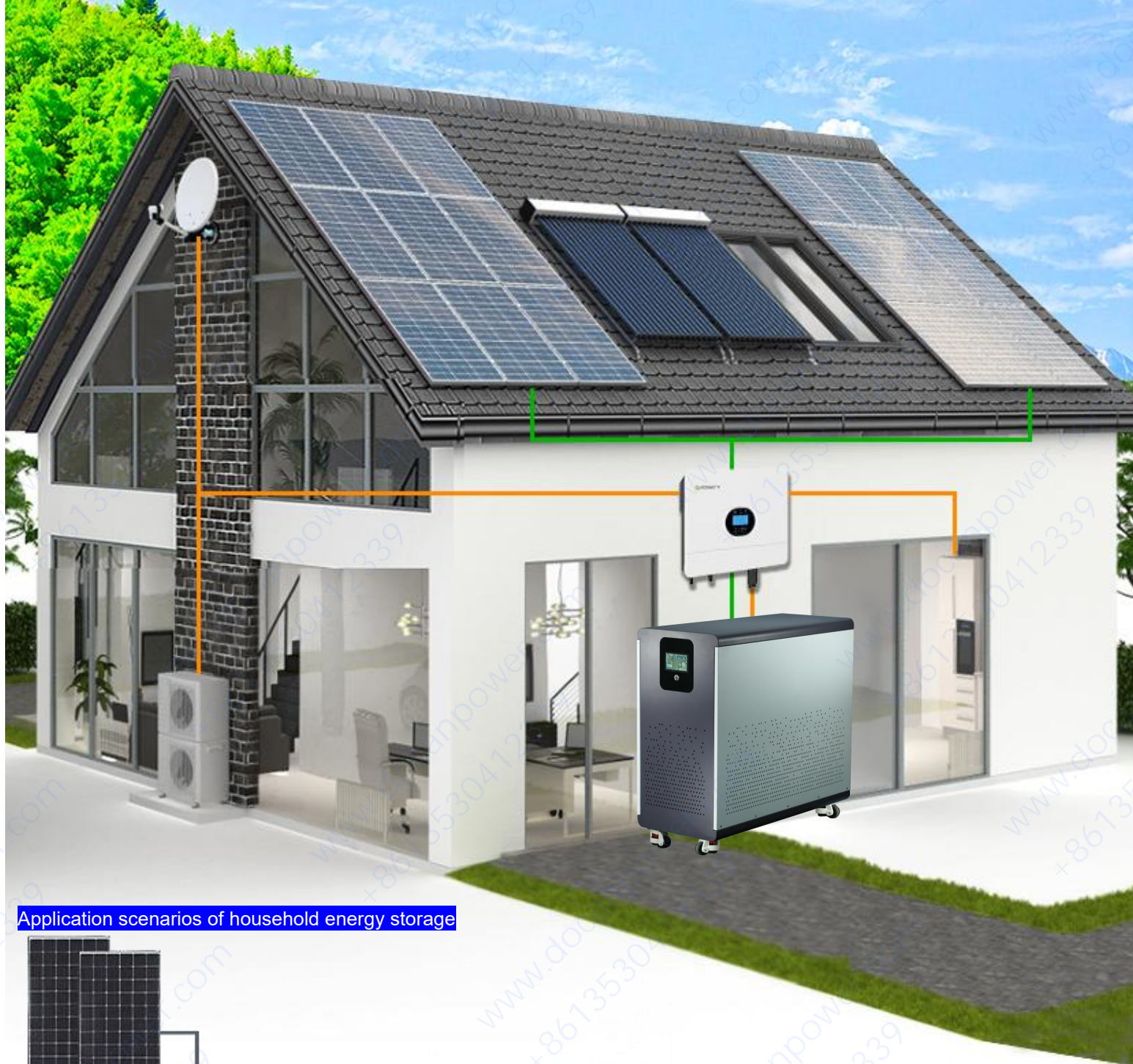




Docan LN Series Indoor Solar Home LiFePO4 Battery Pack – User Manual





Application scenarios of household energy storage



1.Product Description

Lithium iron phosphate batteries are one of the independently designed and developed series of household energy storage products. It features long cycle life, high safety standards for BMS software protection, sturdy casing, exquisite appearance, and easy installation. It is widely used in energy storage systems for off grid inverters, grid connected inverters, and hybrid inverters



NO.	Name	Funtion
1	Positive battery terminal	Battery output positive pole
2	Negative battery terminal	Battery output negative pole
3	Air Switch	Control the on and off of the battery
4	Power switch	System power switch
5	SOC	The number of lights represents the percentage of battery life
6	ALM/RUN	Alarm indicator/normal operation indicator
7	ADD	Communication dialing number
8	RST	Reset button (to be operated under professional guidance)
9	RS232	Optional, only physical interfaces reserved
10	RS485	Support communication with inverters (485 protocol) and upper computer communication
11	CAN	Inverter CAN communication interface
12	RS485A/B	Battery parallel communication interface
13	DRY	dry contact
14	WIFI	WIFI interface, check the WiFi section instructions after installing WiFi
15	LED touch screen display	Real time display of battery status on touch LCD screen

2. Product Description

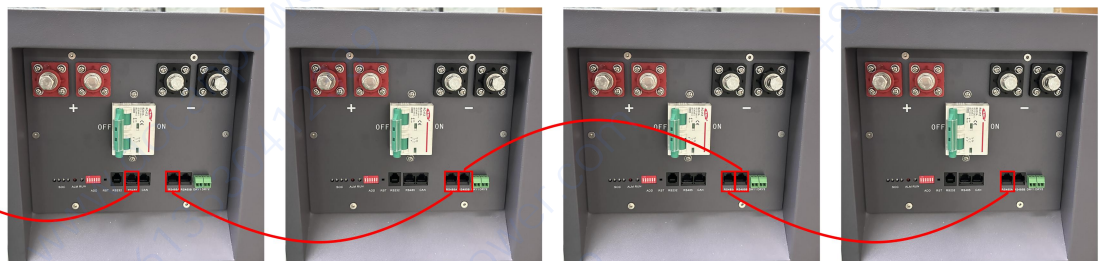
2.1 Product Specification

Items		Condition									
Standard Capacity	Standard Charge/discharge		200.0Ah	230.0Ah	300.0Ah	314.0Ah	400.0Ah	460.0Ah	600.0Ah	900.0Ah	1000.0Ah
Standard Voltage	Normal		51.2V	51.2V	51.2V	51.2V	51.2V	51.2V	51.2V	51.2V	51.2V
Charge voltage	/		58.4V	58.4V	58.4V	58.4V	58.4V	58.4V	58.4V	58.4V	58.4V
Nominal Capacity	25±3°C		100.0A	100.0A	100.0A	100.0A	100.0A	100.0A	100.0A	100.0A	100.0A
minimum discharging voltage	Constant current terminal voltage (cut-off)		42V	42V	42V	42V	42V	42V	42V	42V	42V
Max Continuous Discharge Current	25±3°C		200.0A	200.0A	200.0A	200.0A	200.0A	200.0A	200.0A	200.0A	200.0A
Max output Total Energy (Wh)	25±3°C		10240Wh	11776Wh	15360Wh	16076Wh	20480Wh	23552Wh	30720Wh	46080Wh	51200Wh
Operating	Charge	/	0°C~60°C								
Temperature	Discharge	/	-20°C~60°C								
Storage Temperature	one month Three months Six months		-20°C~45°C -20°C~35°C -20°C~25°C								
Power Cable Terminal	/		Ring Terminal								

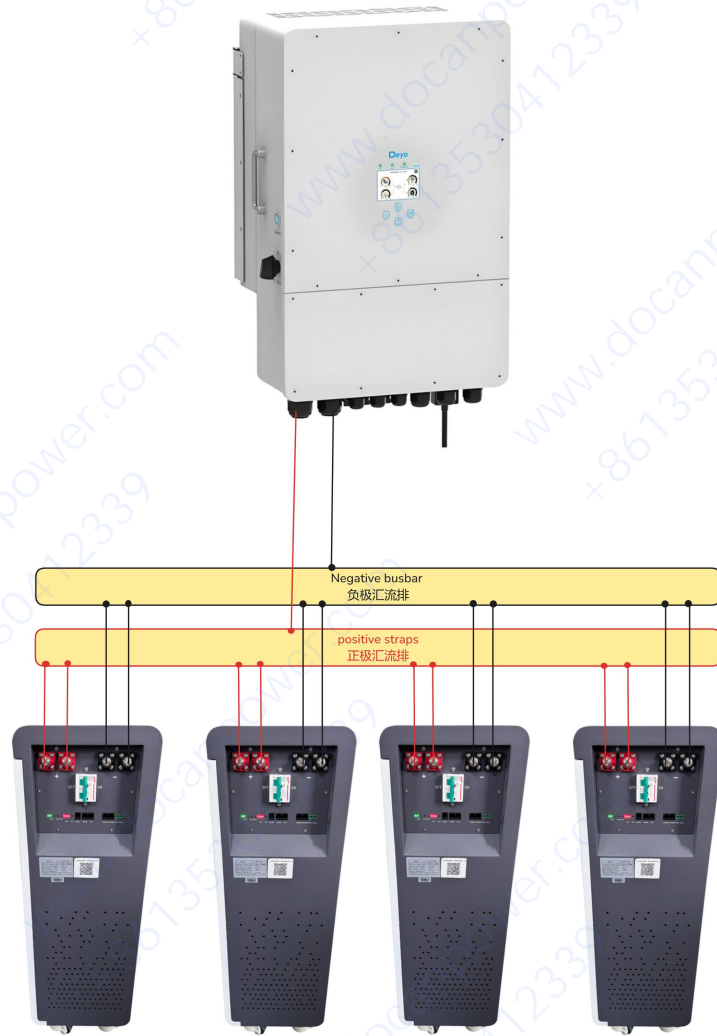
2.2 Parallel Connection

Attention when parallel connecting batteries: It is forbidden to directly connect the positive and negative terminals of the battery. When two or more batteries are connected in parallel, it is prohibited to directly connect them to the positive and negative terminals. Instead, a busbar or main line should be used for connection. Try to keep the length of each power line to the busbar consistent so that the current of each battery can be evenly distributed. The maximum number of parallel connections supported is 16, as shown in the following figure:

Schematic diagram of multiple battery communication and parallel connection:



Schematic diagram of parallel connection of multiple batteries:



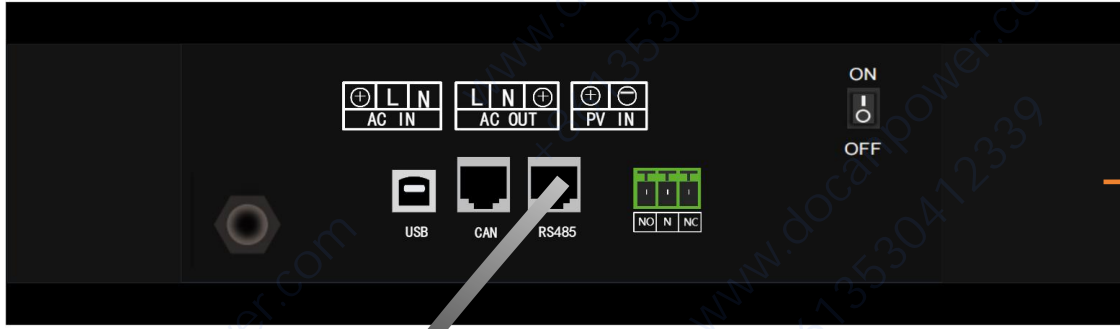
Max up to 16 parallel group

Model	Capacity	Max Parallel	Max Capacity
51.2V200Ah	10240Wh	16pcs	51.2V3200Ah 163.840Kwh
51.2V230Ah	11776Wh	16pcs	51.2V3680Ah 188.416Kwh
51.2V300Ah	15360Wh	16pcs	51.2V4800Ah 245.760Kwh
51.2V314Ah	16076Wh	16pcs	51.2V5024Ah 257.228Kwh
51.2V400Ah	20480Wh	16pcs	51.2V6400Ah 327.680Kwh
51.2V460Ah	23552Wh	16pcs	51.2V7360Ah 376.832Kwh
51.2V600Ah	30720Wh	16pcs	51.2V9600Ah 491.520Kwh
51.2V900Ah	46080Wh	16pcs	51.2V14400Ah 737.280Kwh
51.2V1000Ah	51200Wh	16pcs	51.2V16000Ah 819,200Kwh

2.3

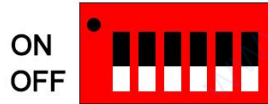
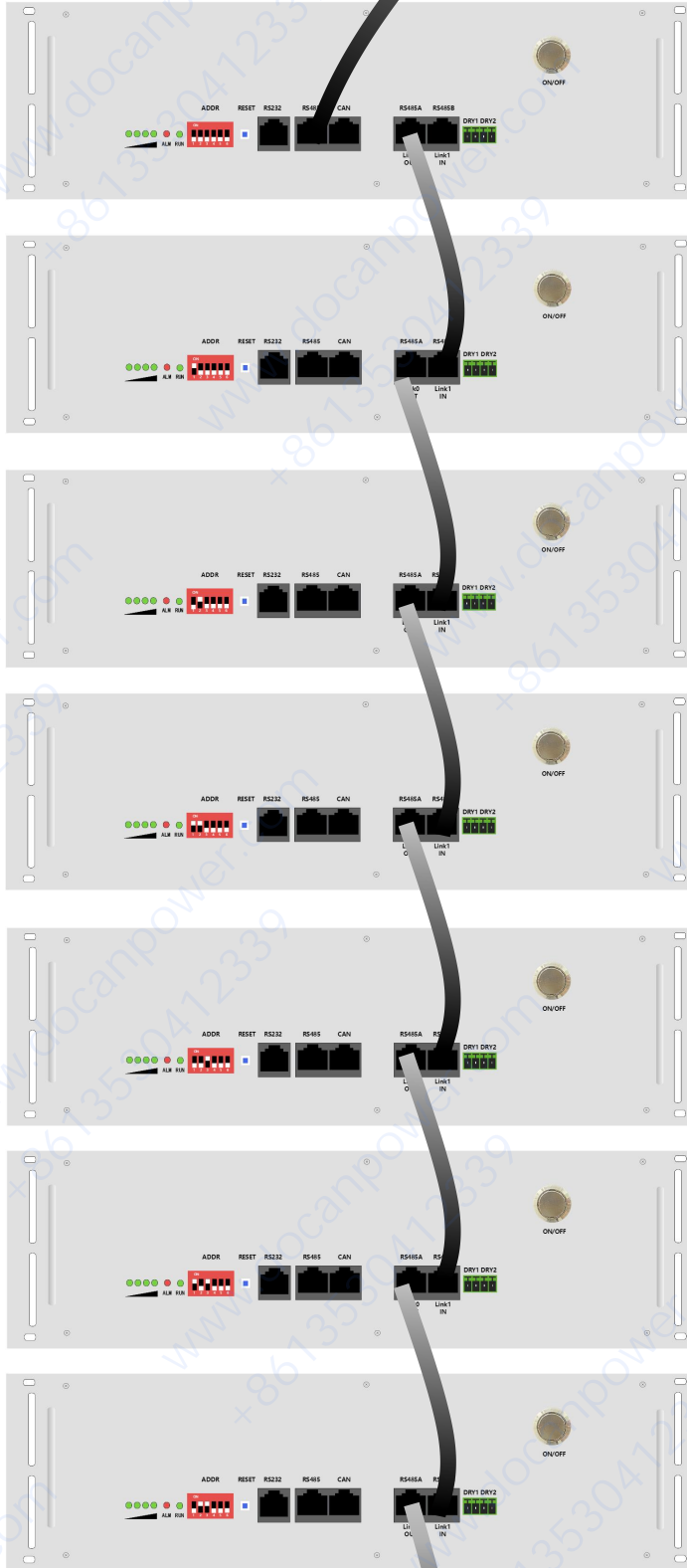
Slave dialing method and host protocol selection

Address	Dip switch address setting				Protocol selection		Explain
	#1	#2	#3	#4	#5	#6	
0	OFF	OFF	OFF	OFF	OFF	OFF	(Host) Pack0
1	ON	OFF	OFF	OFF	OFF	OFF	(slave) Pack1
2	OFF	ON	OFF	OFF	OFF	OFF	(slave) Pack2
3	ON	ON	OFF	OFF	OFF	OFF	(slave) Pack3
4	OFF	OFF	ON	OFF	OFF	OFF	(slave) Pack4
5	ON	OFF	ON	OFF	OFF	OFF	(slave) Pack5
6	OFF	ON	ON	OFF	OFF	OFF	(slave) Pack6
7	ON	ON	ON	OFF	OFF	OFF	(slave) Pack7
8	OFF	OFF	OFF	ON	OFF	OFF	(slave) Pack8
9	ON	OFF	OFF	ON	OFF	OFF	(slave) Pack9
10	OFF	ON	OFF	ON	OFF	OFF	(slave) Pack10
11	ON	ON	OFF	ON	OFF	OFF	(slave) Pack11
12	OFF	OFF	ON	ON	OFF	OFF	(slave) Pack12
13	ON	OFF	ON	ON	OFF	OFF	(slave) Pack13
14	OFF	ON	ON	ON	OFF	OFF	(slave) Pack14
15	ON	ON	ON	ON	OFF	OFF	(slave) Pack15
Inverter communication protocol Select CAN communication (select by DIP 5 and 6 in host mode)							
0	OFF	OFF	OFF	OFF	OFF	OFF	Support upper computer/display screen Selection of inverter protocol
16	OFF	OFF	OFF	OFF	ON	OFF	Victron SMA,SOFAR
32	OFF	OFF	OFF	OFF	OFF	ON	Pylon,Deye
48	OFF	OFF	OFF	OFF	ON	ON	Growatt
Inverter communication protocol RS485 communication (Select DIP 5 and 6 in host mode)							
0	OFF	OFF	OFF	OFF	OFF	OFF	Support upper computer/display screen Selection of inverter protocol
16	OFF	OFF	OFF	OFF	ON	OFF	SRNE
32	OFF	OFF	OFF	OFF	OFF	ON	Voltronic
48	OFF	OFF	OFF	OFF	ON	ON	Growatt

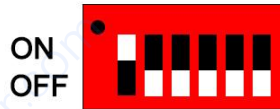


Growatt Inverter

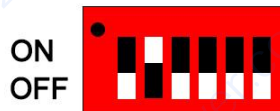
The DIP address complies with the ASIC code



The address of the PACK0 host is 0, which means that all DIP codes are set to OFF



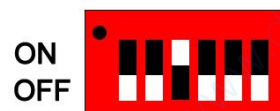
The address of PACK1 host is 1, which means DIP code 2/3/4/5 is set to OFF. DIP code 1 is used for protocol selection



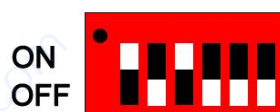
PACK2 slave IP address set to 2, DIP switch 2 set to ON



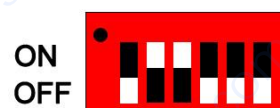
PACK3 slave IP address set to 3, DIP switch 1/2 set to ON
Slave IP address set to 4, DIP switch 3 set to ON

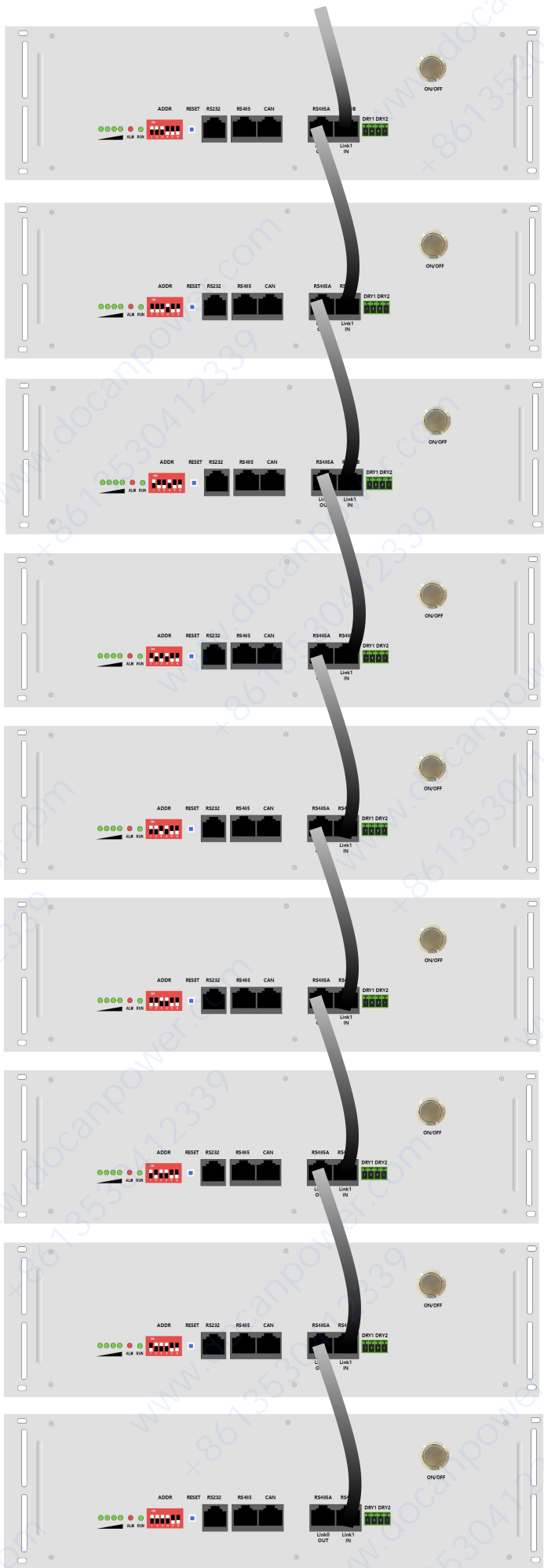


PACK5 slave IP address set to 5, DIP switch 1/3 set to ON




PACK6 slave IP address set to 6, DIP switch 2/3 set to ON






ON
OFF




PACK7 slave IP address set to 7, DIP switch 1/2/3 set to ON

ON
OFF




PACK8 slave IP address set to 8, DIP switch 4 set to ON

ON
OFF




PACK9 slave IP address set to 9, DIP switch 1/ 4 set to ON

ON
OFF




PACK10 slave IP address set to 10, DIP switch 2 / 4 set to ON

ON
OFF




PACK11 slave IP address set to 11, DIP switch 1/2/4 set to ON

ON
OFF




PACK12 slave IP address set to 12, DIP switch 3/4 set to ON

ON
OFF




PACK13 slave IP address set to 13, DIP switch 1/3/4 set to ON

ON
OFF



PACK14 slave IP address set to 14, DIP switch 2/3/4 set to ON

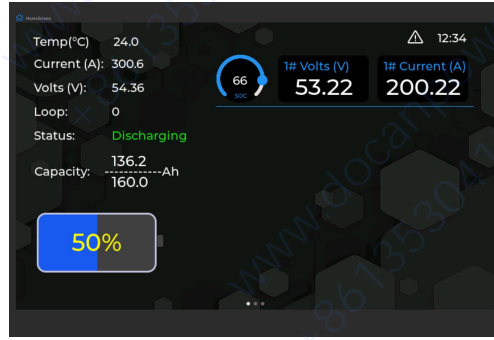
ON
OFF



PACK15 slave IP address set to 15, DIP switch 1/2/3/4 set to ON

2.5 Introduction to LED Touch Screen Display

2.5.1 Physical drawing



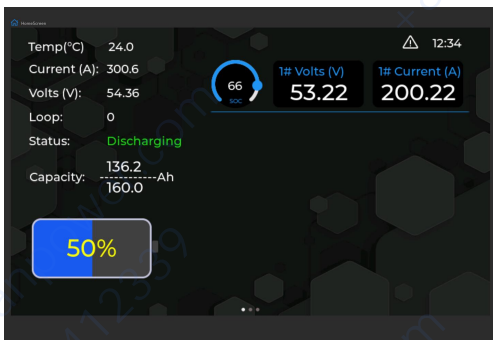
2.5.2 Function introduction

Equipped with backup power supply motherboard, the battery pack sampling information and working status can be displayed through the LCD screen.

2.5.3 Power-on display interface



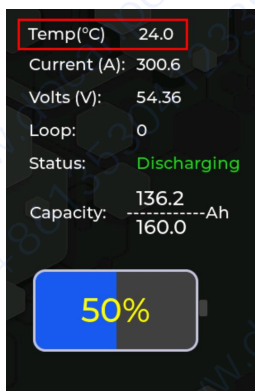
2.5.4 home page



The home page displays the overview of the battery cluster. The information is divided into three parts:
System status area
Slave machine status area
Message notification area

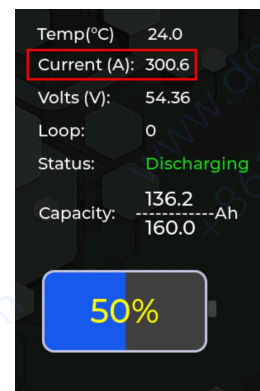
2.5.5 This section describes the system status area

(1) temperature:



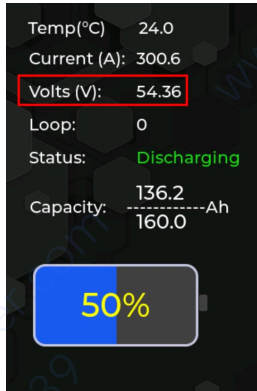
This temperature is the average temperature of all online packs

(2) Electric current:



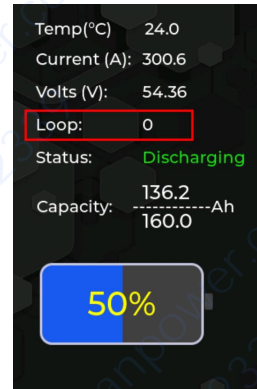
This current is the total current of all online PACKS

(3) voltage:



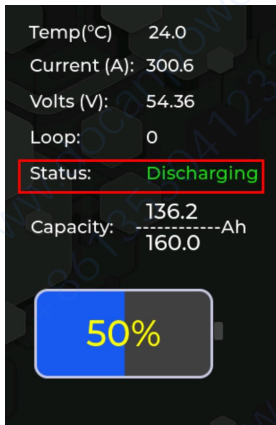
This voltage is the average voltage of all online packs

(4) Cycle number:



The number of cycles is the average number of cycles for all online packs

(5) status:



The overall status of the system is displayed as follows:

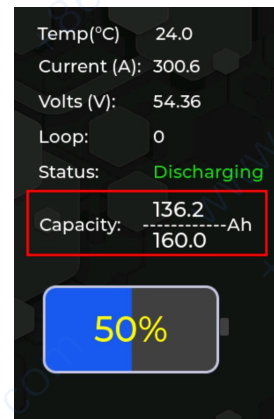
Discharging-The system is in discharge

Charging-The system is charging

IDLE-System idle

COM FIN-The screen is not connected to the BMS system

(6) capacity:



----- The remaining system capacity is displayed in the upper part, full system capacity is displayed in the lower part, and system SOC is displayed in the lower part.

2.5.6 Description of the status area of the slave machine

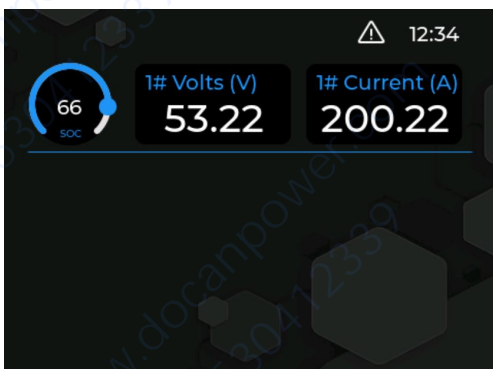
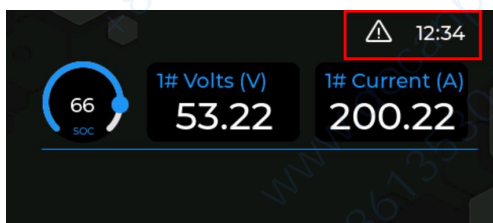


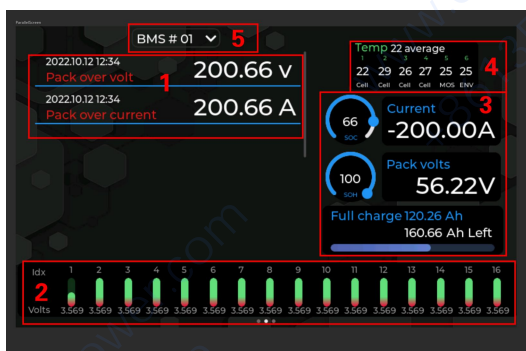
Figure shows that address 0, address 1, address 2, and address 3pack are online respectively. They are reordered based on the upper and lower lines of packs. When the number of online packs exceeds the display range, you can slide this area up and down to display other data smoothly. This status area displays the real-time SOC, voltage, current, and address for each PACK

2.5.7 Message notification area



Triangle warning sign: indicates that there is an alarm or protection occurring in the parallel battery pack.

Time: is the system time. After the display screen is successfully connected to the BMS, it automatically synchronizes with the BMS host time.



The main function of the parallel page is to display the PACK information of the corresponding address, which is divided into five parts:

- 1、 alarm, protection, and fault information
- 2、 Cell voltage information
- 3、 General overview
- 4、 pack temperature
- 5、 Address switching(DIP)

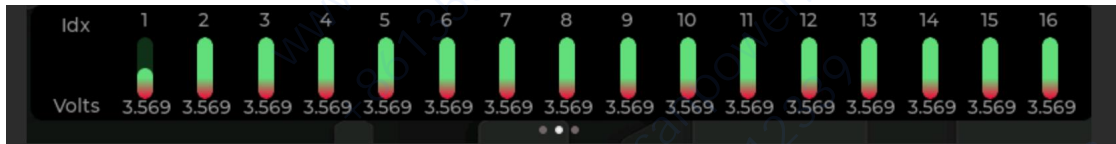
2.5.9 Alarm, protection, and fault information



This area displays the pack status of the selected address. When multiple information bars appear, they are arranged downward according to the order of protection, fault, and alarm. You can swipe up and down the area beyond the screen to view the information. Table lists the specific types.

Single high voltage alarm	Cell OVA	Single high voltage protection	Cell OVP	AFE malfunction	AFE FAIL
Single low voltage alarm	Cell UVA	Single low voltage protection	Cell UVP	NTC malfunction	NTC FAIL
Overall high voltage alarm	Pack OVA	Overall high voltage protection	Pack OVP	Current limiting fault	LIMIT BOARD FAIL
Overall low voltage alarm	Pack UVA	Overall low voltage protection	Pack UVP	Cell malfunction	CELL FAIL
Charging overcurrent alarm	CHG OCA	Charging overcurrent protection	CHG OCP	Heating malfunction	HEATING FILM FAIL
Discharge overcurrent alarm	DSG OCA	Discharge overcurrent protection	DSG OCP	Charging MOS fault	CHG MOS FAIL
Environmental high temperature alarm	ENV OTA	short circuit	short circuit	Discharge MOS fault	DISCH MOS FAIL
Environmental low temperature alarm	ENV UTP	Charging high temperature protection	CHG OTP	Sampling fault	SAMPLING FAIL
MOS high temperature alarm	MOS OTA	Low temperature protection for charging	CHG UT	System Lock	SYSTEM LOCKED
SOC low alarm	SOC LOW_A	Discharge high temperature protection	DSG OTP	Anti theft lock	SYSTEM LOCKED
Alarm for excessive pressure difference	Cell V_DIFF_A	Low temperature protection for discharge	DSG UTP	Release device disconnected	SYSTEM LOCKED
Charging high temperature alarm	CHG OTA	Protection against excessive pressure difference	Cell V_DIFF_P		
Charging low temperature alarm	CHG UTA	MOS high temperature protection	MOS OTP		
Charging low temperature alarm	DSG OTA	Environmental high temperature protection	ENV OTP		
Low temperature discharge alarm	DSG UTA	Environmental low-temperature protection	ENV UTP		

2.5.10 Cell voltage information area



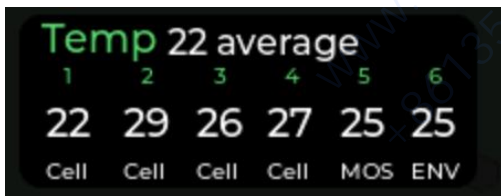
This area shows the voltage status of pack cells, the lowest value represents the voltage value, the unit is V, the light column in the middle corresponds to the voltage value linearly, and the upper 1~16 represents the cell number. When the bms is a non-16-battery system, the group without this number will display 0, as shown in the picture above for the 15S system.

2.5.11 General profile area



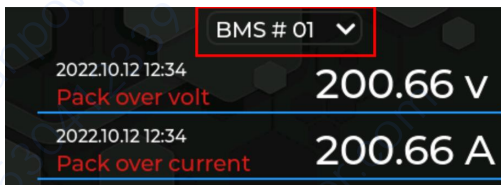
This area displays the pack's total voltage, total real-time current, SOC, SOH, full charge capacity, and remaining capacity.

2.5.12 pack temperature zone



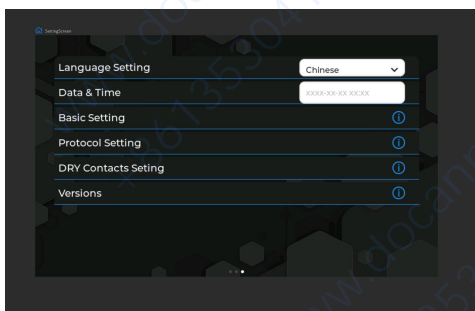
This area from left to right is the 1st NTC temperature, 2nd NTC temperature, 3rd NTC temperature, 4th NTC temperature, MOS temperature, and ENV temperature.

2.5.13 toggle button



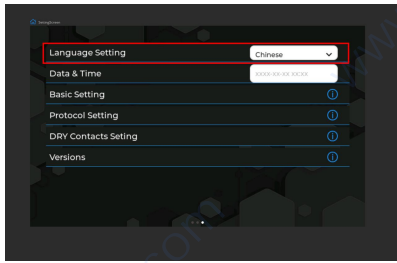
This button is used to toggle and display the current address, for example: #.04 indicates that the fourth pack information is currently displayed.

2.5.14 Setup page



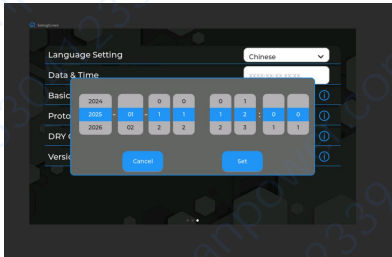
The content displayed on this page is the setting content. You can set the required language, time, brightness, standby time, protocol selection, and view version information on this interface.

2.5.15 Language setting



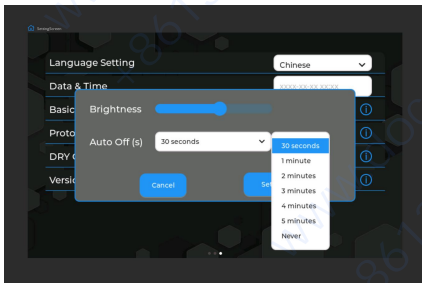
By clicking the drop-down box, the options will be expanded down, and the Settings will be completed by clicking the options.

2.5.16 Time Settings



Click the white time input box, the time setting pop-up window will pop up from the bottom, select the time and date by sliding the time wheel, and click the setting key to complete the setting.

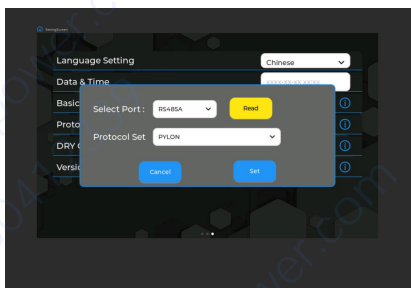
2.5.17 Brightness and sleep Settings



Expand the Settings popup window by clicking the extension button on the far right of basic Settings. Brightness Settings: Drag the progress bar of brightness Settings to set the screen brightness.

Hibernation setting: Click the hibernation drop-down box and select the hibernation time to be set. If there is no touch on the screen during this time, the screen will turn off and wake up when touched.

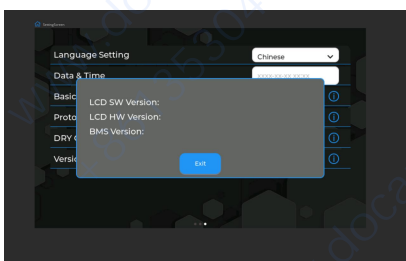
2.5.18 Protocol setting



Expand the Settings popup window by clicking the extension button on the far right of protocol Settings. Communication protocol Settings: Click the port selection box, swipe up and down and click to select the communication protocol to be set, and click "Read" once.

Protocol type setting: Click the protocol selection box, swipe up and down and click to select the protocol to be set, and finally click set to complete the selection of the protocol.

2.5.19 Get version information



By clicking the extension button on the far right of the version and expanding the popup window, you can know the display version information and BMS version information

3 Communication specification

3.1 232 communication interface

The function is optional, with only hardware interfaces reserved
BMS can communicate with the host computer through RS232 interface, so that various information of the battery can be monitored through the host computer, including battery voltage, current, temperature, status and battery production information, etc. The default baud rate is 9600bps

3.2 CAN Communication

The default baud rate is 500K, and this interface is used for communication with the inverter. When the battery is the host, it can summarize data from the slave and communicate with the inverter

3.3 Battery parallel communication interface

Used for battery parallel communication, the host queries data from the slave and uploads it to the inverter

3.4 Independent RS485 Communication

The default baud rate is 9600bps. This interface is used for communication with the inverter. When the battery is the host, it can summarize data from the slave and communicate with the inverter or connect to the upper computer for communication and upgrading

3.5 Bluetooth module

The Bluetooth module is optional. After selecting the Bluetooth module, it can support functions such as viewing battery data, reading battery history data, modifying parameters, system settings, etc. through the Bluetooth APP.

3.6 WiFi module

After connecting the WiFi module, you can view data locally through the APP or remotely view battery data, modify parameters, system settings, and other functions after configuring the network for the WiFi module

3.7 WiFi module distribution network operation instructions

PP download
Android version
Download Link: <https://www.pgyer.com/b8uo9upa> 扫码下载
方式 Scan code to download:



IOS version

① Search for "BMS Insight" on the App Store



Scan the QR code to go to the App store to download



3.8 Local WiFi connection module:

Equipment selection interface

Step 1: Click the Bluetooth button to turn on the Bluetooth function.

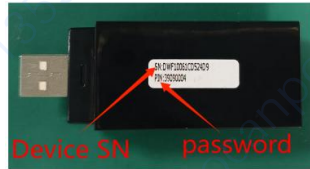
(Note: The Bluetooth function and positioning function of the mobile phone must be turned on at the same time, and the location information must be allowed to be obtained)

Step 2: After entering the app, click on Local Connection. Search or find the device SN that needs to be connected.

The device SN is the SN code pasted on the casing.

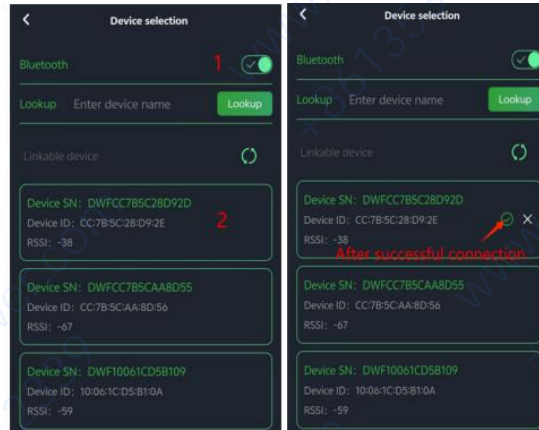
(Note: If the device cannot be found when the module is powered on, please wait for 4 minutes and search again)

Step 3: Click on the device that needs to be connected, and if the connection is successful, it will automatically jump to the monitoring interface.



Device ID is Device SN

Device Address is your mailing address or any text you want to put in.

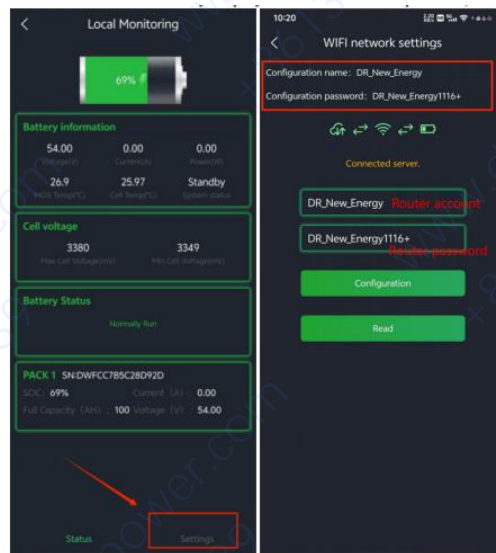


3.9 WIFI network configuration

After entering the local connection, the WIFI module can configure the network through this interface.

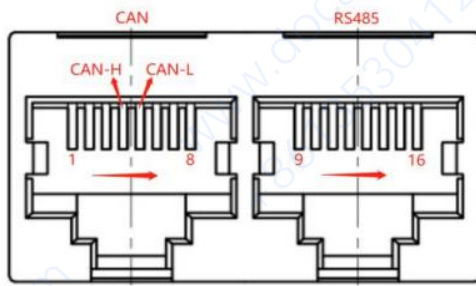
- ① Enter the correct router account and password (the configured WIFI signal must be in the 2.4G frequency band, i.e. without the _5G suffix).
- ② Click Configure.
- ③ Click Read. The currently configured WIFI account, password and module connection status are displayed above.

(Note: ① The router account and password must be in English characters. ② If the phone is not connected to the router, you need to manually enter the router account. If the phone is connected to the router, the account will be automatically displayed in the account input box.)

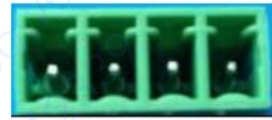


4. Interface definition

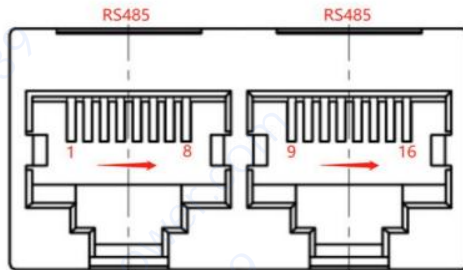
4.1 Interface diagram



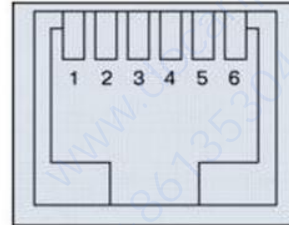
CAN 和 RS485 接口
CAN and RS485 interfaces



1 2 3 4
干接点
DRY CONTACT



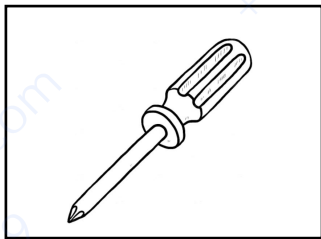
并联通讯端口
Parallel communication port



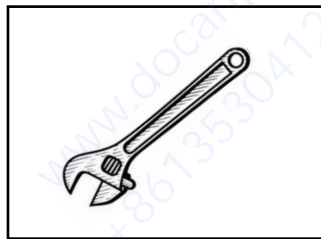
RS232 通讯接口
RS232 communication interface

5. Is

To install the battery pack, those following tools are probably required



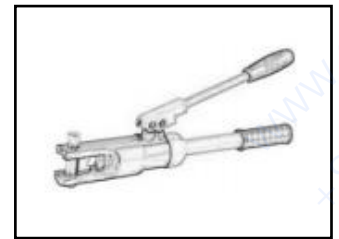
screwdriver



wrench



Cable crimping pliers



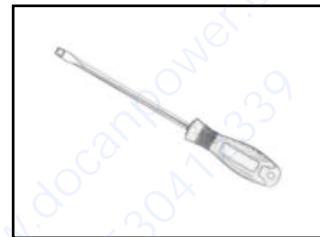
clamp



voltmeter



electric drill



Flat head screwdriver

In order to protect operator and installer's safety, please select and use suitable tools and measuring instruments that are certified for precision and accuracy.

5.1 Safety Instruments

When dealing with the battery, following safety gears should be equipped. Installers must meet the relevant requirements of IEC 60364 or the domestic legislation and other relevant international standards



Oven Mitt



goggles



Safety shoes

Connection of the wires safely



Wear safety gloves and wrap the positive and negative wires with insulating tape
Prevent short circuits caused by contact between the positive and negative terminals



The insulation tape is wrapped around both ends of the positive and negative wires to complete the state



Unscrew the positive screw with a screwdriver



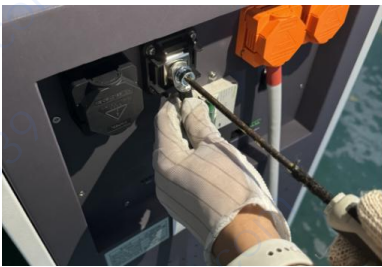
Connect the positive wire



Cover the positive electrode with a protective cover after assembly



Unscrew the negative screw with a screwdriver



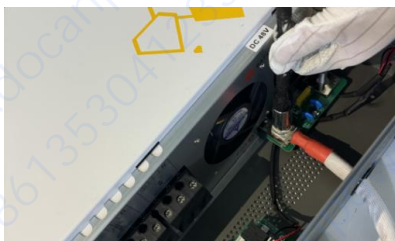
Connect the negative wire



Cover the negative electrode with a protective cover after assembly



Battery positive and negative pole installation completed status



Connect the positive wire of the inverter



Connect the negative wire of the inverter



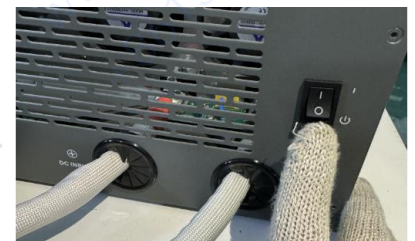
Inverter positive and negative pole installation completed status



Turn on the battery main switch



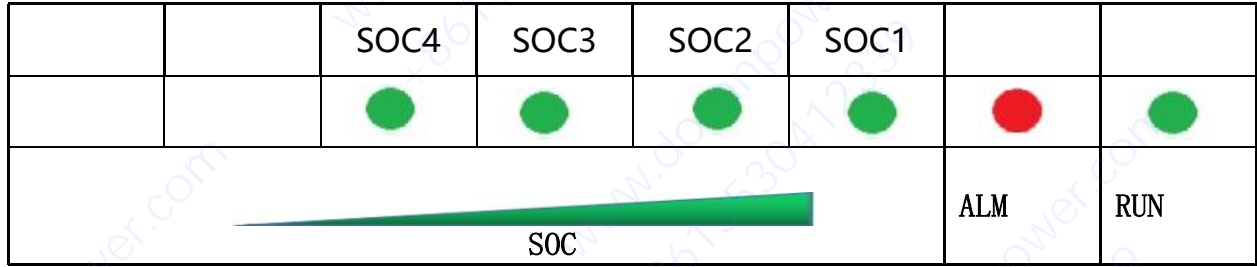
Activate battery switch



To complete the above steps, wait for one minute before starting the inverter switch

7 LED indicator definition

LED lights: 4 green capacity indicators, one red alarm indicator, and one green running indicator



7.1 Capacity indication

state	charge				discharge			
Capacity indicato	SOC4 ●	SOC3 ●	SOC2 ●	SOC1 ●	SOC4 ●	SOC3 ●	SOC2 ●	SOC1 ●
0 ~ 25%	Blink2	Off	Off	Off	On	Off	Off	Off
25 ~ 50%	On	Blink2	Off	Off	On	On	Off	Off
50 ~ 75%	On	On	Blink2	Off	On	On	On	Off
75 ~ 100%	On	On	On	Blink2	On	On	On	On
Running indicator light	Stady light				Blink 3 tims			

7.2 Status indication

System state	Abnormal event	SOC LED				ALM	RUN	description
Shut down	Shut down/sleep mode _____	All shut down						
standby	normal	Indicator by SOC				off	blink1	When in standby mode, only normal and alarm are available, and protection and fault are reported according to the charging and discharging status; The alarms include the following categories: high voltage difference alarm, low capacity alarm, low individual voltage, low overall voltage, and all temperature alarms (high or low cell temperature, high or low ambient temperature, high MOS temperature)
	alarm					blink2	blink1	
charge	normal	Indicator by SOC Highest indication with blink				off	on	

System state em state	Abnormal event	SOC LED				ALM	RUN	description
		●	●	●	●			
		●	●	●	●	●		
charge	normal	Indicator by SOC				off	on	
	alarm	Indicator by SOC Highest indication with blink				blink2	on	The alarms include the following categories: high voltage difference alarm, low capacity alarm, low individual voltage, low overall voltage, and all temperature alarms (high cell temperature, low ambient temperature, high/low, MOS temperature); Overcurrent alarm)
	Unit \ overall overvoltage protection \ full charge protection	Indicator by SOC				off	on	
	Overcurrent protection (Enter current limiting charge)	Indicator by power(When there is charging current, the LED with the highest power indicator flashes 2)				off	on	After charging over current protection, it enters current limiting charging and the charging current is displayed in normal state; After overcurrent protection, it enters current limiting charging and no charging current is displayed according to fault state, ALM steady on and all others are off
	Temperature protection	off				on	off	Cell, MOS, environment
discharge	normal	Indicator by SOC				off	blink3	
	alarm	Indicator by SOC				blink2	blink3	The alarms include the following categories: high voltage difference alarm, low capacity alarm, low individual voltage, low overall voltage, and all temperature alarms (high or low cell temperature, high or low ambient temperature, high MOS temperature; overcurrent alarm)
	Monomer/whole Undervoltage protection	Indicator by SOC				blink2	off	
	Overcurrent, short circuit protection	off				on	off	
failure	NTC fault, MOS fault, reverse connection, differential pressure protection, ultra-low voltage protection	off				on	off	

7.2 Blink indication

Blink indication	on	off
blink1	0.25 S	3.75 S
Blink2	0.5 S	0.5 S
Blink3	0.5 S	1.5 S

8 Sleep and Awakening

8.1 Sleep

1) If the undervoltage protection or overall undervoltage protection is not released for 15 minutes, enter undervoltage sleep mode.
2) Press button (3-6S) and release.

3) The minimum battery voltage is lower than the sleep voltage, and the duration reaches the sleep delay time. After a delay of 24 hours, it enters standby sleep mode (while meeting the requirements of no communication, no protection, no balance, and no current).

4) Force shutdown through the upper computer software.

Before entering sleep mode, it is necessary to ensure that the input terminal is not connected to external voltage, otherwise it will not be able to enter low-power mode.

8.2 Awakening

When the system is in low-power mode and meets any of the following conditions, the system will exit low-power mode and enter normal operation mode:

- 1) Connect the charger, and the output voltage of the charger should be greater than 48V.
- 2) Press button (3-6S) and release.

9. Product lifespan

The design lifespan of this product is 10-15 years.

10. Transportation

During transportation, please avoid severe battery vibration, impact, excessive exposure to sunlight, and exposure to moisture.

11. Storage

11.1 Storage Environment Requirements

The temperature is 25 ± 3 °C and the relative humidity is 45~85%.

11.2 Storage period

Lithium batteries must be charged every three months and require a complete charge and discharge cycle every six months.

12. Precautions

- *Installation and debugging should be carried out by professional electrical personnel.
- *Do not put your hands or other objects deep inside the product.
- *Please do not open the product without professional personnel.
- *Please do not mechanically damage the battery module cabinet of the energy storage device (perforation, deformation, peeling, etc.).
- *Please use a dry powder fire extinguisher as the extinguishing agent.
- *Please do not allow the battery module to come into contact with abnormal metals or conductors.
- *If the battery has a short circuit, please contact professional electrical personnel or battery manufacturers to test and remove the short circuit protection before use.
- *Please do not expose the energy storage cabinet to flammable or hazardous chemicals or vapors.

13 Transportation

- 1) Customized wooden crate packaging and delivery. During loading, unloading, and transportation, violent vibrations and significant external impacts must be avoided, and rolling, inversion, squeezing, and stacking too high are prohibited.
- 2) During transportation, rain should be avoided.
- 3) Before transportation, ensure that the battery or battery pack has been disconnected from the load on the charging device and there is no charging or discharging behavior of any kind.
- 4) Before transportation, the high and low voltage wiring harnesses should be fixed and protected to avoid damage to the harnesses or even short circuits caused by wire harness pulling during transportation.
- 5) If there is damage such as falling or water ingress during transportation, it should be placed separately and inspected by professionals.



14 Warranty Response/Replacement

Your battery is covered by warranty from the date of retail purchase for defective materials or workmanship.

Except for this limited warranty, we make no warranties and expressly exclude any implied warranties, including any warranties for consequential damages. This limited warranty is non transferable.

The seller guarantees that if used in accordance with all applicable instructions, this product will not have any original defects in materials and workmanship during the warranty period. If any malfunction occurs during the warranty period, the seller will decide to repair or replace the product based on the situation of the malfunction.

Limited Warranty

Save proof of purchase, such as a dated receipt. The warranty period of this device is extended to the original purchaser or user and may cover material and process defects.

For malfunctions caused by material or process defects within six months from the date of purchase, we will make our own decision to repair or replace the equipment after inspection.

If any of the following situations occur, this warranty is invalid, but not limited to: Not following the instructions in the user manual.

- Accidental or unreasonable use, misuse or improper handling, overcharging or loading, or normal wear and tear.
- Extend storage time without the need for unauthorized personnel to charge, repair, or modify.

This warranty replaces all other express warranties. Blue Reverse shall not be liable for indirect or consequential damages.

15 packing list

Check the equipment before installation. Ensure that the packaging is not damaged. The packaging should include the following items.



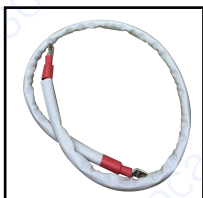
①



②



③



④



⑤

① lithium battery * 1

② Upper computer communication cable * 1 ③

Battery and inverter communication connection cable * 1

④ Battery and inverter positive connection wire * 1

⑤ Battery and inverter negative connection wire * 1

Maintenance records

Dear user, thank you for choosing our product. Please fill out and save the warranty card for better service

contacts:

PRODUCT MODEL:

phone:

email:

purchasing date:

address:
