

Waterproof LiFePO₄ Battery

Pack Installation & Operation Manual

BR-OWPH-5115-V3

BR-OWPH-5116-V3



BASEN GREEN

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1. Preface

This manual will provide detailed product information and installation instructions for users of the wall-mounted series products. Please read this manual carefully, and put this manual in a place where you can install, operate, and obtain it conveniently.

The safety precautions mentioned in this manual do not cover all possible safety issues, but serve as supplementary guidelines. When installing, operating, or maintaining the equipment, do not wear any conductive objects such as watches, bracelets, or rings, and prevent moisture from entering the equipment. The manufacturer will not be responsible for any losses caused by violations of general safety operation requirements or safety standards related to the design, production, and use of the equipment. Installation and maintenance personnel must have high-voltage and AC power operation skills. When installing, operating, and maintaining equipment, do not wear any conductive objects, such as watches, bracelets, or rings, and prevent moisture from entering the equipment.



Safety Instructions

High Voltage Danger

The high-voltage power supply provides power for the operation of the equipment. Direct or indirect contact with a high-voltage power supply, especially through wet objects, can be fatal.

Use Professional Tools

Always use professional tools instead of personal tools when working with high voltage and AC power.

Anti-static

The static electricity generated by the human body will damage the electrostatic sensitive components on the board. Before touching the plug-in, circuit board or chip, make sure to take proper anti-static measures.

Operate Attention

The power must be cut off first before operation, Do not perform live-line operations.

DC Short Circuit Danger

The power system provides a regulated DC power supply. A DC short circuit can damage the equipment and cause personal injury.

2. Product Description

This product is a lithium iron phosphate (LiFePO₄) battery composed of 16 cells in series, suitable for home energy storage systems. It can be customized according to customer needs to meet various application scenarios and provide stable power for different user equipment.

3. Product Advantages

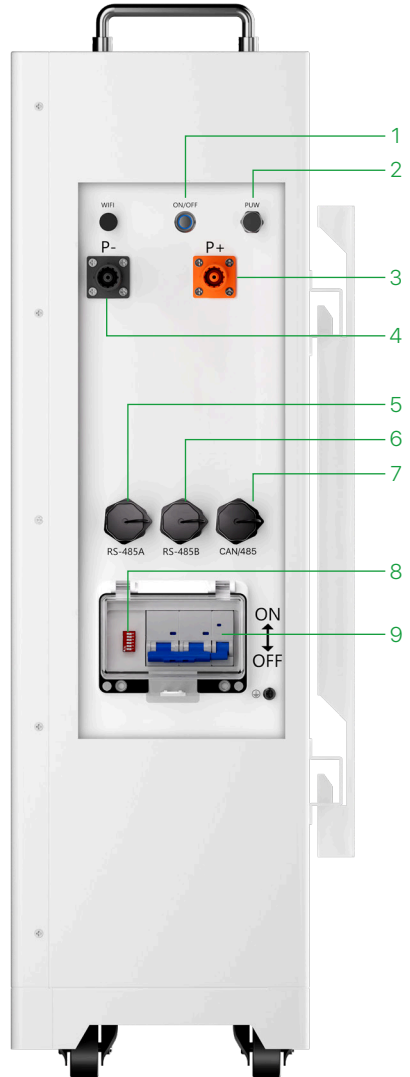
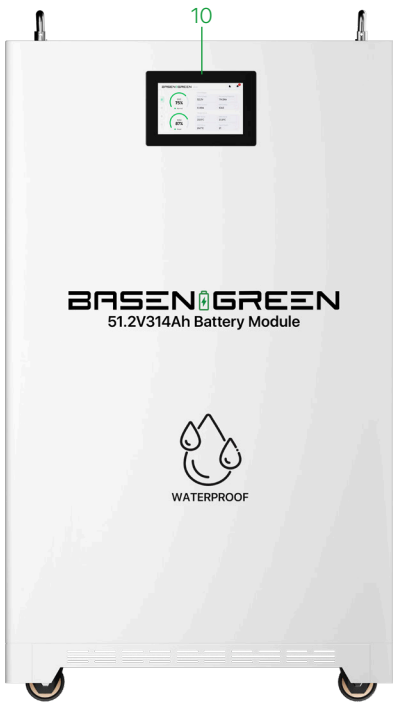
- a. Built-in Battery Management System (BMS): Overcharge, over-discharge, overcurrent, temperature control, short circuit and other protection functions.
- b. Active Balance Function: It features a voltage equalization function during charging.
- c. High Cost Performance: High safety performance, long service life, stable and reliable quality.
- d. Equipped with RS485/CAN bus ports, supporting up to 16 units in parallel.
- e. Wide Working Temperature: -20°C~60°C, excellent high temperature discharge performance.
- f. Convenient: Modular design, compact size, lightweight, and easy to install and maintain.

4. Product Technical Parameters

4.1 Specification

Item	Specifications	
Model	BR-OWPH-5115-V3	BR-OWPH-5116-V3
Nominal Voltage	51.2V	51.2V
Operating Voltage	43.2V-57.6V	43.2V-57.6V
Nominal Capacity	300AH	314AH
Total Energy	15360Wh	16076Wh
Configuration	1P16S	1P16S
Charging Cut-off Voltage	58.4V	58.4V
Discharge Cut-off Voltage	43.2V	43.2V
Operation Temperature	-20℃~60℃	-20℃~60℃
Standard Charging Current	50A	50A
Max Continuous Charging Current	200A	200A
Max Continuous Discharge Current	200A	200A
Dimension	850*500*272	850*500*272
Net weight	119KG	121KG

4.2 Interface Overview



Position	Item	Description
1	Power switch	The switch for turn on/turn off the battery pack.
2	Breather valve	A valve used for discharging gas to control pressure
3	P+	The positive terminal of the battery, can be connected to the positive pole of the inverter through a cable for DC output.
4	P-	The negative terminal of the battery, can be connected to the negative pole of the inverter through a cable for DC output.
5	RS-485A	RS485 port for the inverter or the PC Monitoring Software communication
6	RS-485B	RS485 port for parallel communication
7	CAN/485	CAN port for the inverter communication
8	ADD	Setting up battery parallel communication and inverter communication
9	Circuit breaker	Protect the battery against overloads and short circuits
10	Touch Colorful Screen	Display battery voltage, SOC, temperature, etc.

4.3 Battery Management System (BMS)

4.3.1 Overcharge Protection

When the voltage of any single cell or whole battery pack is higher than the set value during the charging, and the duration reaches the limited time, the system enters the overcharging protection state automatically, the charging MOS is turned off at the same time, and the battery cannot be charged. After the voltage of each cell and the whole battery pack drops below the cell overcharging recovery value, the overcharging protection state is released. It can also be released by discharging to return to normal state.

4.3.2 Over-discharge Protection

When the voltage of any single cell or whole battery pack is lower than the set value during discharging, and the duration reaches the limited time, the system enters the over-discharge protection state, the discharge MOS is turned off, and the battery cannot be discharged. After the over-discharge protection of the battery pack occurs, it can be released by charging the battery pack.

4.3.3 Overcurrent Protection

During charging and discharging, when the current exceeds the set value of the protection current, and the duration reaches the limited time, the system enters the overcurrent protection state, the charging and discharging MOS will be turned off automatically, and the battery cannot be charged and discharged, charging and discharging the battery pack can release the overcurrent protection state.

4.3.4 Over Temperature Protection

When the NTC detects the temperature of the battery cell surface is higher than the setting value of over temperature protection during charging and discharging, the management system enters the over temperature protection state, the charging or discharging MOS is turned off, and the battery pack cannot be charged or discharged in this state.

4.3.5 Low Temperature Protection

When the NTC detects that the temperature of the cell surface is lower than the setting value of low temperature protection during charging and discharging, the management system enters the low temperature protection state, the charging or discharging MOS is turned off, and the battery pack cannot be charged or discharged in this state.

5. Installation and configuration

5.1 Packing

- After receiving the battery, open the box to check the battery surface if found damaged, cracks or other bad phenomenon; if found damaged, please do not install, and need to contact the supplier, and wait for the supplier's reply before proceeding to the next step.
- Please ensure that the following items are included in the packaging:



Battery*1



Mounting Bracket*1



Expansion bolts*10



Positive and negative cable
100cm 35mm2



Waterproof
Connector*3



Inverter
communication cable*1



Parallel
communication cable*1



PC Monitoring Software
communication cable*1

5.2 Recommended Tools

Before installing the battery pack, the user needs to have the tools as following list:

Picture	Item	Description
	Level	Make sure the bracket is properly installed
	Hammer Drill	Drill holes on the wall
	Impact Wrench Set	Locking expansion bolts
	Electric Screwdriver	Wiring

	Hammer	Hanging the bracket
	Crimping Tool	Crimping tool for RJ45 terminal
	Crimping Plier	Crimping tool for insulated electric connectors
	Adjustable wrench	Loosening/tightening screws

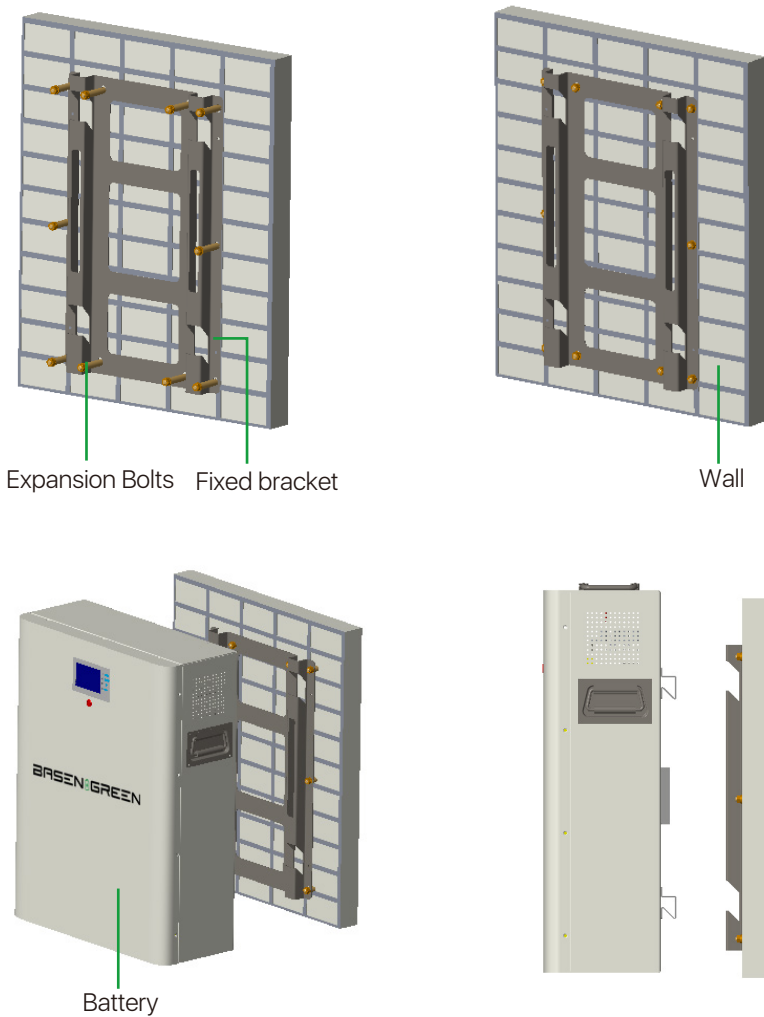
5.3 Notice for Installation

- The installation wall should be a solid brick or concrete wall with sufficient load-bearing capacity, and the wall thickness should be at least 100mm.
- For indoor installation, ensure there is enough space for easy installation and operation, and pay attention to ventilation. Do not place flammable materials near the battery.
- For outdoor installation, provide adequate protective measures and ensure rain protection.

5.4 Installation Procedure

- Mark the drilling position using the wall mounting plate, and level using a spirit level.
- Place the wall mounting plate close to the wall firmly, mark the drilling position, and remove the wall mounting plate.
- Drill holes in the wall using the drill. The hole diameter is 12mm and the depth is 60mm.
- Fix the M8 Expansion bolts, tightening torque: 20N.m
- Loosen the 4 wheels on the battery, lift the battery parallel to the ground, and hang the battery module on the bracket as shown in the following figure:

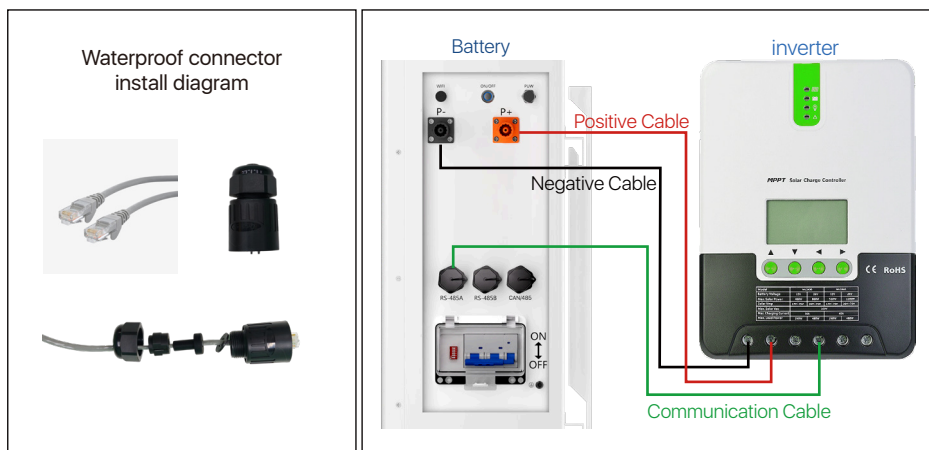
Installation Diagram



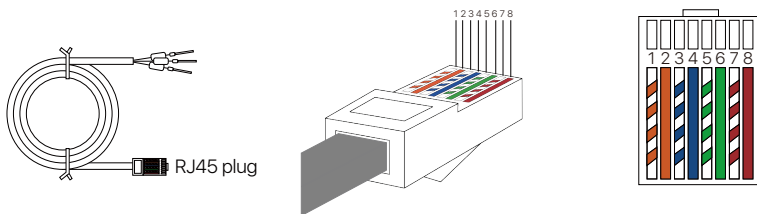
6. Connection

6.1 Precautions Before Connecting The Inverter

- Use a multi-meter to measure whether connection of the positive and negative cables are conducting, and check whether the connections are loose.
- The battery should be switched off before wiring to ensure that there is no DC output from the battery.
- Connect the positive terminals of the battery and inverter using a red power cable, and the negative terminals with a black power cable.
- Connect both communication ports of the battery(RS485A/CAN) and the inverter(BMS port) with the communication cable, BMS ports of inverter have different definitions for some brands, please check the inverter manual.

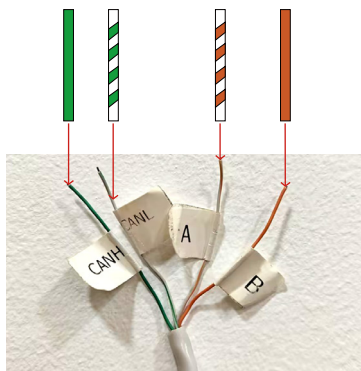
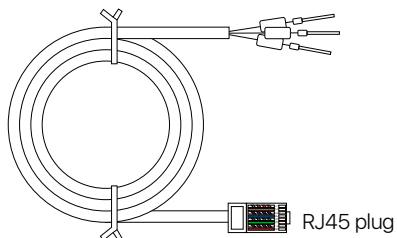


Communication cable connection Pin definition is as follows:



RS485A Port	PIN	1	2	3	4	5	6	7	8
	Define	RS485-B	RS485-A	GND	NC	NC	GND	RS485-A	RS485-B
CAN Port	PIN	1	2	3	4	5	6	7	8
	Define	NC	NC	NC	CAN-H	CAN-L	NC	GND	NC

6.2 RJ45 Connector Diagrams of Inverter's port

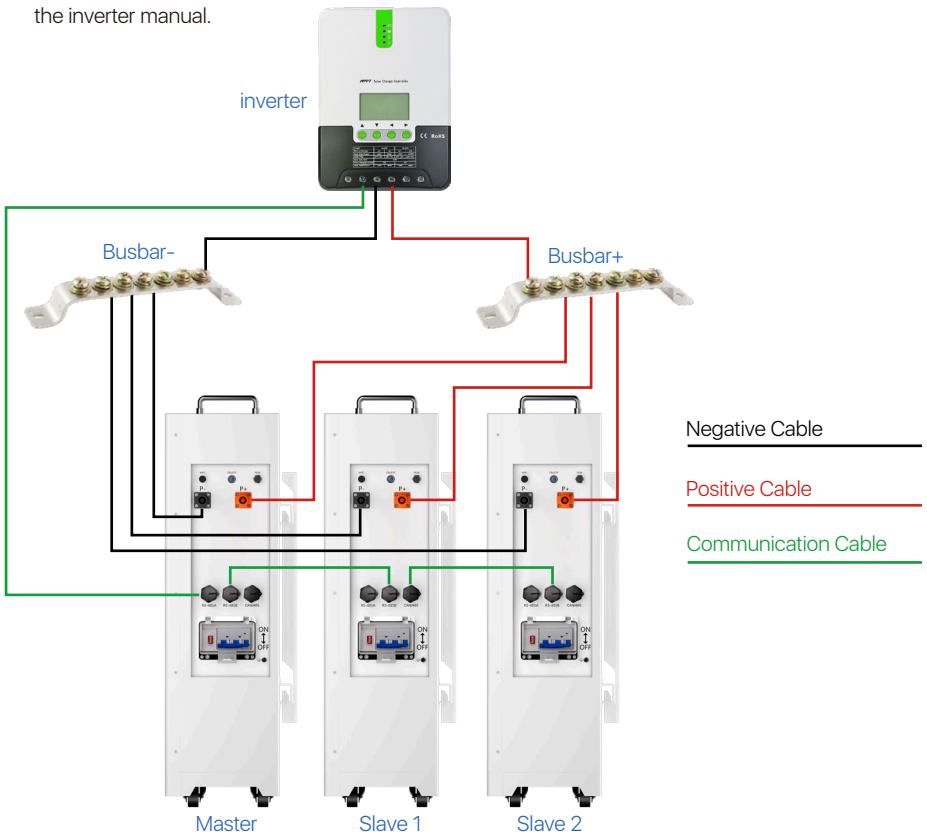


RJ45 Connector Diagrams	Communication
 Inverter Brand: DEYE, Growatt, Goodwe, Solis	CANH->pin4 CANL->pin5
 Inverter Brand: Victron	CANH->pin7 CANL->pin8
 Inverter Brand: Pylon, Growatt	RS485B->pin1 RS485A->pin2
 Inverter Brand: Voltronic	RS485B->pin3 RS485A->pin5
Please set up the RJ45 connector according to the pin definition of the inverter	

6.3 Precautions Before Connecting The Inverter with The Battery Pack in Parallel

⚠ Ensure all packs are at same voltage before parallel connection!

- Use a multi-meter to measure whether connection of the positive and negative cables are conducting, and check whether that connections are loose.
- The battery should be switched off before wiring to ensure that there is no DC output from the battery.
- Lock the parallel cable wires to the positive terminal of the battery pack first, then connect another end to the negative terminal.
- Parallel communication cable to the RS485 port of the battery pack.
- Connect the positive terminals of the battery and inverter using a red power cable, and the negative terminals with a black power cable.
- Connect both communication ports of the battery(RS485A/CAN) and the inverter(BMS port) with the communication cable, BMS ports of inverter have different definitions for some brands, please check the inverter manual.



6.4 Dip Code Switch Definition and Setting

DIP address switch is a 6-bit DIP switch to manually distribute the communication address of parallel batteries.

The BMS will recognize the DIP address in a few seconds. When the DIP address is 0, the battery is configured as stand-alone working mode or master working mode; When the DIP address is 1 to 15, the BMS is configured as the slave working mode.

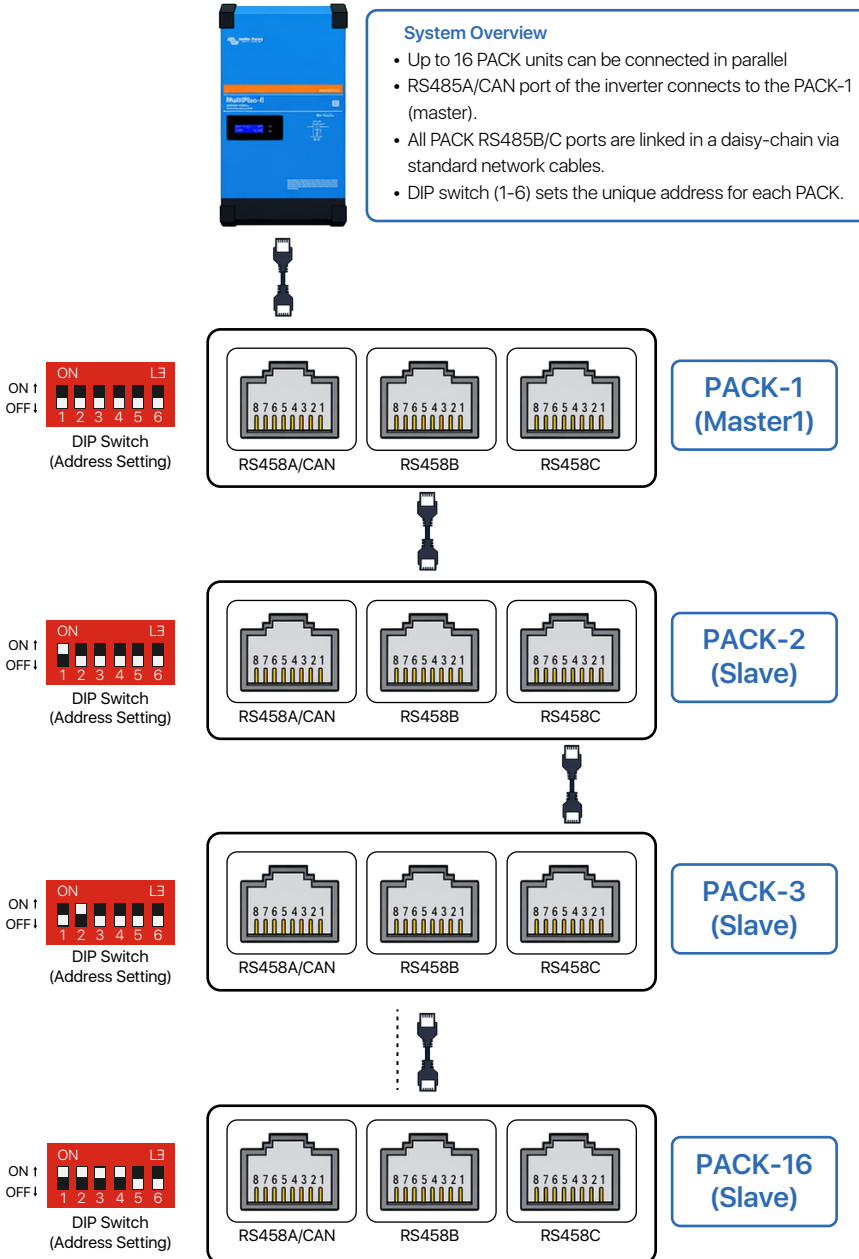
Please refer to the table below to set the DIP switch for parallel connection of different batteries.



Important: In a parallel system, every battery must have a unique DIP switch address between 1–15. Duplicate addresses will cause communication failure.

6-BIT							
Address	Dip Switch Position						Illustration
	#1	#2	#3	#4	#5	#6	
0	OFF	OFF	OFF	OFF	OFF	OFF	
1	ON	OFF	OFF	OFF	OFF	OFF	
2	OFF	ON	OFF	OFF	OFF	OFF	
3	ON	ON	OFF	OFF	OFF	OFF	
4	OFF	OFF	ON	OFF	OFF	OFF	
5	ON	OFF	ON	OFF	OFF	OFF	
6	OFF	ON	ON	OFF	OFF	OFF	
7	ON	ON	ON	OFF	OFF	OFF	
8	OFF	OFF	OFF	ON	OFF	OFF	
9	ON	OFF	OFF	ON	OFF	OFF	
10	OFF	ON	OFF	ON	OFF	OFF	
11	ON	ON	OFF	ON	OFF	OFF	
12	OFF	OFF	ON	ON	OFF	OFF	
13	ON	OFF	ON	ON	OFF	OFF	
14	OFF	ON	ON	ON	OFF	OFF	
15	ON	ON	ON	ON	OFF	OFF	

6.5 Inverter with Parallel PACK Connections



7. Operation

7.1 Check Before Power on

- Ensure all positive and negative cables, as well as communication lines, are correctly and securely connected.
- Check the battery is firmly installed, easy to operate and maintain, and check ventilation.
- Insulate the unused ports.

7.2 Power on

- Turn on the switch on the battery.
- The green running LED is normal on(Check the status of the LED indicators)
- If it is failed to switch on the battery system, check if all the electrical connection is correct.
- If the electrical connection is correct, but the battery system is still unable to switch on, contact our after-sale service within 48 hours

SOC 4	SOC 3	SOC 2	SOC 1		
					
				ALM	RUN

LED Indicator Status

Status	Charging				Status	Discharge			
Capacity Indicator	SOC 4	SOC 3	SOC 2	SOC 1	Capacity Indicator	SOC 4	SOC 3	SOC 2	SOC 1
0-25%	Flash 2	OFF	OFF	OFF	0-25%	Light	OFF	OFF	OFF
25-50%	Light	Flash 2	OFF	OFF	25-50%	Light	Light	OFF	OFF
50-75%	Light	Light	Flash 2	OFF	50-75%	Light	Light	Light	OFF
75-100%	Light	Light	Light	Flash 2	75-100%	Light	Light	Light	Light
Indicator Light	Light				Indicator Light	Flash 3			

Flashing Definition

Item	Light	OFF
Flash 1	0.25 s	3.75 s
Flash 2	0.5 s	0.5 s
Flash 3	0.5 s	1.5 s

Status	Normal/warning/ protection	RUN	ALM	Battery capacity LH)	Specification
		●	●	● ● ● ● ●	
Power off	Sleep	OFF	OFF	ALL OFF	
Stand by	Normal	Flash 1	OFF	Display according to the actual SOC	
	Warning	Flash 1	Flash 2		
Charging	Normal	Light	OFF		
	Warning (Not including temperature)	Light	OFF		
	Overcharging protection	Flash 2	OFF		ALM OFF when protected during overcharging
	Over current protection	Light	OFF		
	Over Temperature, Low-temperature	OFF	Light		
Discharging	Normal	Flash 3	OFF		
	Warning	Flash 3	Flash 2		ALM OFF when discharge overcurrent
	Over discharge Protection	OFF	Flash 2		ALM OFF when protected during overcharging
	Over Temperature, Low-temperature 、 Over current、 Shot Circuit、 Reverse Polarity Protection	OFF	Light		
Invalidation	Error	OFF	Light	ALL OFF	Error refers to hardware defection such as BMS voltage sampling device,charging MOS damage, tempera ture sensor disconnection, etc..

8. Operation of Bluetooth

BASENGREEN 48V battery pack is equipped with a Bluetooth function, supports APP monitoring battery statuses. All battery information, such as state of charge, voltage, operating current, temperature, and other operational data, is transmitted in real time via Bluetooth. These parameters can be viewed using the BASENGREEN App.

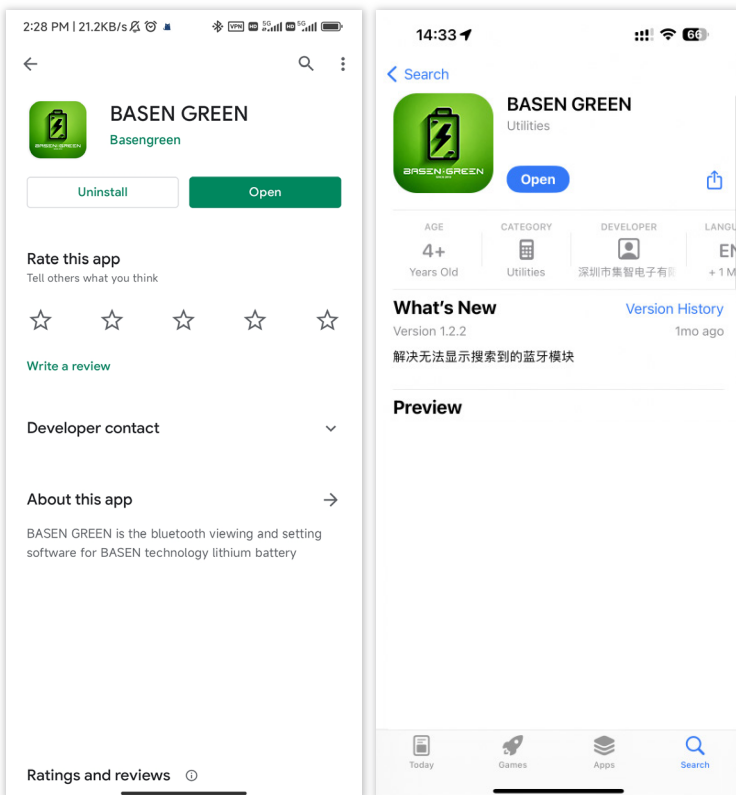
Download: Android: "BASENGREEN" in Play Store

iOS: "BASENGREEN" in Apple Store

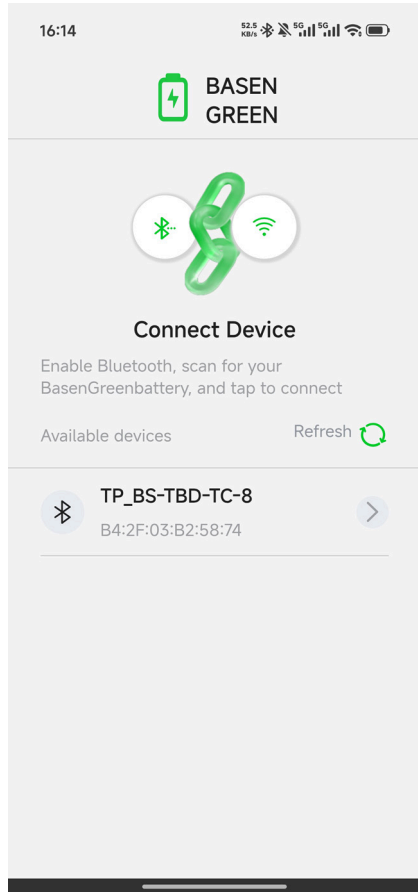
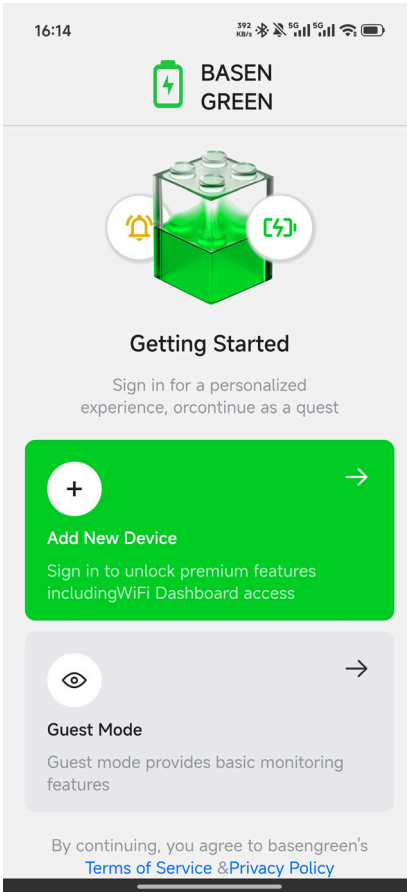
Bluetooth APP supports Android 8.0+ / iOS 12.0+, one device connection at a time.

8.1 Bluetooth

a. For Android users, please visit the Google Play Store and search for 'BASENGREEN'. For iOS users, go to the Apple Store and look up 'BASENGREEN'.



b. Turn on Bluetooth, click "Guest Mode", and search for the corresponding product's Bluetooth code

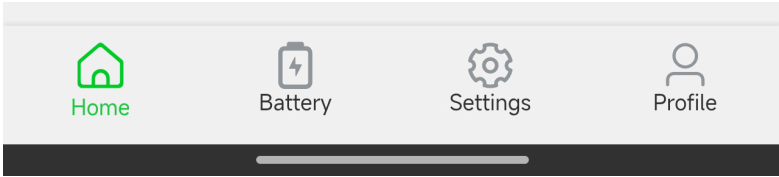


NOTE:

1.If you select a battery but the app does not confirm the connection, it may be because another device is already connected to the battery. Only one device connects to the battery at the same time.

2.The Bluetooth app supports status monitoring only and does not allow any modifications.

c. Menu



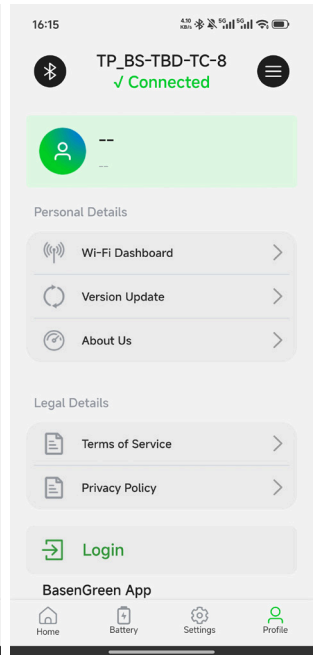
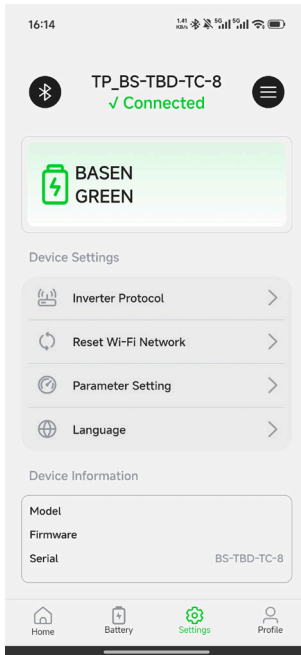
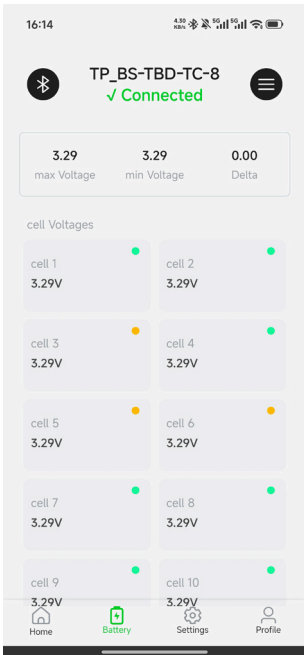
Bluetooth list: Check the Device list and connect it.

Homepage: Check the status of battery-SOC, Volt, Current, alarm status, etc.

Battery: Check the cell voltage and temperature info in detail.

Setting: Inverter Protocol, English/Chinese Language switching.

Profile: WiFi Dashboard(not available), Version Update(not available)



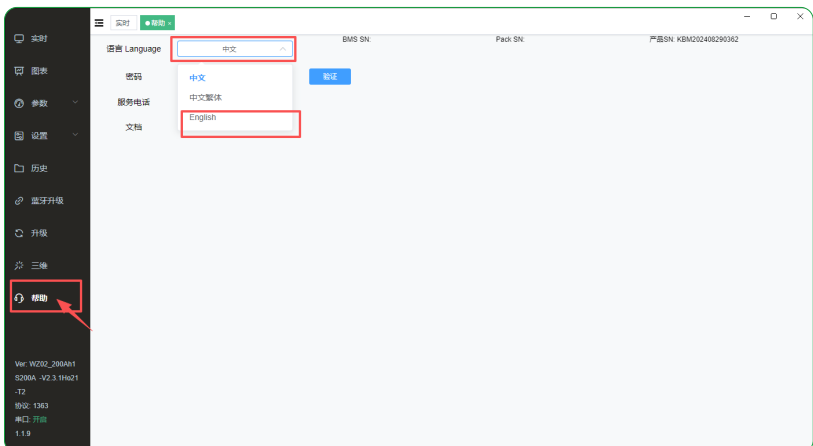
9. Operation of PC Monitoring Software

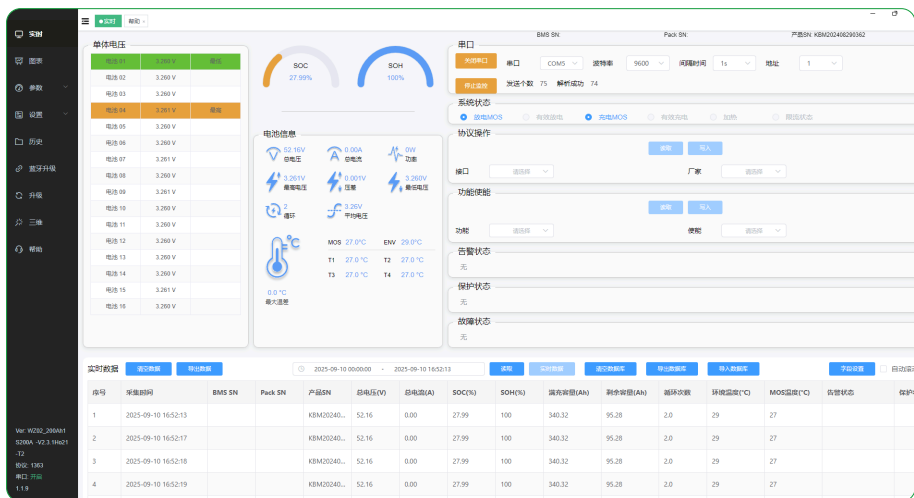
BASEN 48V battery pack supports to connect with our PC Monitoring Software to monitor the status of the battery and modify the communication protocol, please contact our sales representative or visit our website to get the latest PC Monitoring Software software.

9.1 Log in

- The PC Monitoring Software communication cable connects to the RS485 port on the battery and then to the USB port on the PC/Laptop
- Download and open the PC Monitoring Software software
- Modify the language
- Updated the status of battery automatically

Notice: If it is failed to connect to the PC Monitoring Software, check if all the connection is correct. If the connection is correct, but the PC Monitoring Software is still unable to work, please contact our after-sale service

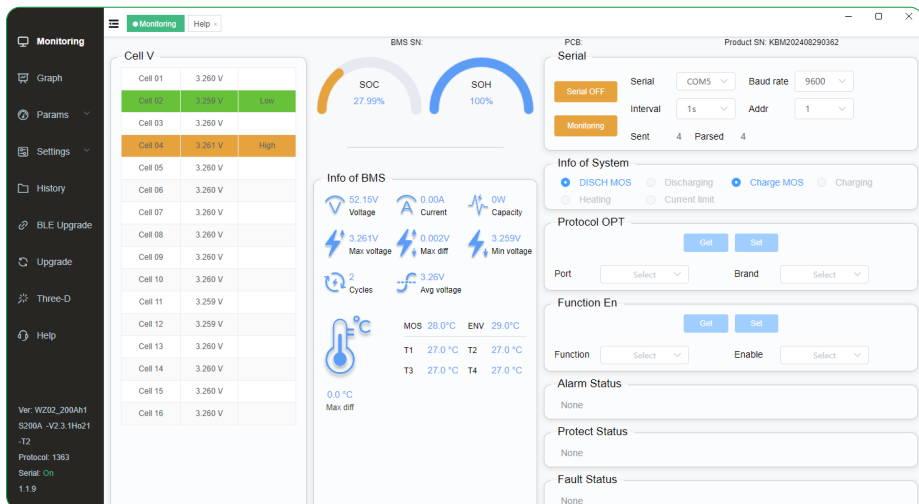




9.2 Switching communication protocols via PC

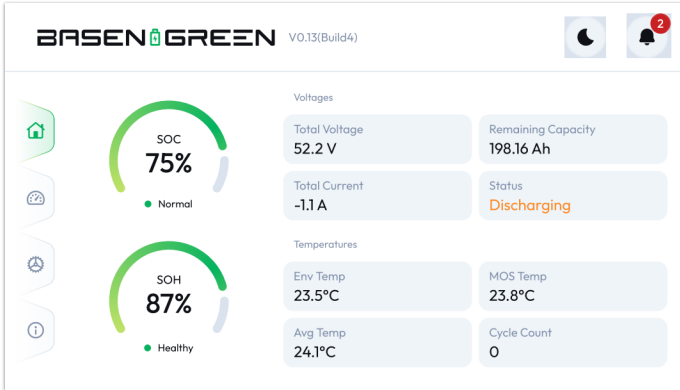
Connect to the PC Monitoring Software and follow the path:

Monitoring--Protocol OPT--Port--Brand--Set



9.3 Battery Screen Introduction

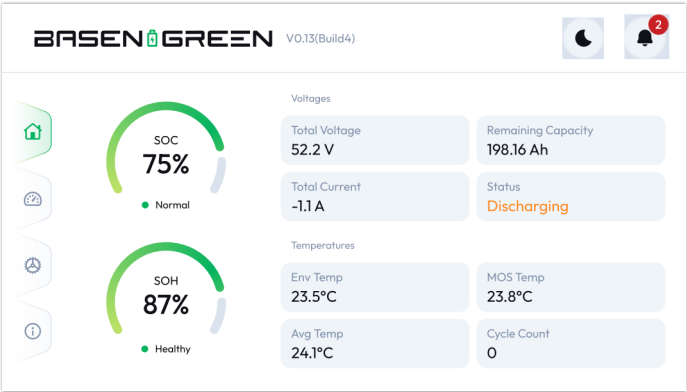
Home Page: Display total voltage, current, remaining capacity, SOC, SOH, temperature status, bms status, cycle count



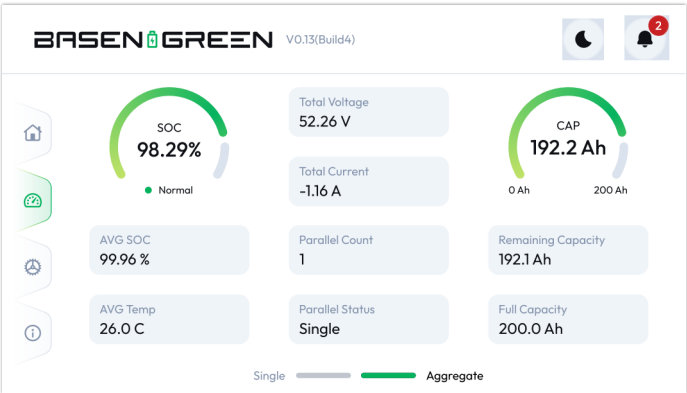
Notification Page(bell icon): Display BMS alarm/protection status



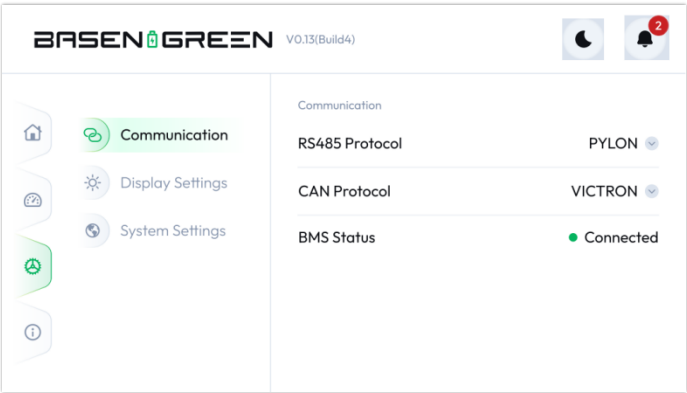
Detail Page 1: Displays cell voltage, maximum cell voltage, minimum cell voltage, average cell voltage, voltage difference, temperature, and device dip address



Detail Page 2(Swipe left): Displays total parallel voltage, current, remaining capacity, SOC, SOH, temperature, and number of parallel units



Setting Page 1-Communication: Configure inverter communication using CAN or RS485 protocols; display BMS status and parallel operation status.



Setting Page 2-Display Settings: Set the display backlight time and theme(dark/light)

BASENGREEN

VO.13(Build4)

Home

Communication

Display Settings

System Settings

Display Settings

Theme

☒ Light
 ☐ Dark

Timeout

1 min

▼

Setting Page 3-System Settings: Set language(17 languages), temperature units, volume units, and voltage units

BASENGREEN

VO.13(Build4)

Home

Communication

Display Settings

System Settings

Language & Units

Language

English

▼

Temperature

°C

▼

Capacity

Ah

▼

Voltage

V

▼

BASENGREEN

VO.13(Build4)

Home

Communication

Display Settings

System Settings

☒ Englisch
 ☐ Chinese
 ☐ العربية

☐ Nederlands
 ☐ Français
 ☐ كوردی سۆزانی

☐ Español
 ☐ Italiano
 ☐ Polski

☐ Română
 ☐ Dansk
 ☐ Nederlands

☐ Čeština
 ☐ Íslenska
 ☐ हिन्दी

☐ Русский
 ☐ Українська

Save & Close

Version Page: Display model, SN code, software/hardware version, and time



9.4 Communication Compatible List

BASEN BMS Inverter Communication Protocol Matching Table									
Inverter Brand	Communication methods	Protocol Name	Typical models	Protocol Notes	Baud rate	Inverter wiring	BMS Definition	BMS dial switch	Remark
Growatt	CAN	Growatt BMS CAN-Bus-protocol-iov-voltage-V1.05	SPF/SPH series	Active upload	500K	4H, 5L	4H, 5L		
Goodwe	CAN	Goodwe-CAN-V1.7-220228-SolarverterFamily-EN	GW series	Active upload	500K	4H, 5L	4H, 5L		
Volttronic	485	Volttronic-485-V1.0.3-200325		MODBUS	9600	3B, 5A	1B, 2A		
Sofar	CAN	Sofar-CAN-V1.00-211117-Rev6		Active upload	500K	1H, 2L	4H, 5L		
Sorotec	CAN	CAN protocol 10(Sorotec CAN protocol)		Active upload	500K		4H		
Growatt	485	Growatt_BMS_RS485_protocol_1xSxP_ESS_V2.01		MODBUS	9600	1B, 2A	1B, 2A		
Deye	CAN	Deye LV-CAN communication protocol	SUN series	Active upload	500K	4H, 5L	4H, 5L		
Deye	485	485 Modbus Protocol4-deye	SUN series	MODBUS	9600	1B, 2A	1B, 2A		
Solis	CAN	Solis-CAN-V10-191228-lovVoltage		Active upload	500K	4H, 5L	4H, 5L		
Lux Power	CAN	Luxpowertek Battery CAN Protocol_2021	LXP	Active upload	500K	4H, 3L	4H, 5L		
Pylon	485	Pylon-485-V35-161216-lova voltage protocol		1363	115200				
Pylon	485	Pylon-485-V3.5-161216-low voltage protocol		1363	9600				
Pylon	CAN	Pylon-CAN-V1.2-180408-lovVoltage		Active upload	500K		4H, 5L		
Sol-Ark	CAN	Sol-Ark CANBus Protocol V1.2.pdf 4-25-22		Active upload	500K		4H, 5L		
SRNE	485	shuori BMS Modbus Protocol for RS485V1.3(2020-11-24)	HF4850S80	MODBUS	9600	7A, 8B	1B, 2A		

Inverter Brand	Communication methods	Protocol Name	Typical models	Protocol Notes	Baud rate	Inverter wiring	BMS Definition	BMS dial switch	Remark
MUST	CAN	PV180OF-CAN communication Protocol1.04.04	PH1800	Active upload	100K	6H, 5L	4H, 5L		
SMA	CAN	SMA--CAN_V1.0.0-210630-FSS-ConnectingBat-TI-en-2Dw	Si44M-80H	Active upload	500K	4H, 5L	4H, 5L		
Megarevo	CAN	Megarevo_5K_EMS protocol V1.01		Active upload	500K		4H- 5L		
MPP Sola	485	BMS 485communication protocol 20200325(2)		MODBUS	9600		1B, 2A		
Kstar	CAN	Kstar CAN_Protocol-V1.11		Active upload	500K		4H, 5L		
Senergy	CAN	SenergyINV&BMS_CAN_Protocols		Active upload	500K	7H, 8L	4H, 5L		
Victron	CAN	Victron-CAN-V1.00-211135		Active upload	500K	7H, 8L	4H, 5L		
Schneider	CAN	Version 2 SE BMS Communication Protocol		Active upload	500K		4H, 5L		
Aiswei	CAN	Aiswei battery protocol V1.0		Active upload	500K		4H, 5L		Optional protocols, upgrade software support
SMK	485	Lithium Battery Protocol GT Version 20220510		MODBUS	9600		1B, 2A		Optional protocols, upgrade software support
Foxxess	CAN	Pylon-CAN-V1.2-180408-lovVoltage		Active upload	500K		4H, 5L		
SolarMax	CAN	Pylon-CAN-V1.2-180408-lovVoltage		Active upload	500K		4H, 5L		
TechFine	485	Growatt_BMS_RS485_protocol_1xSxxP_ESS_V2.01		MODBUS	9600		1B, 2A		
Nextpower	485	Pylon-485-V3.5-161216-low voltage protocol		MODBUS	9600		1B, 2A		
Afore	CAN	Pylon-CAN-V1.2-180408-lovVoltage		Active upload	500K		4H, 5L		
Sieyuan	CAN	Pylon-CAN-V1.2-180408-lovVoltage		Active upload	500K		4H, 5L		
INVT	CAN	Pylon-CAN-V1.2-180408-lovVoltage		Active upload	500K		4H, 5L		
SAJ	CAN	Pylon-CAN-V1.2-180408-lovVoltage		Active upload	9600		4H, 5L		
Sermatec	CAN	Pylon-CAN-V1.2-180408-lovVoltage		Active upload	500K		4H, 5L		
SAKO	485	Voltronic-485-V1.0.3-200325		MODBUS	9600	3B, 5A	1B, 2A		
Gospower	485	Voltronic-485-V1.0.3-200325		MODBUS	9600	3B, 5A	1B, 2A		
SolaX Power	CAN	Pylon-CAN-V1.2-180408-lovVoltage		Active upload	9600		4H, 5L		
Redback	485	Pylon-485-V3.5-161216-low voltage protocol		MODBUS	115200		1B, 2A		
SolarMax	CAN	Pylon-CAN-V1.2-180408-lovVoltage		Active upload	500K		4H, 5L		
Kehua	CAN	Pylon-CAN-V1.2-180408-lovVoltage		Active upload	500K		4H, 5L		
TBB	CAN	Pylon-CAN-V1.2-180408-lovVoltage		Active upload	500K		4H, 5L		
MEGAREVO	CAN	Pylon-CAN-V1.2-180408-lovVoltage		Active upload	500K		4H, 5L		
SAJ	485	Pylon-485-V3.5-161216-low voltage protocol		MODBUS	9600		1B, 2A		
Anenji	485	Pylon-485-V3.5-161216-low voltage protocol		MODBUS	9600		1B, 2A		
Felicity	485	144-YQY RS485 Modbus V1.1		MODBUS	9600		1B, 2A	pull 1 and 5	PCS : 5B, 6A

10. Storage

- a. External terminals of the battery pack are insulated and protected.
- b. If the battery pack is stored for a long period of time without use, it is recommended that it be charged 30%-60%, and it is prohibited to store it completely uncharged.
- c. Batteries stored for over 3 months should be recharged for 2-3 hours at a rate of 0.2C to 0.3C.
- d. Batteries should be stored in a dry, clean, well-ventilated environment free from corrosive gases, away from sources of ignition and direct sunlight.
- e. Do not store or expose the battery to temperatures above 60°C for extended periods, as this may cause performance deterioration and reduce lifespan.

11. Warning

To prevent possible battery leakage, heat generation, and explosion, please observe the following

Warning!

- a. It is strictly forbidden to immerse the battery in seawater or water. When not in use, it should be placed in a cool and dry environment;
- b. Do not drop, knock, or step on the battery pack under any circumstances
- c. It is forbidden to use metal to directly connect the positive and negative electrodes of the battery to a short circuit;
- d. Do not transport or store batteries together with metal objects such as hairpins, necklaces, etc.
- e. Do not drop, knock, or step on the battery pack under any circumstances.
- f. It is forbidden to directly weld the battery and pierce the battery with nails or other sharp objects.

Attention!

- a. It is forbidden to use or place the battery under high temperatures (in the hot sun or in a very hot car), otherwise, it may cause the battery to overheat, catch fire or fail to function, and shorten its life; the recommended temperature for long-term battery storage is 10–45°C;
- b. It is forbidden to throw batteries into fires or heaters to prevent fire, explosion, and environmental pollution. Scrapped batteries should be returned to the supplier or battery recycling point for disposal;
- c. Do not use it in places with strong static electricity and strong magnetic fields, otherwise it will easily damage the battery safety protection device and bring unsafe hidden dangers;
- d. If the battery leaks and the electrolyte gets into your eyes, do not rub them. Immediately rinse your eyes with clean water and seek medical attention. If the battery emits an odor, heats up, discolors, deforms, or exhibits any abnormality during use, storage, or charging, immediately remove it from the device or charger and stop using it.
- e. It is forbidden to insert the positive and negative poles of the battery directly into the power socket, and a special charger for lithium-ion batteries must be used;
- f. Check the battery voltage and connectors before installation, and only use the battery if everything is normal;
- g. The battery should be stored at half charge. If it has not been used for three months, it should be recharged once.
- h. If the electrode is dirty, it should be wiped with a dry cloth before use. Otherwise, it may cause poor contact and function failure;

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