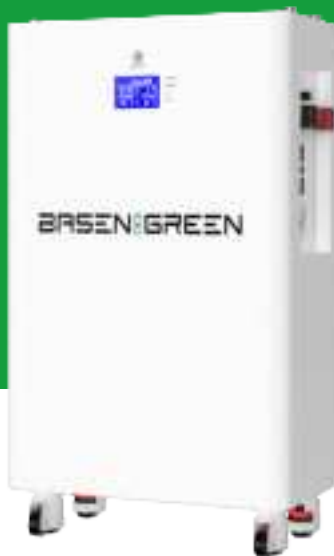

Wall Mounted Battery

Pack Installation & Operation Manual

BR-OW-LV 11.77KWH

BR-OW-LV 14.33KWH

BR-OW-LV 15.36KWH



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 of SHENZHEN BASENGREEN TECHNOLOGY CO.LTD (hereinafter referred to as BASENGREEN). 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 the manual do not represent all the safety matters that should be observed, but are only supplementary to the safety precautions. When installing, operating, and maintaining equipment, local safety regulations and norms should be followed. Only trained professionals can install, operate and maintain equipment. Our company does not assume any responsibility for losses caused by violation of general safety operation requirements or violation of safety standards for the design, production, and use of equipment. Installation and maintenance personnel must have high-voltage and AC power operation skills. When installing, operating, and maintaining equipment, they must not wear any conductive objects, such as watches, bracelets, bracelets, and 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 contact or indirect contact with high-voltage power supply through wet objects will cause fatal danger.

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 hot-line work.

DC short circuit Danger

The power system provides a DC-regulated power supply, and a DC short circuit will damage the equipment and cause personal injury.

2. Label Explanation

The label contains the following information



Guangdong Basengreen New Energy Co.,Ltd

Product Name	Rechargeable LiFePO4 Battery
Product Model	BR-OW-LV 11.77KWH
Battery Voltage Operation Range	43.2Vdc-58.4Vdc
Maximum Charge Current	200A
Maximum Discharge Current	200A
Rated Capacity	230Ah/51.2V/11776Wh
Ingress Protection	IP55
Protective Class	1

SN: CE UN38.3











DANGER
DANGER LOW DC VOLTAGE INSIDE
DANGER ARC FLASH & SHOCK HAZARD







- Do not disconnect or disassemble by non-professional personnel.
- Do not drop, deform, hit or pierce with sharp objects.
- Do not place at a children or pet touchable area.
- Do not place near open flame or flammable material.
- Do not cover or wrap the product case.
- Do not sit or put any object on battery.
- Avoid direct sunlight.
- Avoid moisture or liquid.
- The product ingress Protection (IP) class is IP55.
- Make sure the grounding connection is correct before operation.
- Follow the product manual to make wiring connection.
- If leaking, fire, wet or damaged, switch off the breaker on DC side and stay away from battery. Do not touch the leaking liquid.
- Contact your supplier within 24 hours if any failure happens.




Guangdong Basengreen New Energy Co.,Ltd

Product Name	Rechargeable LiFePO4 Battery
Product Model	BR-OW-LV 14.3KWH
Battery Voltage Operation Range	43.2Vdc-58.4Vdc
Maximum Charge Current	200A
Maximum Discharge Current	200A
Rated Capacity	280Ah/51.2V/14336Wh
Ingress Protection	IP55
Protective Class	1


SN: CE UN38.3



DANGER
DANGER LOW DC VOLTAGE INSIDE
DANGER ARC FLASH & SHOCK HAZARD







- Do not disconnect or disassemble by non-professional personnel.
- Do not drop, deform, hit or pierce with sharp objects.
- Do not place at a children or pet touchable area.
- Do not place near open flame or flammable material.
- Do not cover or wrap the product case.
- Do not sit or put any object on battery.
- Avoid direct sunlight.
- Avoid moisture or liquid.
- The product ingress Protection (IP) class is IP55.
- Make sure the grounding connection is correct before operation.
- Follow the product manual to make wiring connection.
- If leaking, fire, wet or damaged, switch off the breaker on DC side and stay away from battery. Do not touch the leaking liquid.
- Contact your supplier within 24 hours if any failure happens.




Guangdong Basengreen New Energy Co.,Ltd

Product Name	Rechargeable LiFePO4 Battery
Product Model	BR-OW-LV 15.36KWH
Battery Voltage Operation Range	43.2Vdc-58.4Vdc
Maximum Charge Current	200A
Maximum Discharge Current	200A
Rated Capacity	300Ah/51.2V/15360Wh
Ingress Protection	IP55
Protective Class	1

SN: CE UN38.3



DANGER
DANGER LOW DC VOLTAGE INSIDE
DANGER ARC FLASH & SHOCK HAZARD

- Do not disconnect or disassemble by non-professional personnel.
- Do not drop, deform, hit or pierce with sharp objects.
- Do not place at a children or pet touchable area.
- Do not place near open flame or flammable material.
- Do not cover or wrap the product case.
- Do not sit or put any object on battery.
- Avoid direct sunlight.
- Avoid moisture or liquid.
- The product ingress Protection (IP) class is IP55.
- Make sure the grounding connection is correct before operation.
- Follow the product manual to make wiring connection.
- If leaking, fire, wet or damaged, switch off the breaker on DC side and stay away from battery. Do not touch the leaking liquid.
- Contact your supplier within 24 hours if any failure happens.

3. Product Description

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

4. Product Advantages

- Built-in Battery Management System (BMS):** Overcharge, overdischarge, overcurrent, temperature control, short circuit and other protection functions.
- Passive Balance Function:** There is a voltage equalization function during the charging.
- High Cost Performance:** High safety performance, long service life, stable and reliable quality.
- Expandable:** Equipped with RS232/ RS485/ CAN bus ports, support up to 15 units in parallel.

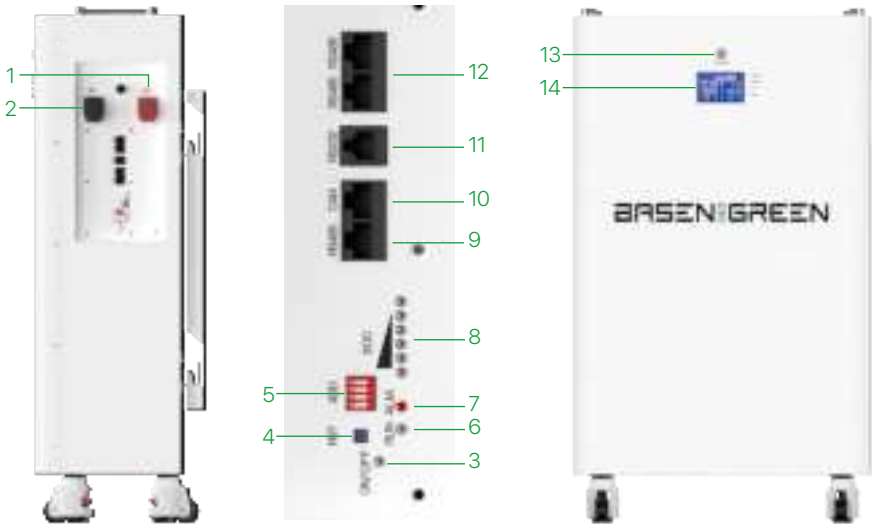
- e. Wide Working Temperature: -20 C to 60 C , excellent high-temperature discharge performance.
- f. Convenient: Modular design, small size and lightweight, easy to install and maintain.

5. Product Technical Parameters

5.1 Specification

Item	Specifications		
Model	BR-OW-LV 11.77KWH	BR-OW-LV 14.33KWH	BR-OW-LV 15.36KWH
Nominal Voltage	51.2V	51.2V	51.2V
Operating Voltage	43.2V-57.6V	43.2V-57.6V	43.2V-57.6V
Nominal Capacity	230AH	280AH	300AH
Total Energy	11776Wh	14336Wh	15360Wh
Configuration	1P16S	1P16S	1P16S
Charging Cut-off Voltage	58.4V	58.4V	58.4V
Discharge Cut-off Voltage	43.2V	43.2V	43.2V
Operation Temperature	-20 C ~60 C	-20 C ~60 C	-20 C ~60 C
Standard Charging Current	50A	50A	50A
Max Continuous Charging Current	200A	200A	200A
Max Continuous Discharge Current	200A	200A	200A
Dimension	500*232*670mm	500*255*770mm	500*255*770mm
Net weight	98KG	112KG	112KG

5.2 Interface Overview



Position	Item	Description
1	P+	The positive terminal of the battery, can be connected to the positive pole of the inverter through a cable for DC output.
2	P-	The negative terminal of the battery, can be connected to the negative pole of the inverter through a cable for DC output.
3	Power Indicator	Turn on then light-on, turn off then light-off
4	RST	Manual-return switch button
5	ADD	Setting up battery parallel communication and inverter communication
6	RUN	Indicating the normal operation status of the battery
7	Alarm	Indicating the abnormal state of the battery, if there is an low voltage or over voltage, the alarm will sound.
8	SOC	6 indicators, indicating the remaining power status.
9	RS485 A	RS485 port for the inverter or the upper system communication
10	CAN	CAN port for the inverter communication
11	RS232	Communication port for the upper system.
12	RS485 B/C	RS485 port for parallel communication

13	Power switch	The switch for turn on/turn off the battery pack.
14	LCD Screen	Display battery voltage, SOC, temperature, etc.

5.3 Battery Management System (BMS)

5.3.1 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 over charging 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 over charging recovery value, the over charging protection state is released. It can also be released by discharging to return to normal state.

5.3.2 Overdischarge 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 overdischarge protection state, the discharge MOS is turned off, and the battery cannot be discharged. After the overdischarge protection of the battery pack occurs, it can be released by charging the battery pack.

5.3.3 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.

5.3.4 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.

5.3.5 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.

6. Installation and configuration

6.1 Packing

- a. After receiving the battery, open the box to check the battery surface if get any broken, cracks or other bad phenomena; if get that, please do not install, and need to contact the supplier, and wait for the supplier's reply before proceeding to the next step.
- b. 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



M8*12mm
combination screws*2



Inverter
communication cable*1







Parallel
communication cable*1



Upper system
communication cable*1

6.2 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

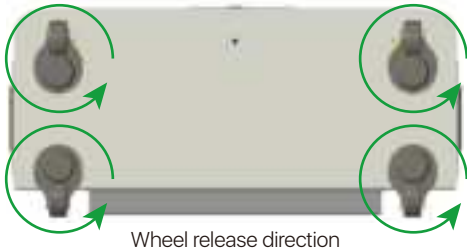
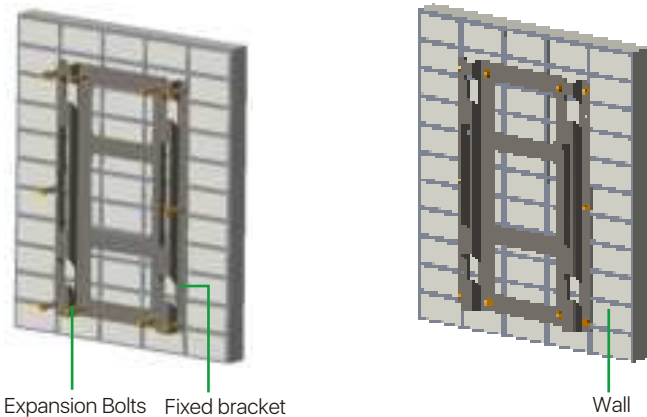
6.3 Notice for Installation

- The wall for installation should be a solid brick or cement wall with a strong load-bearing capacity, and the thickness of the wall should not be less than 100mm.
- In indoor installation, it needs to leave enough space to be installed and operated easily and pay attention to ventilation. Do not place flammable materials around the battery.
- In outdoor installation, it needs to be surrounded by protective measures, and make a rain protection.

6.4 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 driller. 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:

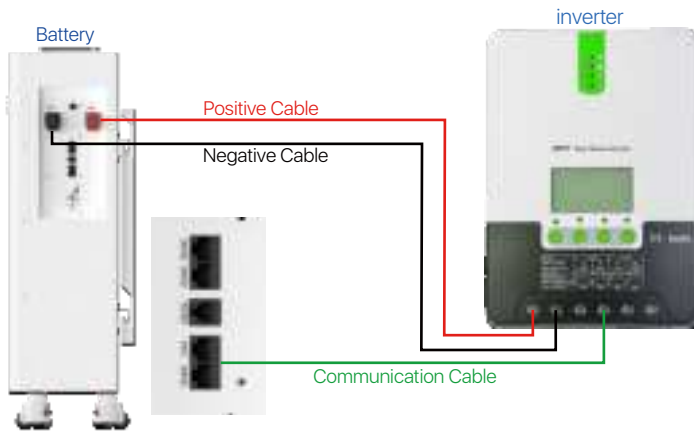
Installation Diagram



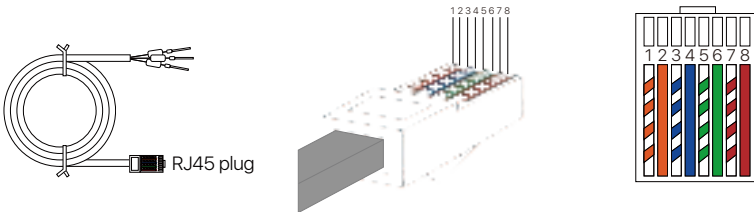
7. Connection

7.1 Precautions Before Connecting The Inverter

- Use a multi-meter to measure whether connection of the positive and negative cables are conducting, and check whether that connections are loose.
- The battery should be switched off before wiring to ensure that there is no DC output from the battery.
- Connect positive terminals of the battery and the inverter with red power cable, and then connect negative terminals of both sides with 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.

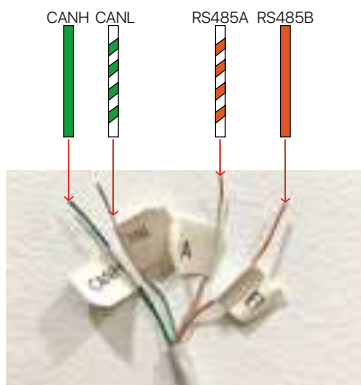
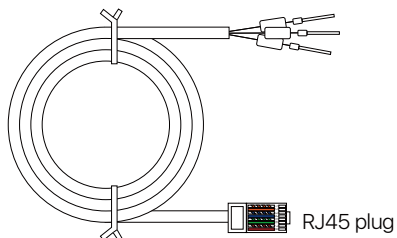






Communication cable connection Pin definition is as follows:



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

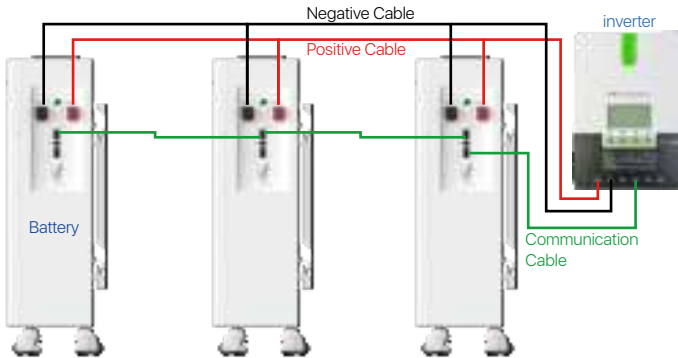
7.2 RJ45 Connector Diagrams of Inverter's port



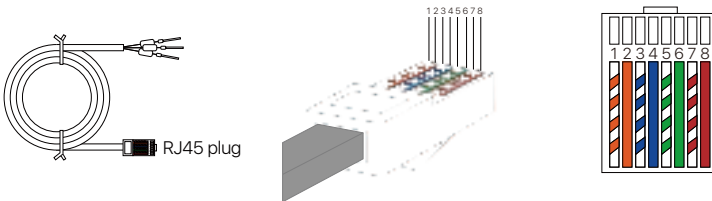
RJ45 Connector Diagrams	Communication
 <p>Inverter</p> <p>Brand: DEYE, Growatt, Goodwe, Solis</p>	<p>CANH->pin4</p> <p>CANL->pin5</p>
 <p>Inverter</p> <p>Brand: Victron</p>	<p>CANH->pin7</p> <p>CANL->pin8</p>
 <p>Inverter</p> <p>Brand: Pylon, Growatt</p>	<p>RS485B->pin1</p> <p>RS485A->pin2</p>
 <p>Inverter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

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

- 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 positive terminals of the battery and the inverter with red power cable, and then connect negative terminals of both sides with 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.



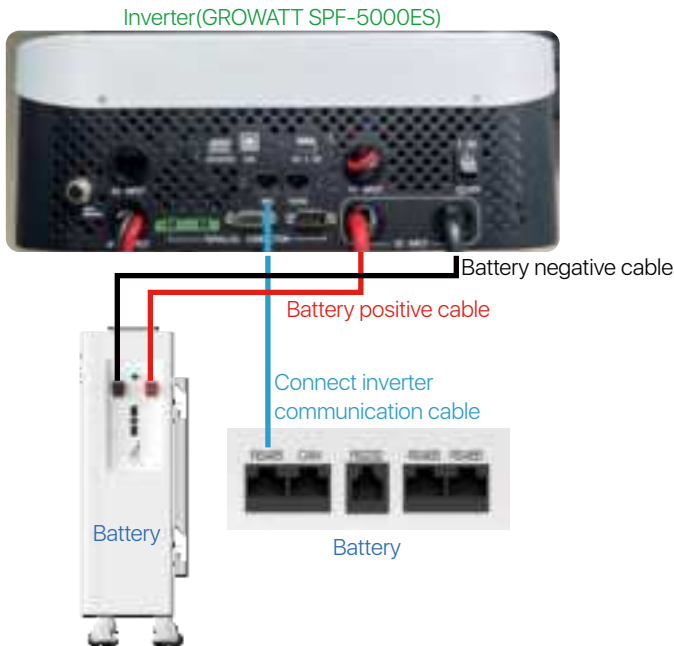
Parallel communication cable connection Pin definition is as follows:



RS485 Parallel communication interface definition	PIN	1	2	3	4	5	6	7	8
	Define	RS485 -B	RS485 -A	GND	NC	NC	GND	RS485 -A	RS485 -B

7.4 Battery & Inverter Connection

Connect the positive and negative cables of the battery to the positive and negative terminals of the DC input of the inverter, insert the RJ45 crystal plug at one end of the distributed inverter communication cable to the RS485 of the battery, and connect the other end to the BMS terminal of the inverter according to the defined line voltage, and then connect the battery to the inverter.
























7.5 Dip Code Switch Definition and Setting

ADD switch is a 4-bit DIP switch to manually distribute the communication address of parallel batteries.

The BMS will only recognize the DIP address once it is reset, so please reset the BMS when the DIP address is changed (the BMS must be reset in the standby state). When the DIP address is 0, the battery is configured as the stand-alone working mode; when the DIP address is 1, the BMS is configured as the master working mode; when the DIP address is 2 to 6, 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.

Battery pack	Master	Slave 2	Slave 3	Slave 4	Slave 5	Slave 6
1						
2						
3						
4						
5						
6						

8. Operation

8.1 Check Before Power on

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

8.2 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

LED Indicator Status

Status	Charging					
Capacity Indicator	L1●	L2●	L3●	L4●	L5●	L6●
0~16.6%	Light	OFF	OFF	OFF	OFF	OFF
16.6~33.2%	Light	Light	OFF	OFF	OFF	OFF
33.2~49.8%	Light	Light	Light	OFF	OFF	OFF
49.8~66.4%	Light	Light	Light	Light	OFF	OFF
66.4~83.0%	Light	Light	Light	Light	Light	OFF
83.0~100%	Light	Light	Light	Light	Light	Light

Status	Discharge					
Capacity Indicator	L1●	L2●	L3●	L4●	L5●	L6●
0~16.6%	Light	OFF	OFF	OFF	OFF	OFF
16.6~33.2%	Light	Light	OFF	OFF	OFF	OFF
33.2~49.8%	Light	Light	Light	OFF	OFF	OFF
49.8~66.4%	Light	Light	Light	Light	OFF	OFF
66.4~83.0%	Light	Light	Light	Light	Light	OFF
83.0~100%	Light	Light	Light	Light	Light	Light

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

LED Flashing Faulty

Please turn to the next page



Status	Normal/warning/ protection	RUN	ALM	Battery capacity LED							Specification
		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>			
Power off	Sleep	OFF	OFF	ALL OFF							
Stand by	Normal	Flash1	OFF	Display according to the actual SOC							
	Warning	Flash1	OFF								
Charging	Normal	Flash2	OFF								
	Warning (Not including temperature)	Flash2	OFF								
	Over charging protection	Flash1	OFF								ALM OFF when protected during over charging
	Over Temperature, Low-temperature, Over current protection	Flash1	Flash2								
	Limited charging	Light	OFF								
	Discharging	Normal	Light								OFF
Warning		Light	Flash3								ALM OFF when discharge over current
Over discharge Protection		Flash1	OFF								ALM OFF when protected during over charging
Over Temperature, Low-temperature 、 Over current、 Shot Circuit、 Reverse Polarity Protection		Flash1	Flash2								
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.

9. Operation of Bluetooth

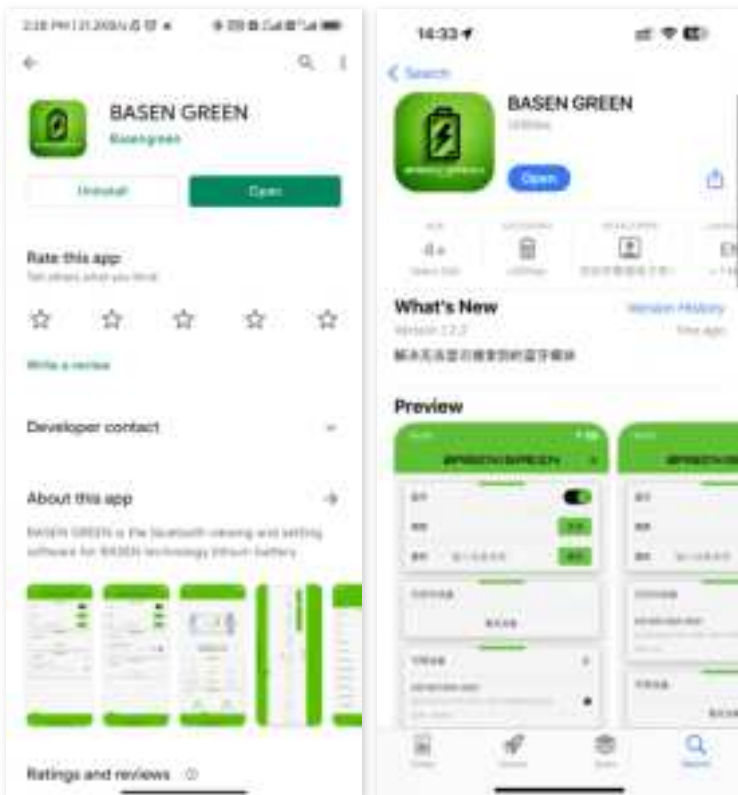
BASENGREEN 48V battery pack is equipped with a Bluetooth function, supports APP monitoring battery statuses. All information available in the battery, such as the state of charge, voltage, operating current, temperature, and other operating information are transmitted in real-time via the Bluetooth transmitter. The parameters can be made visible with the BASENGREEN App.

Download: Android: "BASENGREEN" in Play Store

iOS: "BASENGREEN" in Apple Store

9.1 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 and search for the corresponding product's Bluetooth code



NOTE:

- 1.If you selected a battery to connect to and the app doesn't confirm the connection, it might be someone else 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. It does not support any modified operation except communication protocol switching

c. Menu



Bluetooth list: Check the Device list and connect it.

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

Historical Data: Not available

Setting: Base Message: Check the pack voltage, current, cycle time, etc.

Cell Voltage: Check the cells voltage.

Language: English/Chinese switching.

Fault Data: Not available

System Parameter: Not available

Set up WiFi: Setup WiFi function(Not available)

Inverter configuration: Communication protocol switching(Chapter 9.2)

9.2. Operation of Communication Protocol Switch(Via Bluetooth App)

- Connect to the Bluetooth app first(Chapter 9.1)
- Swipe left to find 'Inverter Configuration'. Set unlock code is 8888888



- Choose the communication protocol and set, the battery pack will be restart after few second with “bee” sound. Then set up is successful.



10. Operation of Upper System

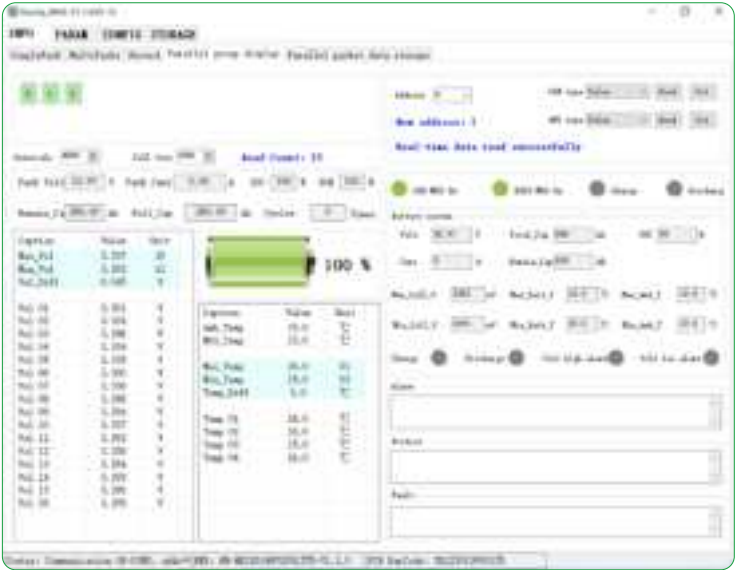
BASEN 48V battery pack supports to connect with our upper system to monitor the status of the battery and modify the communication protocol, please contact our sales representative or visit our website to get the latest upper system software.

10.1 Log in

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

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

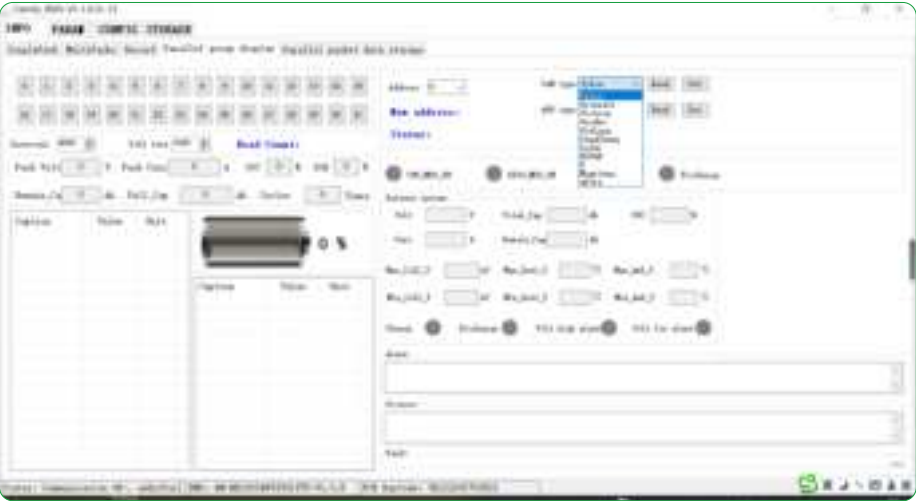




10.2 Operation of The Communication Protocol Switch

Connect to the upper system and follow the path:

INFO—Parallel Group Display—CAN Type/RS485 Type—Read—Choose the protocol—Set



10.3 Communication Compatible List

<div style="display: flex; justify-content: space-between; align-items: center;">  <div> 深圳市贝森科技有限公司 Shenzhen Baser Technology Co., Ltd </div> </div>						
BASEN BMS Inverter Communication Protocol Matching Table						
Brand/Model	Communication Protocol	Brand Name	Protocol Name	Protocol Version	Communication Baud Rate	Protocol Definition
德业/ Victron		CAN	Victron CAN V1.05-211130	Active Update	500K	19-20
古瑞瓦特-SPH Growatt-SPH		CAN	Growatt BMS-8000 protocol-100A-1022 Growatt 300A BMS protocol-V1.0	MT2000 Standard protocol	800K	18-20
古瑞瓦特-SPH Growatt-SPH		CAN	Growatt BMS-CAN Bus protocol low-voltage-V1.05	Active Update	500K	41-43
古瑞瓦特-SPH Growatt-SPH		CAN	Growatt BMS communication protocol of grouped five-voltage-V1.01	Active Update	500K	41-43
德业/Deye		CAN	Deye V1.0 CAN communication protocol	Active Update	500K	41-43
古邦/Goban		CAN	Growatt BMS CAN Bus protocol low-voltage-V1.05	Active Update	500K	41-43
古迪威/Goodwe		CAN	Goodwe CAN V1.1-000208-Subprotocol-V1.01	Active Update	500K	41-43
比邦/Beibang Energy		CAN	Beibang Energy-BMS-V1.01-000008	MT2000 protocol	800K	18-20
索尔/SOFAR		CAN	300AH-CAN-V1.00-211137-New	Active Update	500K	19-20
德业/Bata		CAN	Bata CAN-V1.01-011128-Active Update	Active Update	500K	41-43
林成/LINCOM		CAN	Lincomcan Battery CAN Protocol-V1.01	Active Update	500K	41-43
派能/Pyton		CAN	Pyton-405-V1.0-010210-low-voltage protocol	1.00	1000K	18-20
派能/Pyton		CAN	Pyton-405-V1.0-010210-high-voltage protocol	1.00	800K	18-20
派能/Pyton		CAN	Pyton CAN V1.0-000008-Active Update	Active Update	500K	41-43
德业/SANE		CAN	800A BMS Modbus Protocol for 800A V1.020001-V1.02	Modbus	800K	19-20
麦迪尔/Midit		CAN	Pyton-BMS CAN communication Protocol-V1.01	Active Update	500K	41-43
立源利/LYLA		CAN	80A-CAN-V1.01-210626-FSC-Communication-TX-to-BMS	Active Update	500K	41-43
索罗威/SOLOPEC		CAN	CAN Protocol-USB/OTG Protocol	MT2000 standard-protocol	500K	41-43
索罗威/SOLOPEC		CAN	Protocol between Solaris inverter and lithium Battery (800A)	Active Update	500K	18-20
拓尔/Thor		CAN	Thor-404 CAN Bus Protocol V1.0.0.04-05-02	Active Update	500K	41-43
古德威/GOODWE		CAN	Shenzhen MT2000-A3-Updated Goodwe-40-BMS Protocol-V1.01	Active Update	500K	41-43
中PP/Iske		CAN	400A-400 communication protocol-2020050201	Modbus	800K	18-20
比昂/BION		CAN	LMV-BUS Protocol of 700 Pyton Battery (BMS Protocol-V1.1)	Active Update	500K	41-43
古邦/Goban		CAN	Shenzhen/MAWU CAN Protocol	Active Update	500K	41-43

11. 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 that have been in storage for more than 3 months should be recharged for 2-3 hours at 0.2C~0.3C.
- d. Batteries should be stored in a dry, clean, ventilated, non-corrosive gas environment, away from sources of ignition, to avoid exposure to the sun.
- e. Do not store or put in high temperatures over 60°C for a long period of time, otherwise, it will cause function deterioration and life span reduction.

12. Warning

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

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. It is strictly forbidden to reverse the positive and negative poles to use the battery;
- c. It is forbidden to use metal to directly connect the positive and negative electrodes of the battery to a short circuit;
- d. It is forbidden to transport or store batteries together with metals, such as hairpins, necklaces, etc;
- e. It is forbidden to knock or throw, step on the battery, etc.;
- 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 enters the eyes, do not rub it. Immediately rinse the eyes with clean water and send them to the hospital for treatment, otherwise, the eyes will be hurt. If the battery emits an odor, heats up, discolors, deforms, or has any abnormality during use, storage, or charging, immediately remove the battery 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 use it only after everything is normal;
- g. The battery is stored in half power. If the battery has not been used for three months, it needs to 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;

Need additional information?

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