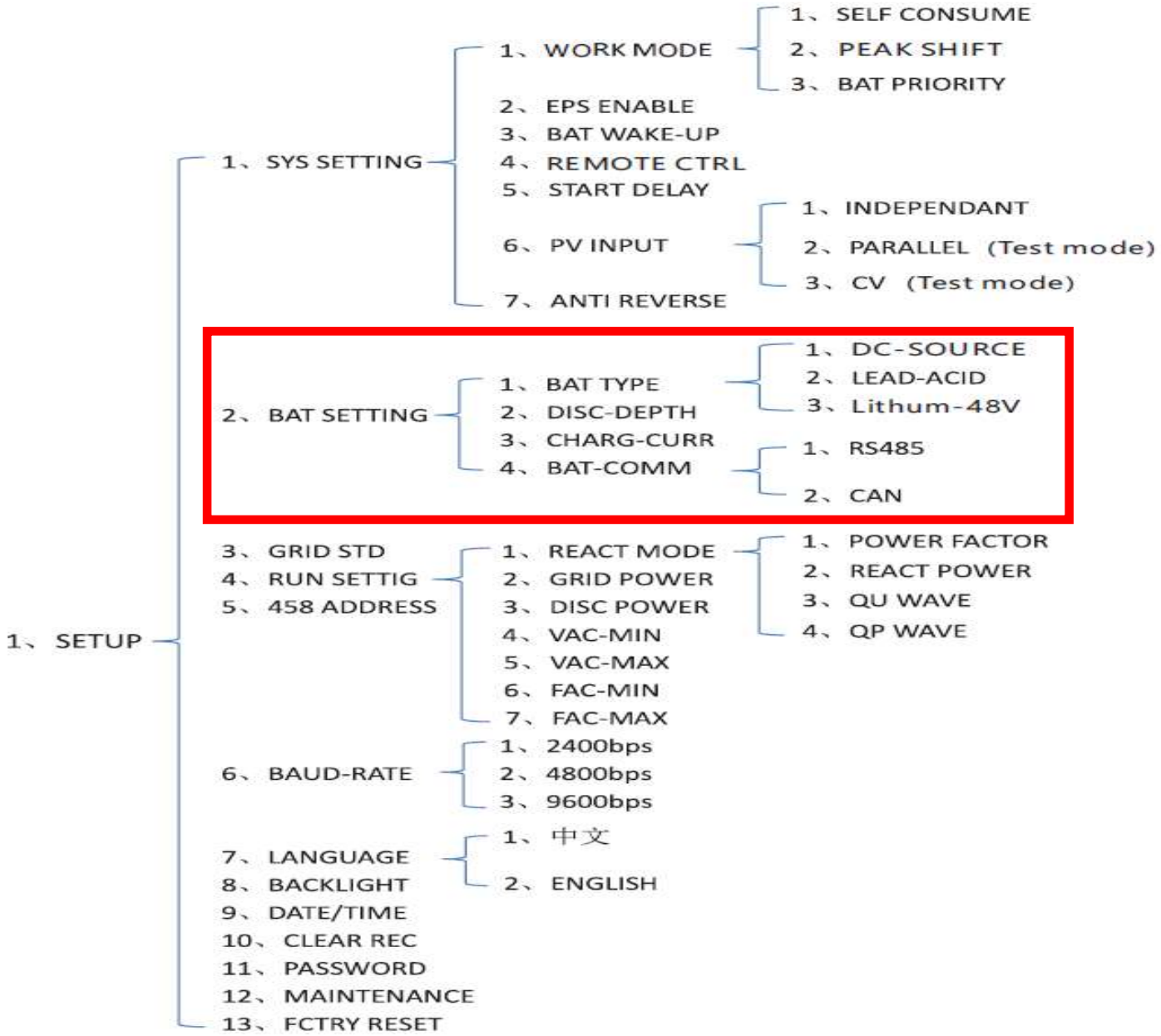
9. BUTT ENABLE





BATTERY SEETING

BAT TYPE(Lithium 40-60V)
DISC-DEPTH(80%-90%)
CHARGE-CURR(60A)
BAT-COMM(CAN)



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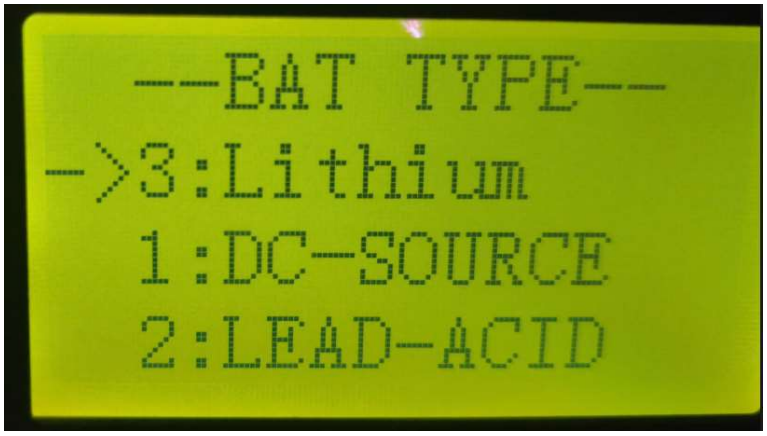
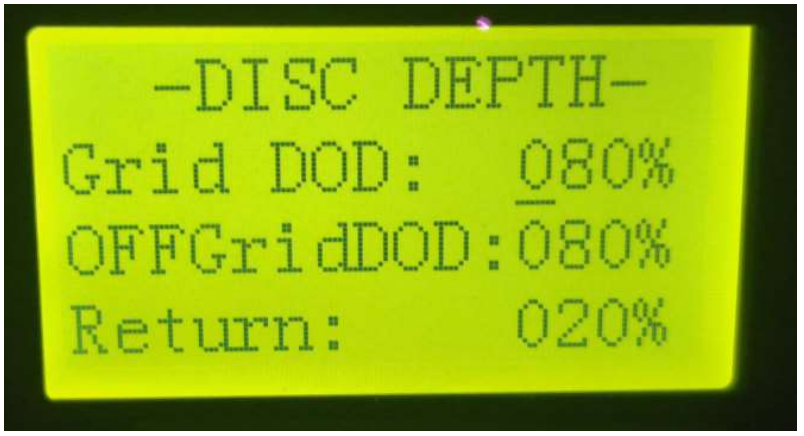
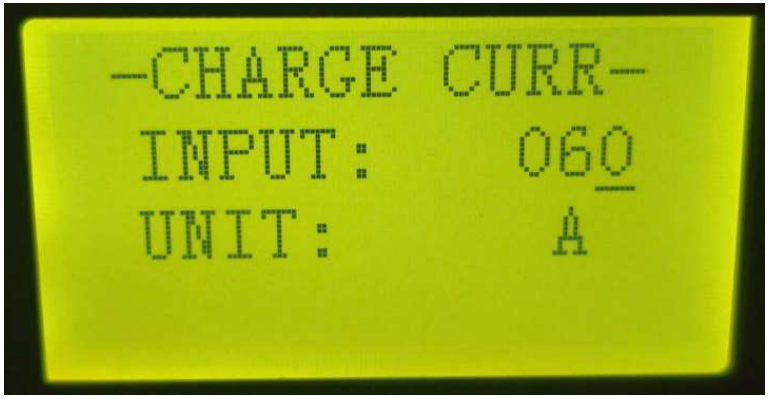






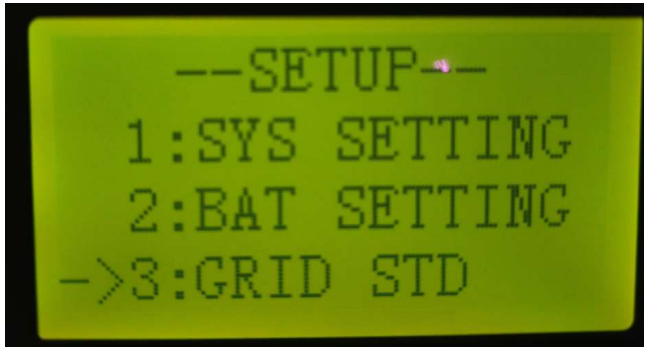
The recommended charging current is arround 60A(5kWh) and 80A (10kWh)

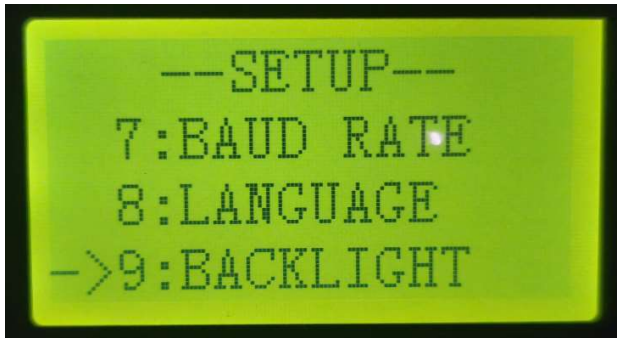
GRID&THE OTHER SEETING

GRID STD (Check the local grid standard)
GRID SET
RUN SETTING
485 ADDRESS
BAUD-RATE(9600bps)

Language
Back Light
Date/Time
Clear REC
Password

Maintenance
Factory Reset
Parallel Function(2 units)
Generator





GRID STD / GRID SET

Choose according to the actual situation of the user's country

Pls make the inverter setting with the battery power at first, without the grid power.

RUN SEETING

1. REACT MODEL
2. GRID POWER
3. DISC POWER ★
4. PV POWER
5. VAC-MIN
6. VAC-MAX
7. FAC-MIN
8.FAC-MAX
9. ACTIVE REP

Discharge Current setting:

8kW*100%=8kW/51.2V=156A

8kW*90%=7.2kW/51.2V=140A

8kW*80%=6.4kW/51.2V=125A(20kWh battery)

8kW*70%=5.6kW/51.2V=109A

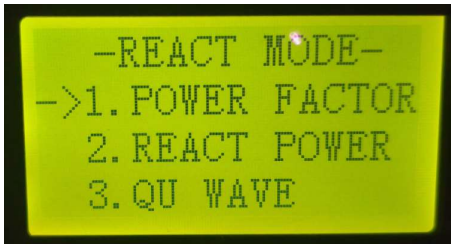
8kW*60%=4.8kW/51.2V=93A

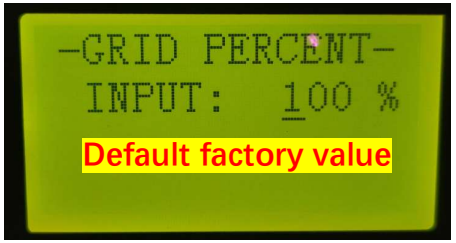
8kW*50%=4kW/51.2V=78A(10kWh battery)

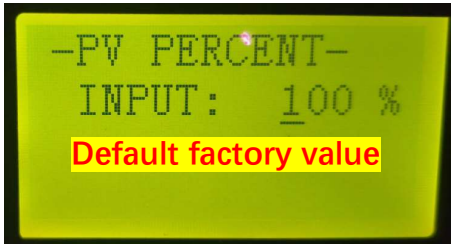
8kW*40%=3.2kW/51.2V=62A

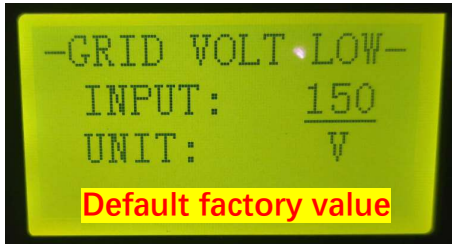
8kW*30%=2.4kW/51.2V=46A(5kWh battery)

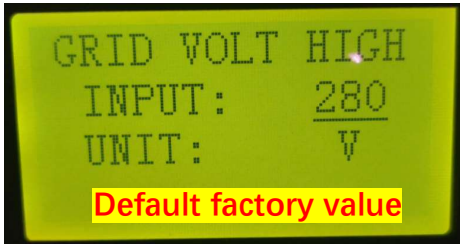
8kW* 20%=1.6kW/51.2V=31A

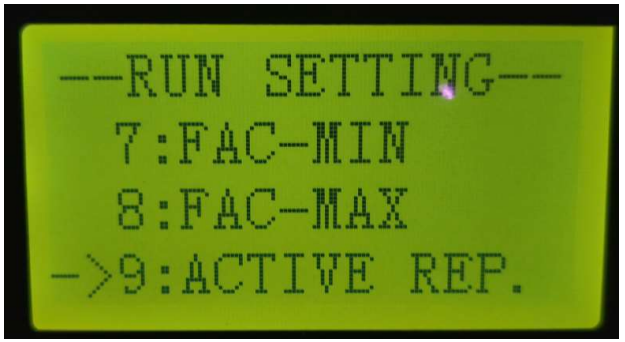












50 Hz: 45—50Hz
60 Hz: 55—65Hz

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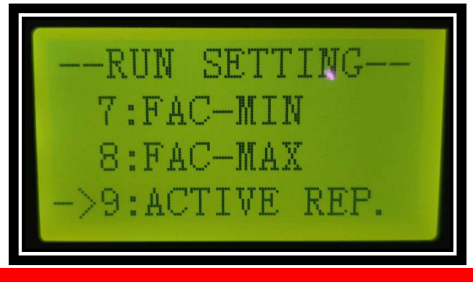
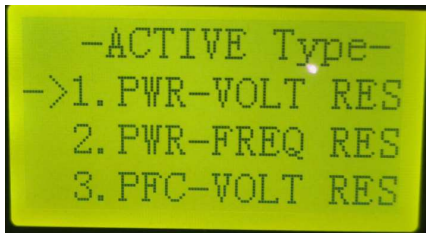
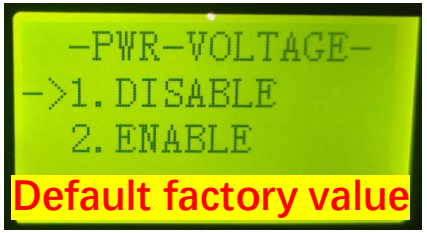
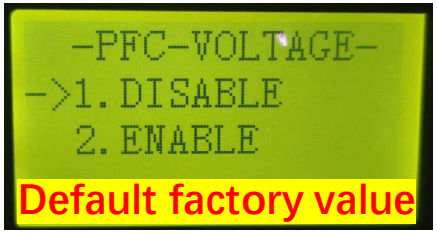
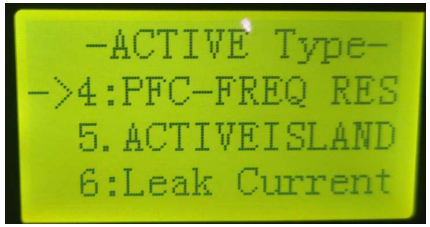

--RUN SETTING--
7:FAC-MIN
8:FAC-MAX
->9:ACTIVE REP.

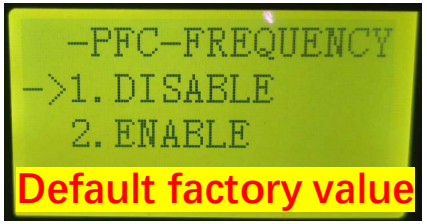

-ACTIVE Type-
->1.PWR-VOLT RES
2.PWR-FREQ RES
3.PFC-VOLT RES


-PWR-VOLTAGE-
->1.DISABLE
2.ENABLE
Default factory value

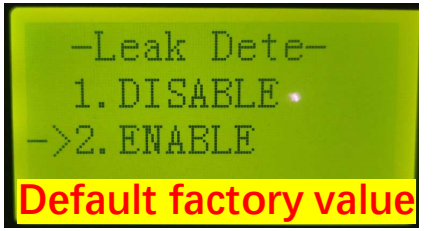
-PWR-FREQUENCY
->1.DISABLE
2.ENABLE
Default factory value

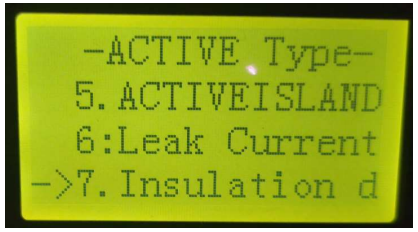

-PFC-VOLTAGE-
->1.DISABLE
2.ENABLE
Default factory value

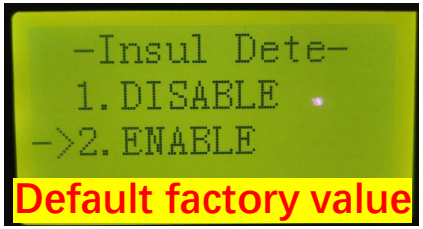

-ACTIVE Type-
->4:PFC-FREQ RES
5.ACTIVEISLAND
6:Leak Current


-PFC-FREQUENCY
->1.DISABLE
2.ENABLE
Default factory value

-ACTIVEISLAND-
1.DISABLE
->2.ENABLE
Default factory value


-Leak Dete-
1.DISABLE
->2.ENABLE
Default factory value


-ACTIVE Type-
5.ACTIVEISLAND
6:Leak Current
->7.Insulation d


-Insul Dete-
1.DISABLE
->2.ENABLE
Default factory value

--RUN SETTING--
8:FAC-MAX
9:ACTIVE REP.
->10:GRID RECONN

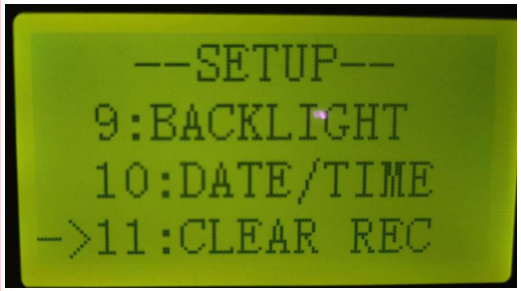
-GRID RECONNECT
T-INPUT: 100 s
Default factory value

--SETUP--
6:485 ADDRESS
7:BAUD RATE
->8:LANGUAGE

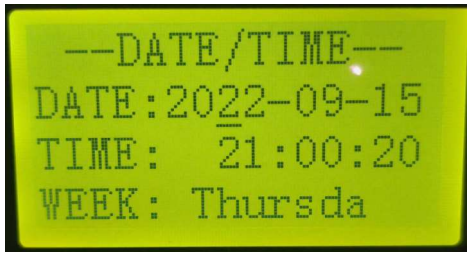
--485 ADDRESS--
INPUT: 1
Default factory value

--SELECT--
->3:9600 bps
Default factory value
2:4800 bps

--LANGUAGE--
1:中文
->2:ENGLISH


--SETUP--
9:BACKLIGHT
10:DATE/TIME
->11:CLEAR REC

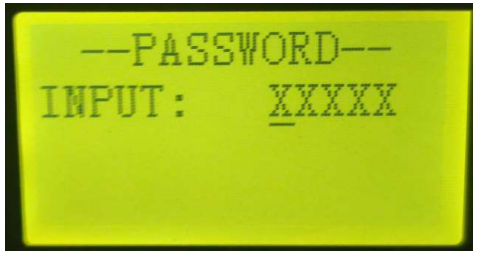
--LIGHT TIME--
INPUT: 20
UNIT: SEC
Default factory value


--DATE/TIME--
DATE:2022-09-15
TIME: 21:00:20
WEEK: Thursda

--DEL REC--
->1:CANCEL
2:CONFIRM
Default factory value

--SETUP--
12:PASSWORD
13:MAINTENANCE
->14:FCTRY RESET

--PASSWORD--
OLD: XXXXX
NEW: XXXXX
CONFIRM: XXXXX

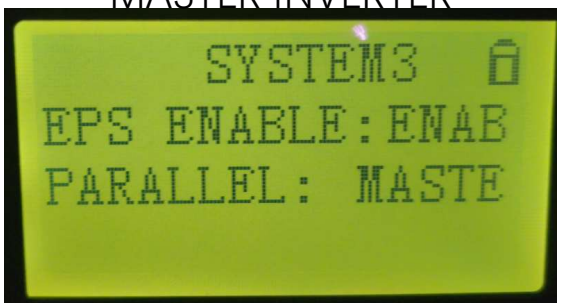

--PASSWORD--
INPUT: XXXXX

-FACTORY RESET-
->1:CANCEL
2:CONFIRM
Default factory value

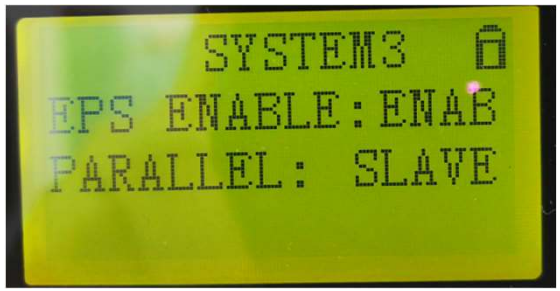
How to parallel and set the 2 units inverters

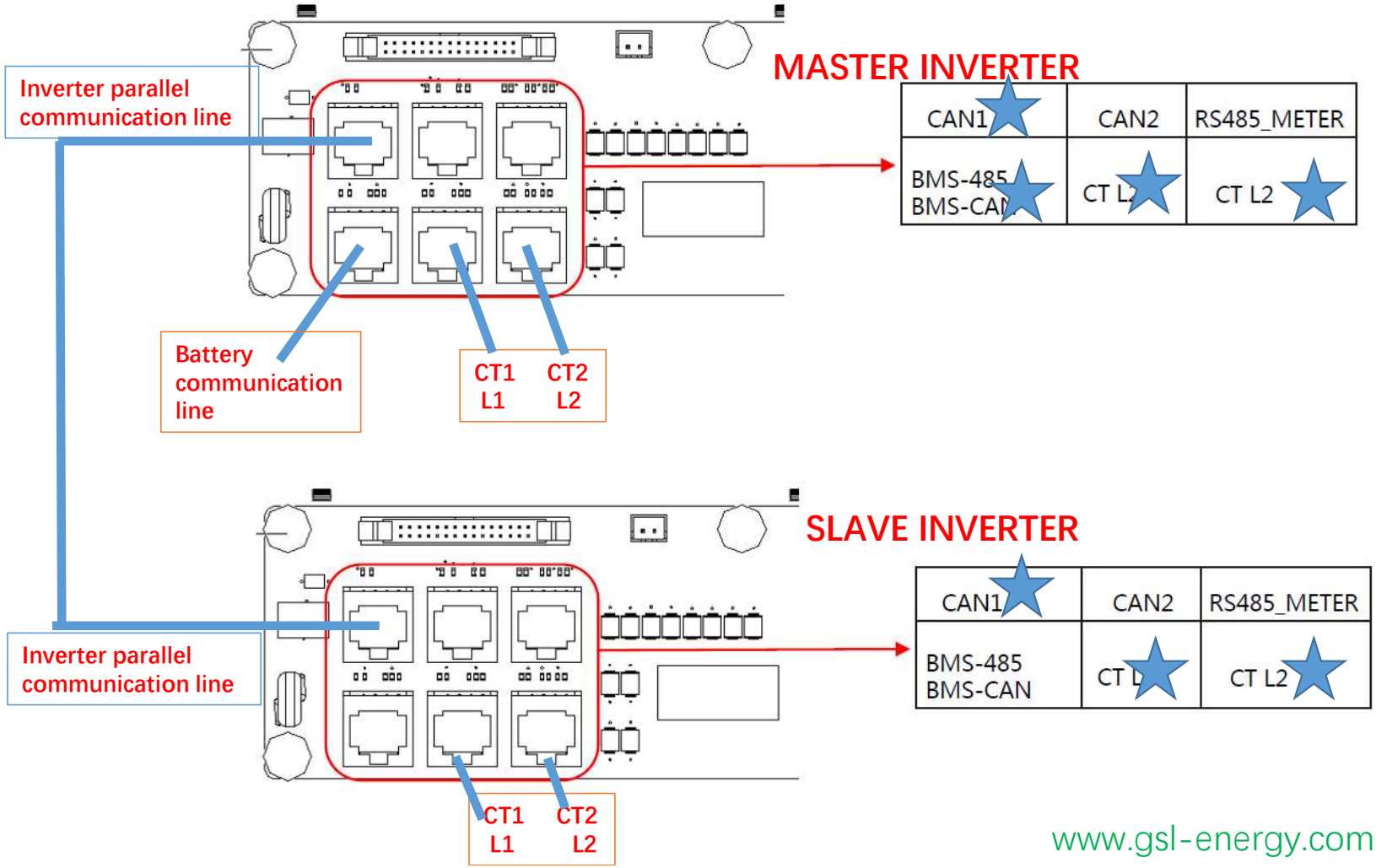
Except for the parallel setting, follow the instructions on the next page to operate the Settings, the other Settings in the master and slave inverters must be consistent.

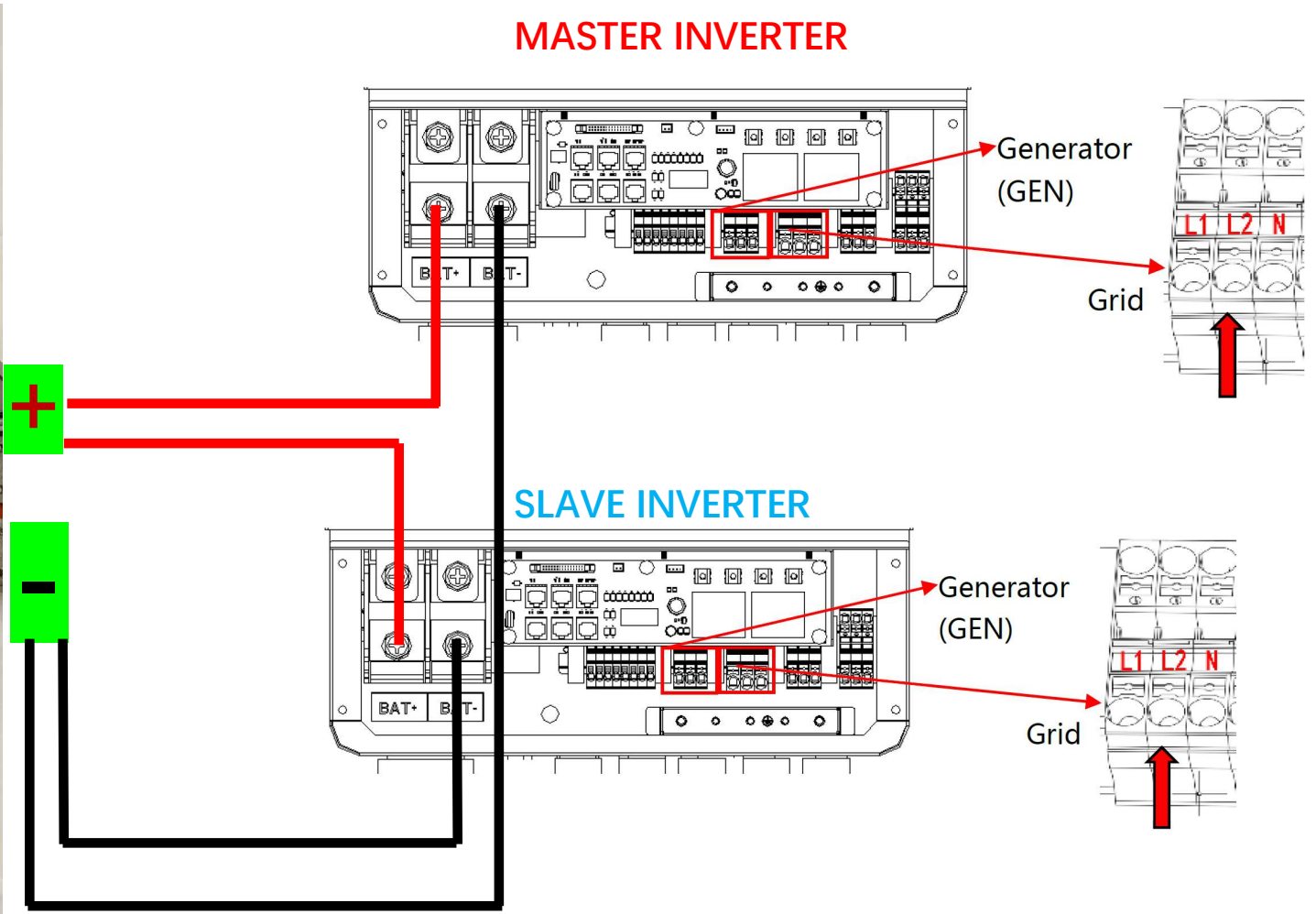
MASTER INVERTER



SLAVE INVERTER







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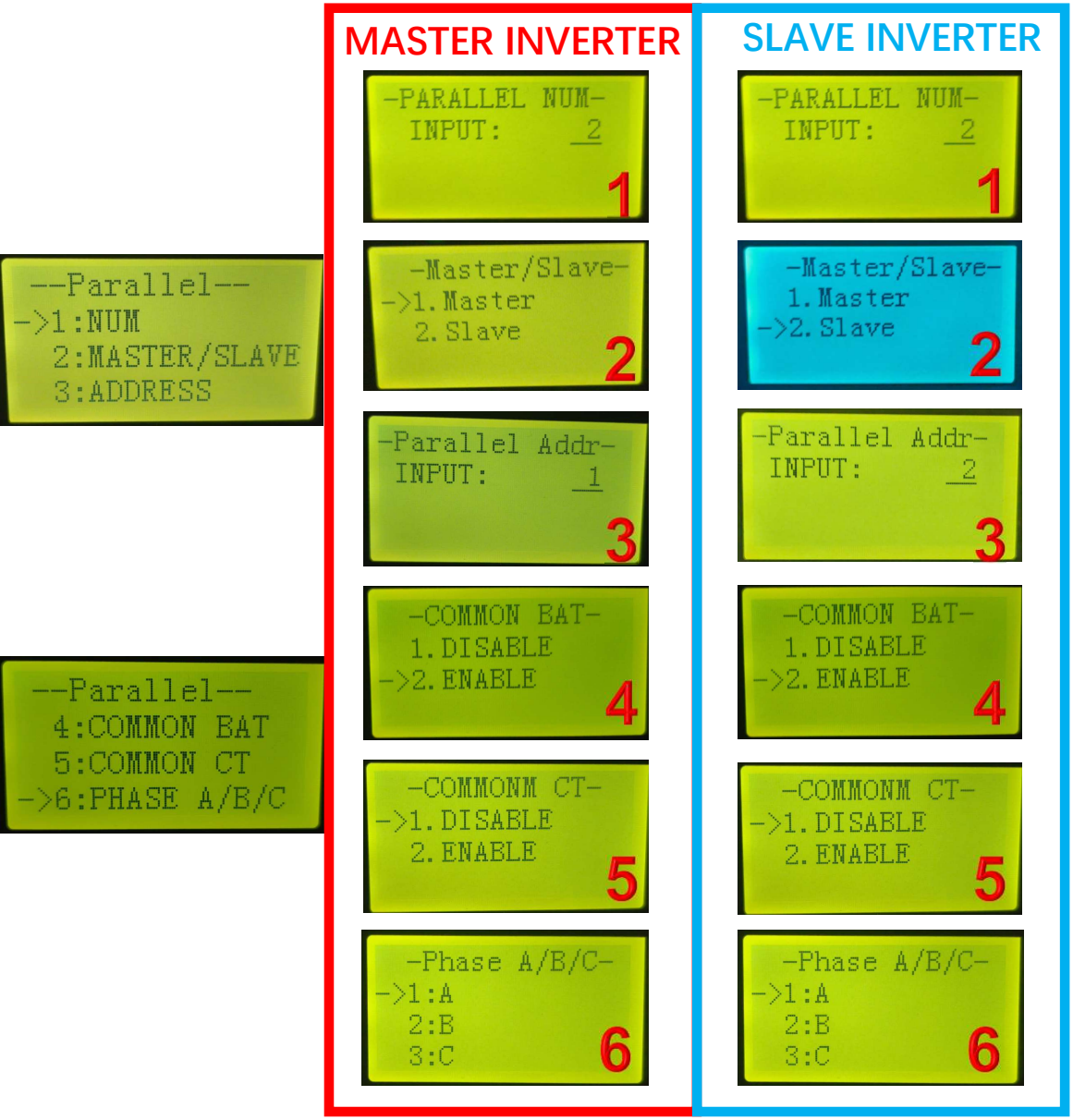

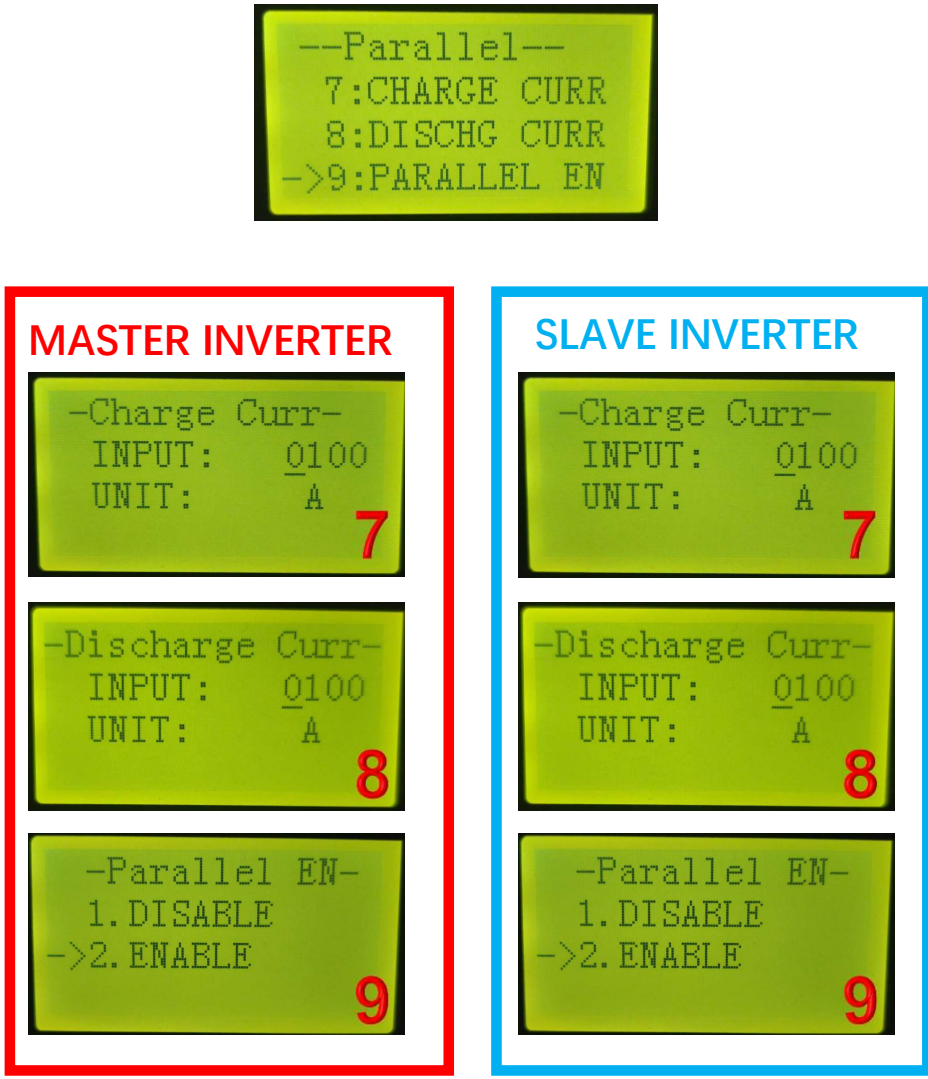

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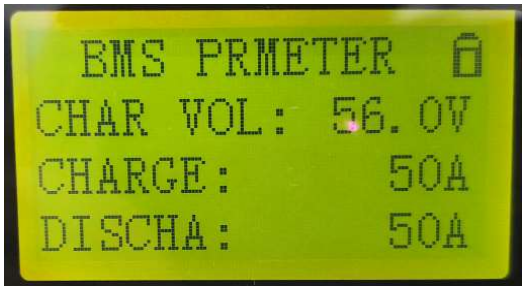
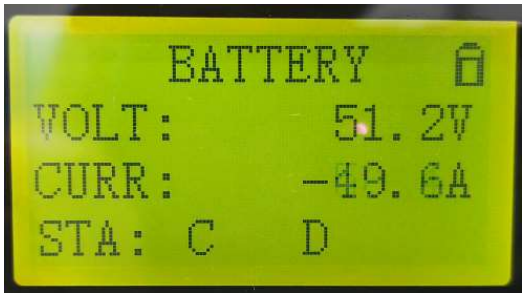
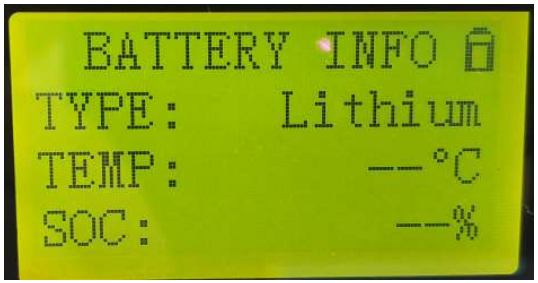
MASTER INVERTER

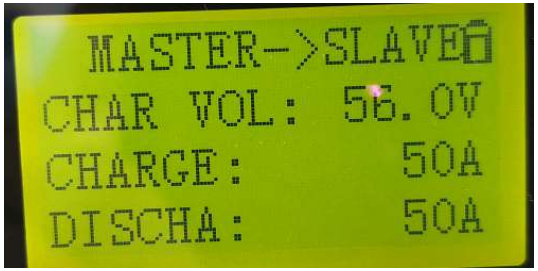


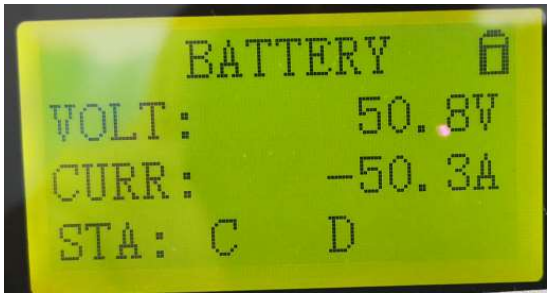


THE BATTERY IS SUCCESSFUL COMMUNICATION CONNECTED WITH THE 2 UNITS PARALLELED CONNECTION SUCCESSFUL INVERTERS

SLAVE INVERTER

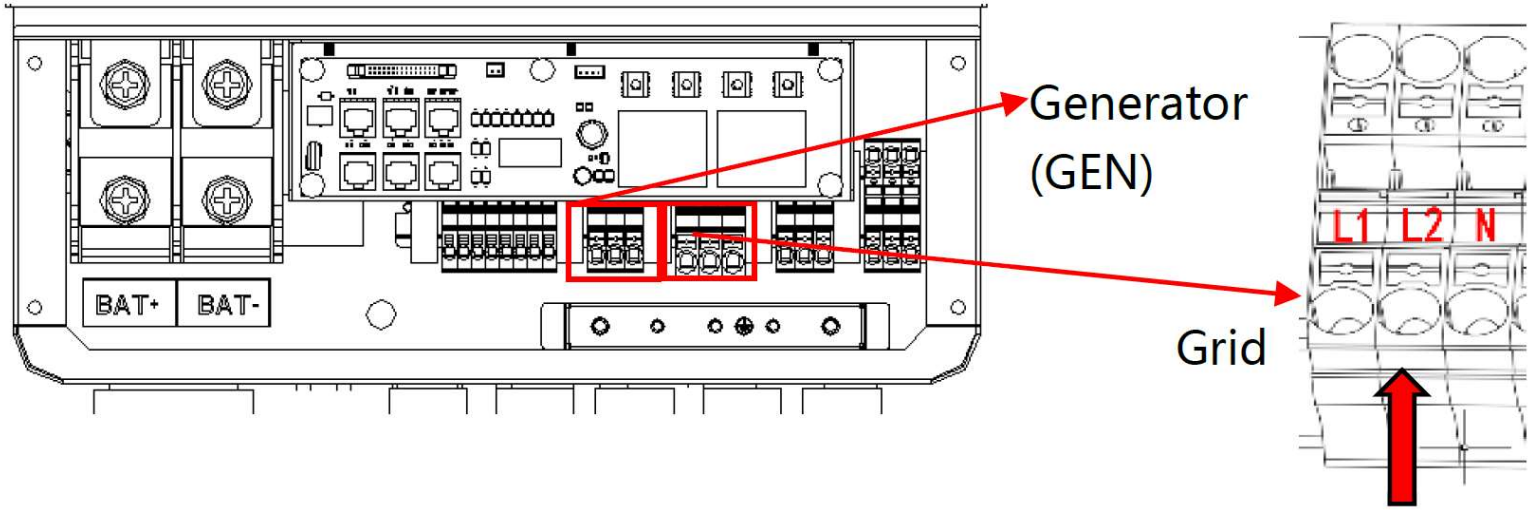






How to connect and set the generator with inverter

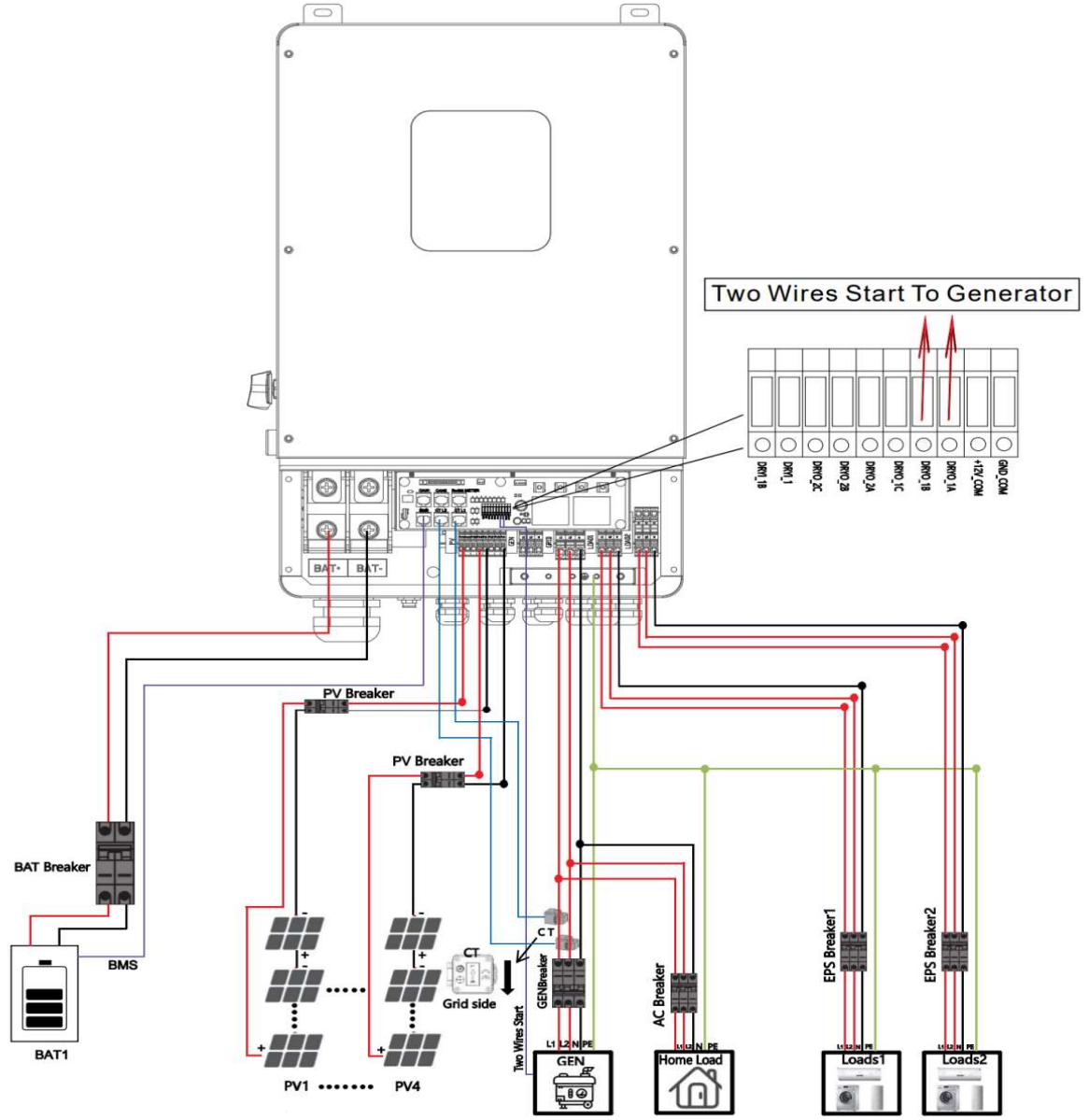
MASTER INVERTER



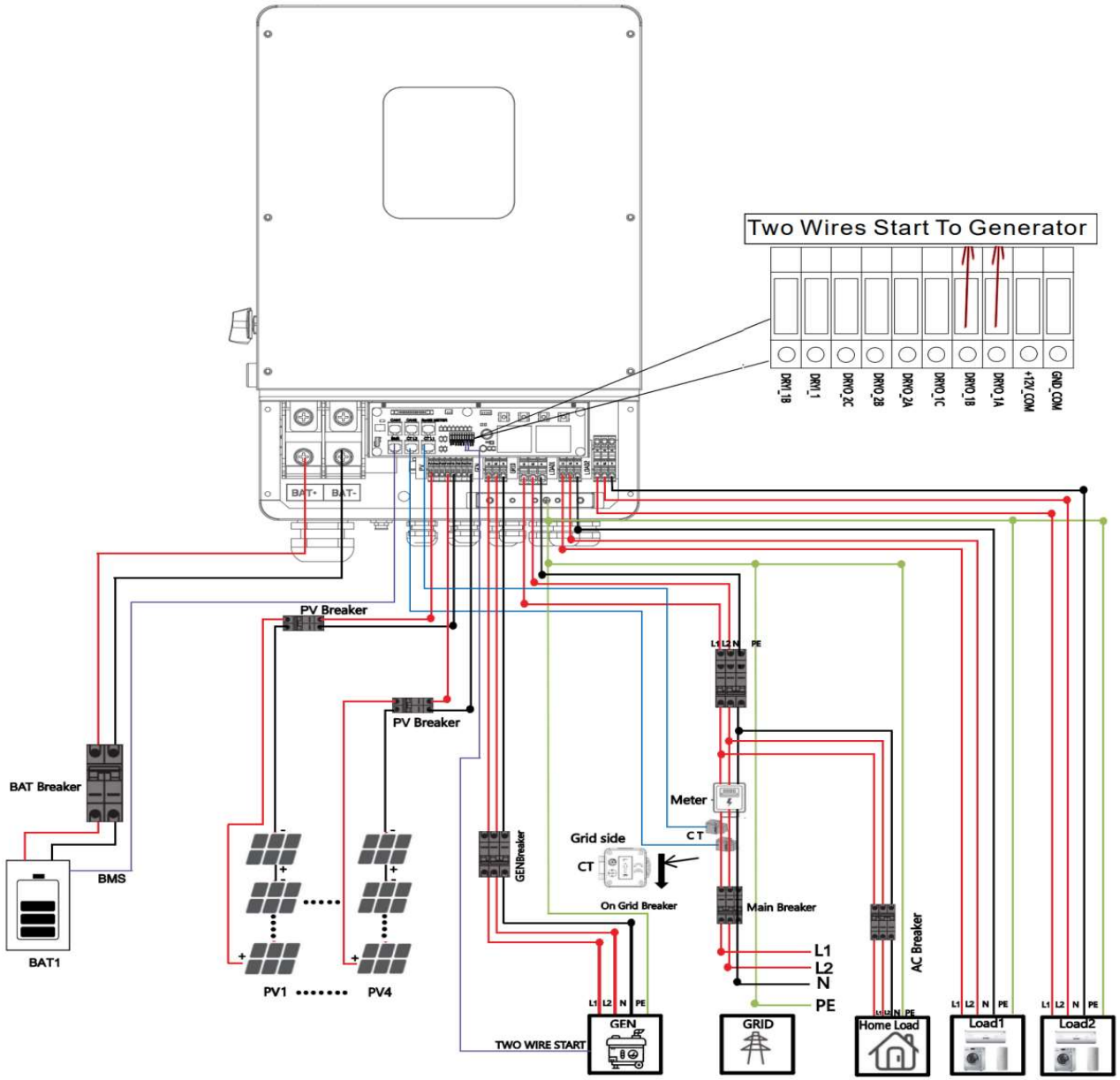
Generator Use Operation Guide

11.1 Generator Use Diagram

1) The Generator is connected to the grid pot of the inverter. The connecting cable shall be covered with CT. It is used in some off network situations. The system diagram is as follows.



2. The Generator is normally connected to the Generator port. The connecting cable between the Generator and the inverter does not need to be covered with CT. The connection line of the power grid port should be connected with CT. The system diagram is as follows.



11.2 Generator Operation Notes

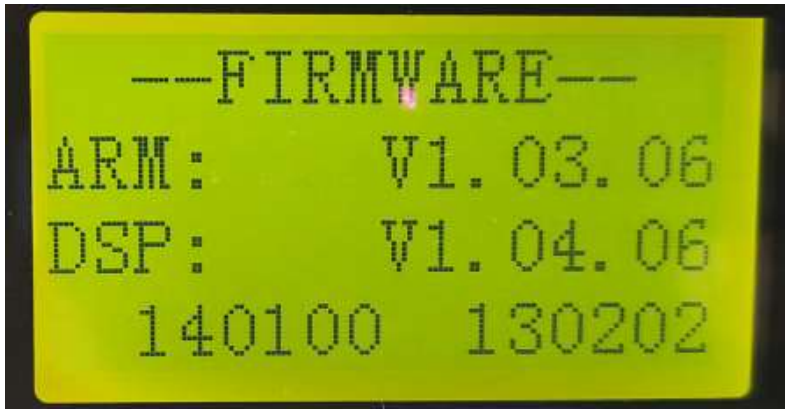
1) The two wire start signal **DRYO_1A** and **DRYO_1B** of the Generator is used to automatically control the start and stop of the Generator.

2)Make sure the inverter units software version support Generator function. **USER->INQUIRE->FIRMWARE**

•When the generator is used in inverter parallel situation, the two wires start signal is only needed to be connected to the master unit. The wiring and the setting of the Generator should be exactly same.

4)Please check the diagram above .

FIRMWARE
ARM: V1.XX.XX
DSP: V1.XX.XX



Interface	Description
Generator . 1. START SOC. 2. STOP SOC 3. ChgCurrToBAT 4. MAX RUN TIME 5. COOLDOWN 6. CONTRL 7. POWER	This interface shows Generator setting 1.When the SOC of battery is lower than the setpoint, the Generator drycontact is enabled and Generator Manual operation is disabled, the connected Generator will be started. 2. When the SOC of battery is higher than the setpoint, the Generator drycontact is enabled and Generator Manual operation is disabled, the connected Generator will be stopped. 3. It indicates the maximum current that the inverter charges the battery from Generator. 4. It indicates the longest time Generator can run in one day, when time is up, the Generator will be turned off. The value 240 means 24hours in which state the Generator will not be shut down all the time. The unit is 0.1 hour. 5. It indicates the waiting time of the Generator to restart after it has reached the running time.The unit is 0.1 hour. 6. Refer to 11.3.2 **CONTRL.** **7.** Rated power of Generator.

负载分为感性负载、阻性负载。
感性负载：即和电源相比当负载电流滞后负载电压一个相位差时负载为感性（如负载为电动机、变压器）。
柴油发电机功率= 负载功率* 5倍

阻性负载：即和电源相比当负载电流负载电压没有相位差时负载为阻性（如负载为白炽灯、电炉）。
柴油发电机功率=负载功率*1.5倍

Load is divided into inductive load and resistive load. Inductive load: that is, when the load current lags the load voltage by a phase difference compared with the power supply, the load is inductive (such as the load for the motor, transformer).
Diesel generator power = load power * 5 times

Resistive load: that is, compared with the power supply when the load current load voltage without phase difference when the load is resistive (such as load for incandescent lamp, electric furnace).
Diesel generator power = load power *1.5 times

11.3.2 CONTRL

Interface	Description
GEN CONTROL 1.Generator En 2.Charge En 3.DryContact 4.Manual En 5.ManualCmd En 6.Connect Grid	This interface shows Generator CONTRL. 1. Enable control of the Generator function. 2. Generator Charge Enable control 3. If the user wants the Generator to be automatically controlled to start and stop through the dry contact,Enable it. 4. If the user wants the Generator to be controlled manually,Enable it. 5. The on/off command in manual control mode , 6. Connect the diesel Generator to the grid input port.

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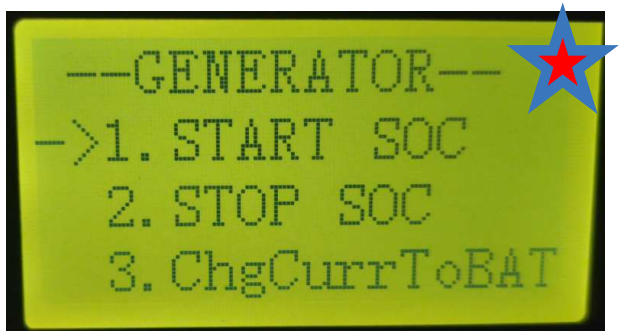

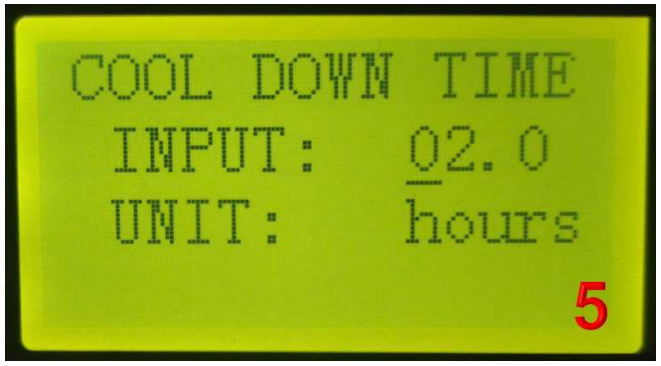

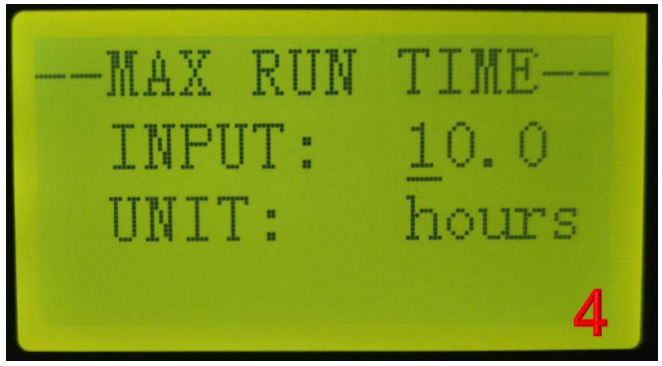

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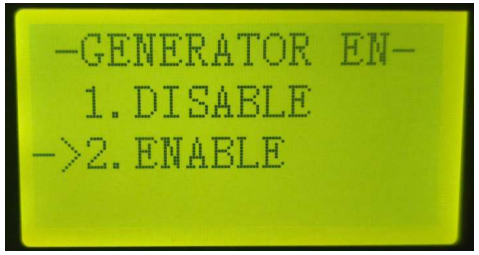
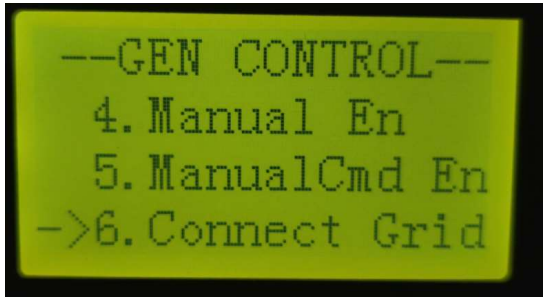
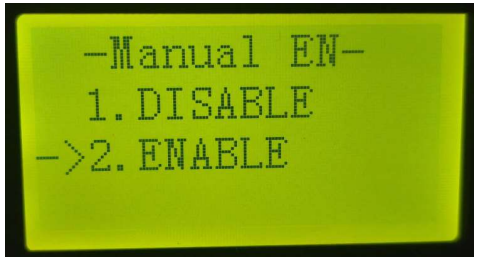
--GEN CONTROL--
->1.Generator En
2.Charge En
3.DryContact

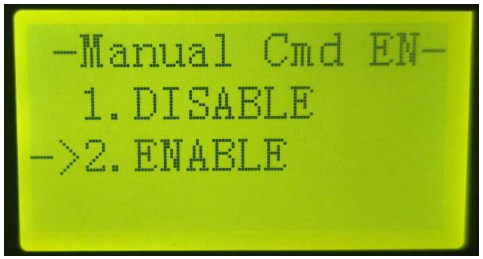

-GENERATOR EN-
1.DISABLE
->2.ENABLE

--GEN Chg EN--
1.DISABLE
->2.ENABLE

-DryContact EN-
1.DISABLE
->2.ENABLE

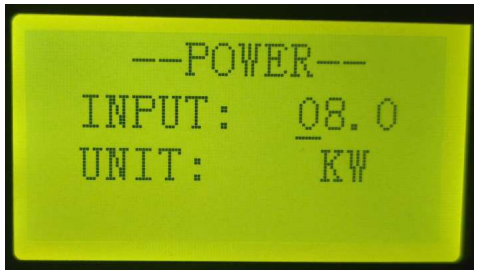

--GEN CONTROL--
4.Manual En
5.ManualCmd En
->6.Connect Grid


-Manual EN-
1.DISABLE
->2.ENABLE


-Manual Cmd EN-
1.DISABLE
->2.ENABLE

Connect GridPort
->1.DISABLE
2.ENABLE

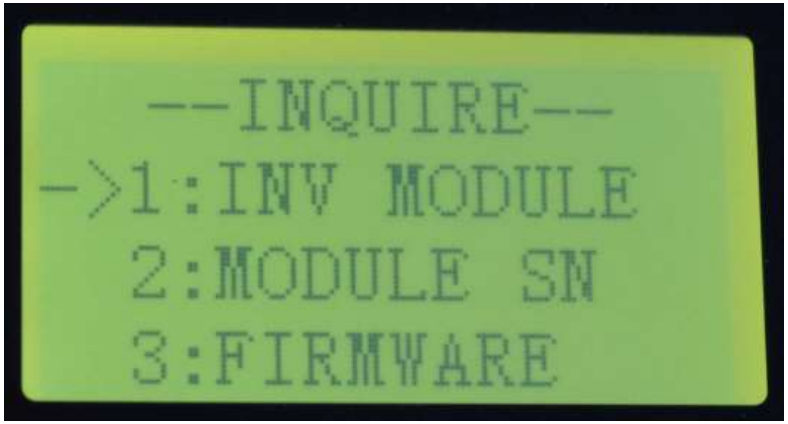
--GENERATOR--
5.COOLDOWN
6.CONTROL
->7.POWER

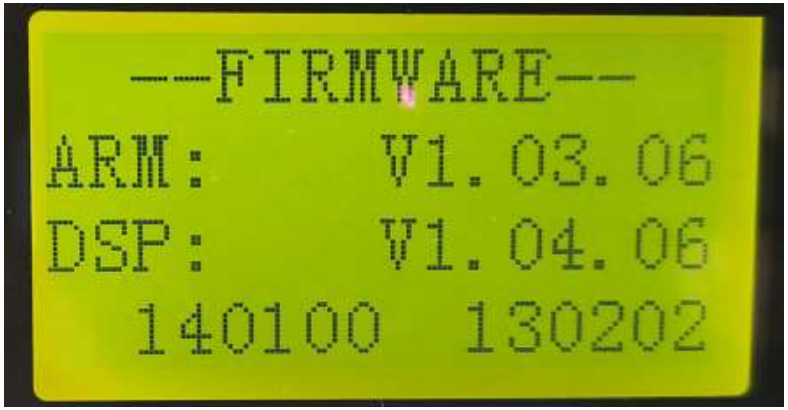

--POWER--
INPUT: 08.0
UNIT: KW

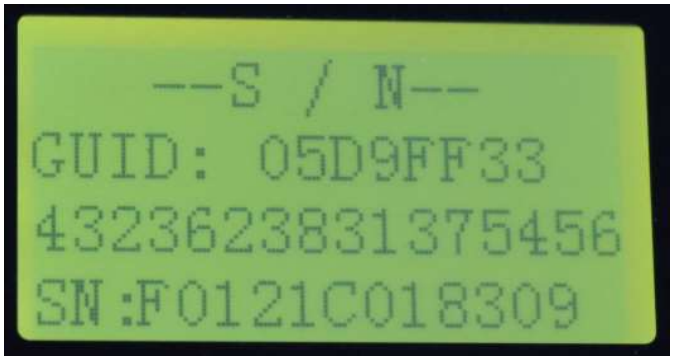
6. CONTROL

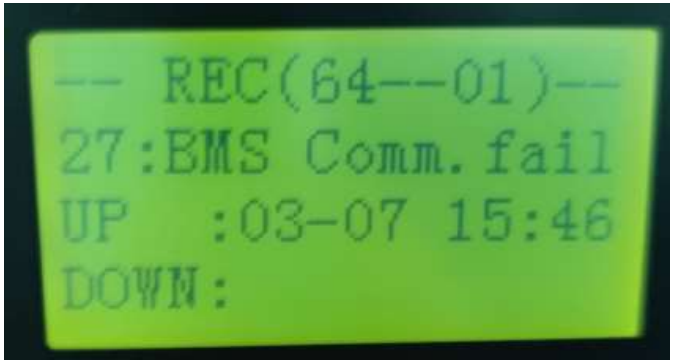
INQUIRE

1. INV MODULE
2. MODULE SN
3. FIRMWARE
4. RECORD









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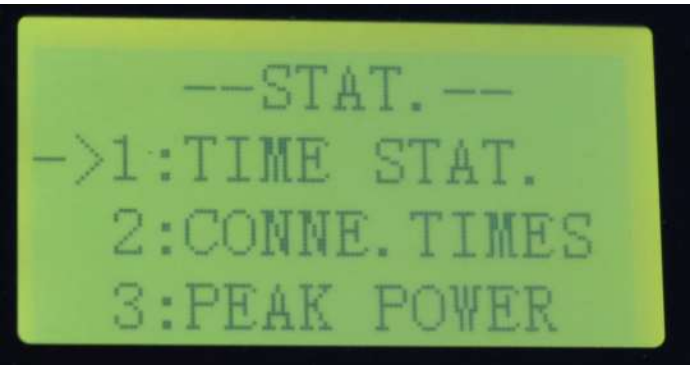
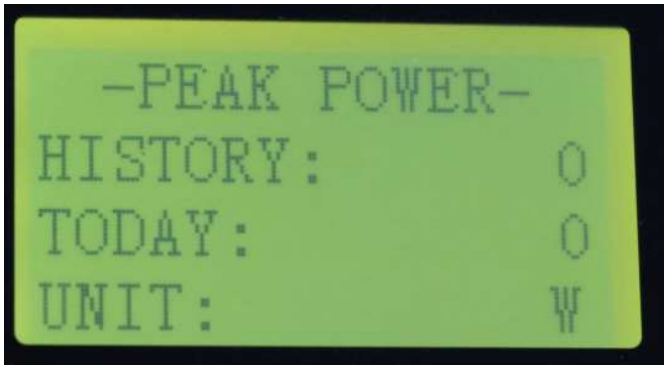
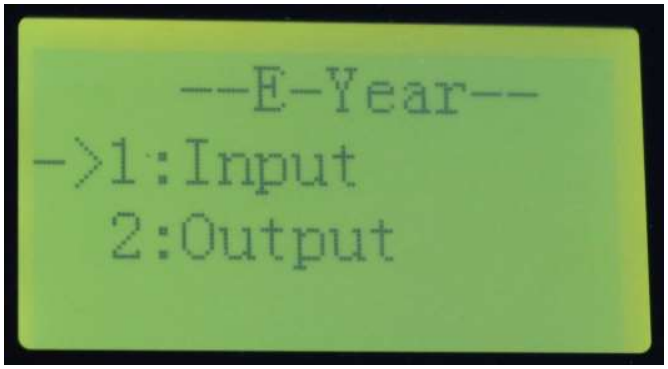
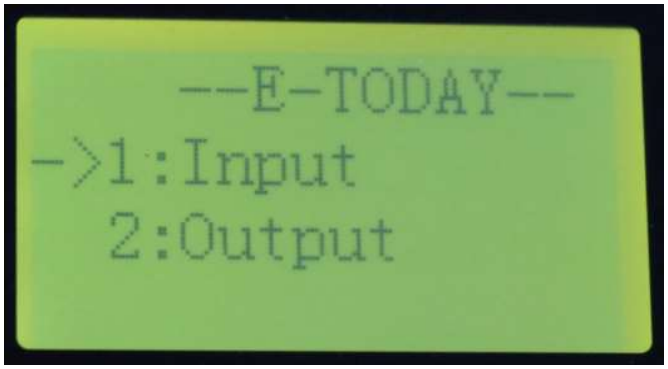
STATISTIC

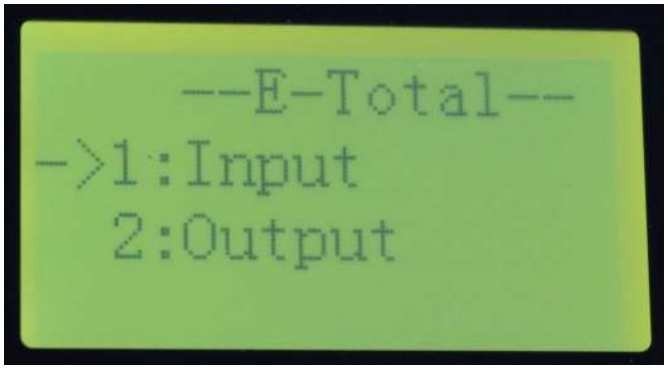
1. TIME STAT
2. CONNE TIMES
3. PEAK POWER
4. E-TODAY
5. E-MONTH
6. E-YEAR
7. E-TOTAL

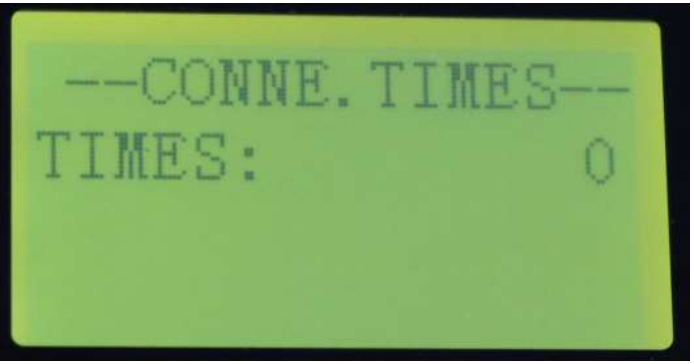


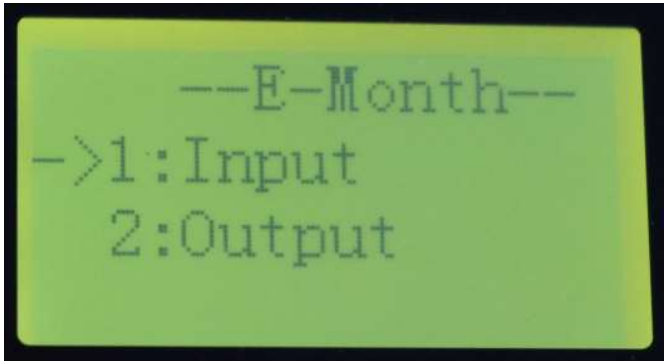












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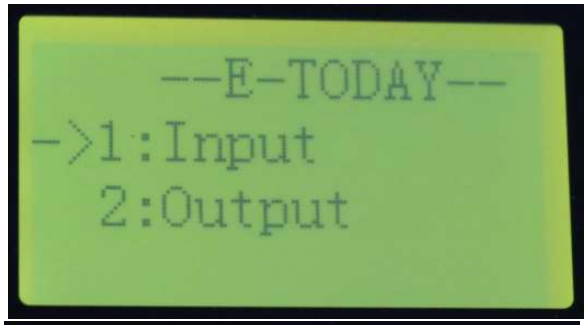
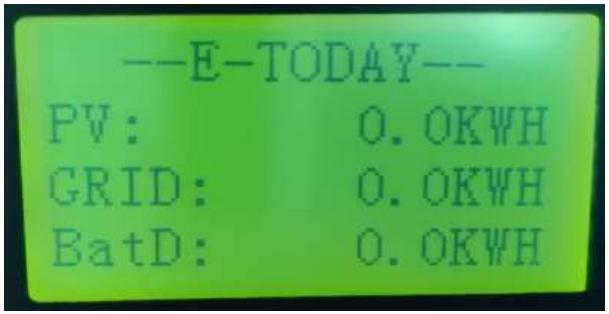
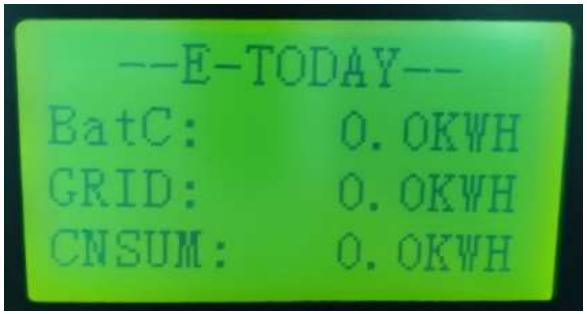
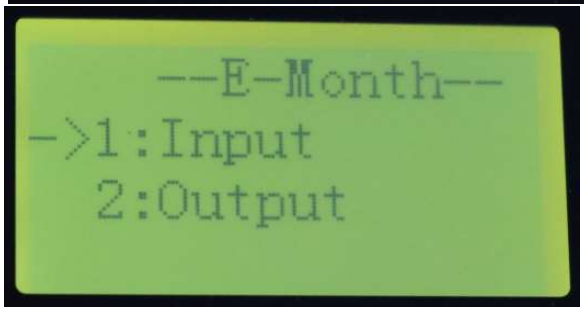

--E-TODAY--
->1:Input
2:Output

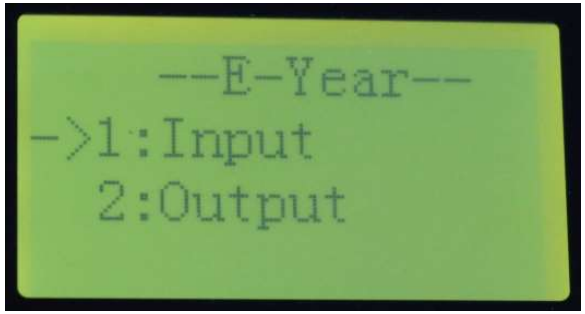

--E-TODAY--
PV: 0.0KWH
GRID: 0.0KWH
BatD: 0.0KWH

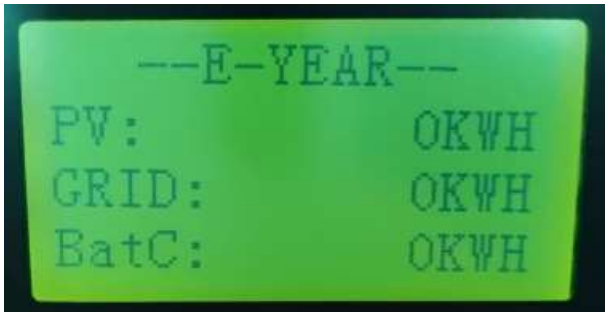

--E-TODAY--
BatC: 0.0KWH
GRID: 0.0KWH
CNSUM: 0.0KWH

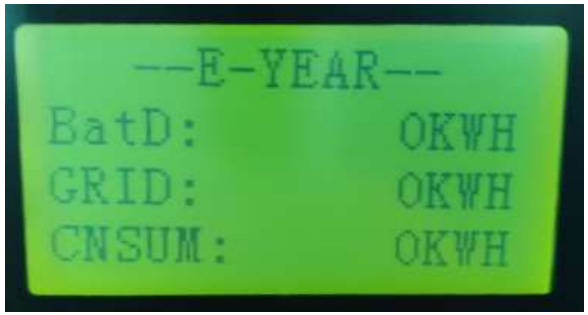

--E-Month--
->1:Input
2:Output

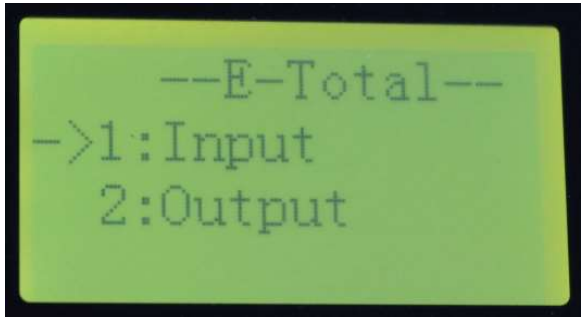
--E-MONTH--
PV: OKWH
GRID: OKWH
BatD: OKWH

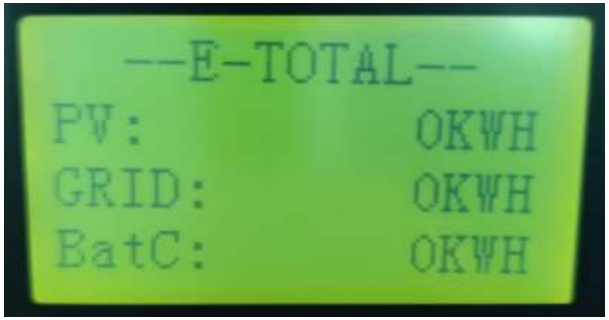
--E-MONTH--
BatC: OKWH
GRID: OKWH
CNSUM: OKWH

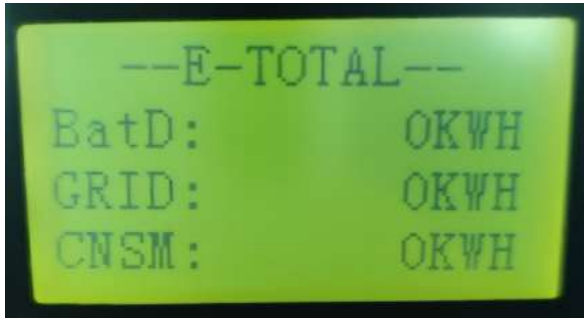

--E-Year--
->1:Input
2:Output


--E-YEAR--
PV: OKWH
GRID: OKWH
BatC: OKWH


--E-YEAR--
BatD: OKWH
GRID: OKWH
CNSUM: OKWH


--E-Total--
->1:Input
2:Output


--E-TOTAL--
PV: OKWH
GRID: OKWH
BatC: OKWH


--E-TOTAL--
BatD: OKWH
GRID: OKWH
CNSM: OKWH

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GSL **10kwh 48v 200ah** Power Storage Wall Lifepo4 Lithium Battery For Solar System

20KVA 3PHASE 50KWH Lifepo4 Battery HYBRID Solar Energy Storage System

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