## Stackable Battery Pack

Pack Installation & Operation Manual

BR-BOX-LV 5KWH BR-BOX-LV 10KWH BR-BOX-LV 20KWH BR-BOX-LV 30KWH

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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.



#### **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**

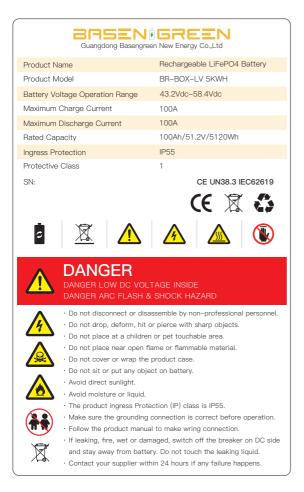
The power must be cut off first before operation, do not hot-line work.

#### 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



## 3. Product Description

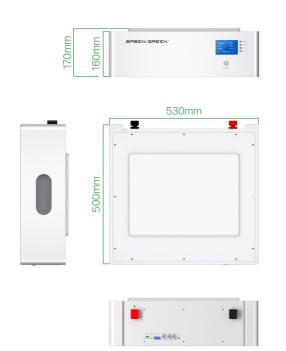
This product is a lithium iron phosphate battery (LFP LiFePO4) composed of 16 cells in series. Which is suitable for home energy storage systems. It can be customized according to customer needs to meet diverse application scenarios and provide stable power for various equipment of users.

## 4. Product Advantages

- a. Built-in Battery Management System (BMS): Overcharge, overdischarge, overcurrent, temperature control, short circuit and other protection functions.
- b. Passive Balance Function: There is a voltage equalization function during the charging.
- c. High Cost Performance: High safety performance, long service life, stable and reliable quality.
- d. 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 Product Appearance

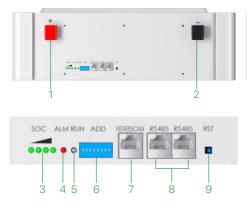




## 5.2 Specifications

ltem	Specifications								
Model	BR-BOX-LV 5KWH	BR-BOX-LV 10KWH	BR-BOX-LV 20KWH	BR-BOX-LV 30KWH					
Nominal Voltage	51.2V	51.2V	51.2V	51.2V					
Operating Voltage	43.2V-57.6V	43.2V-57.6V	43.2V-57.6V	43.2V-57.6V					
Nominal Capacity	100Ah	200Ah	400Ah	600Ah					
Total Energy	5120Wh	10240Wh	20480Wh	30720Wh					
Configuration	1P16S	(1P16S)*2	(1P16S)*4	(1P16S)*6					
Charging Cut-off Voltage	58.4V	58.4V	58.4V	58.4V					
Discharge Cut-off Voltage	43.2V	43.2V	43.2V	43.2V					
Operation Temperature	-20°C~60°C	-20℃~60℃	-20℃~60℃	-20°C~60°C					
Standard Charging Current	20A	40A	80A	100A					
Max Continuous Charging Current	100A	100A	100A	100A					
Max Continuous Discharge Current	100A	100A	100A	100A					
Dimension	615*532*187mm	530*500*425mm	530*500*745mm	530*500*1065mm					
Net weight	56KG	104KG	200KG	295KG					

## 5.3 Interface Overview





Position	ltem	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	SOC	4 indicators, indicating the remaining power status
4	Alarm	Indicating the abnormal state of the battery, if there is an low voltage or over voltage, the alarm will sound
5	RUN	Indicating the normal operation status of the battery
6	ADD	Setting up battery parallel communication and inverter communication
7	RS485/CAN	RS485/CAN port for the inverter or the upper system communication
8	RS485 B/C	RS485 port for parallel communication
9	RST	Manual-return switch button
10	Power switch	The switch for turn on/turn off the battery pack
11	LCD Screen	Display battery voltage, SOC, temperature, etc

#### 5.4 Battery Management System (BMS)

#### 5.4.1 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.

#### 5.4.2 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.

#### 5.4.3 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.

#### 5.4.4 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.

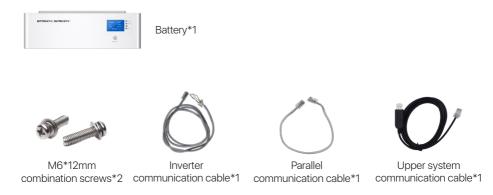
#### 5.4.5 Low Temperature Protection

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, crack, s 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:



C. The battery base is packed separately, each base is equipped with 4 horizontal adjustable universal wheels, customers can purchase the battery base according to the number of stacked packs, the load capacity of the base is 500KG, **support up to 8 units stacked**.



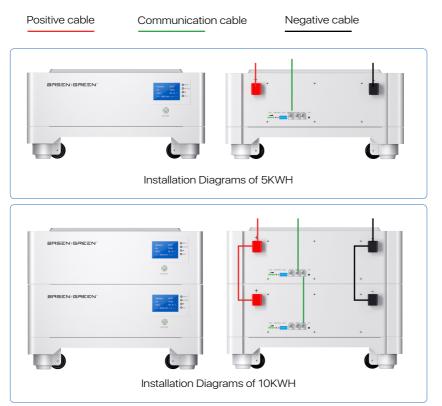


Support up to 8 units stacked

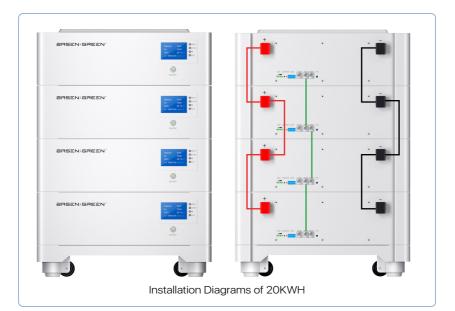
### 6.2 Installation Procedure

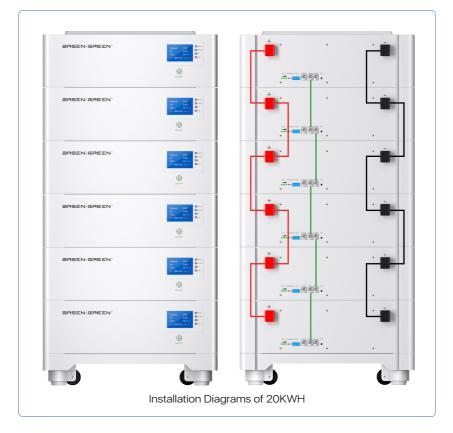
- a. Use a multi-meter to measure whether the positive and negative cable wires are conducting, and check whether the positive and negative terminal connections are loose.
- b. The battery should be switched off before wiring to ensure that there is no DC output from the battery.
- c. Connect positive terminals of the battery and the inverter with red power cable, and then connect negative terminals of both sides with black power cable.
- d. Connect both communication ports of the battery(RS485A/CAN) and the inverter(BMS port) with the comminication cable, BMS ports of inverter have different definition for some brands, pls check inverter manule.

Notice: The standard packing list does not include the parallel cable(positive and negative).



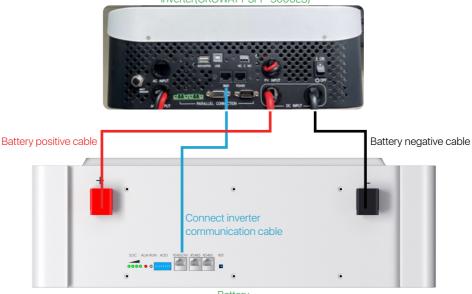
#### 6.3 Installation Diagrams





## 7. Connection

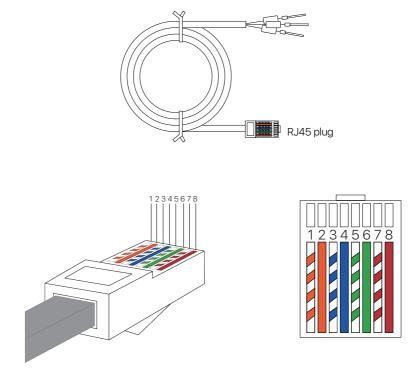
- 7.1 Precautions Before Connecting The Inverter
- a. Use a multi-meter to measure whether the positive and negative cable wires are conducting, and check whether the positive and negative terminal connections are loose.
- b. The battery should be switched off before wiring to ensure that there is no DC output from the battery.
- c. Connect positive terminals of the battery and the inverter with red power cable, and then connectnegative terminals of both sides with black power cable.
- d. The communication cable connects to the RS485/CAN port on the battery and then to the BMS port on the inverter.



#### Inverter(GROWATT SPF-5000ES)

Battery

### 7.2 Pin Definition



a. RS485/CAN Communication cable connection Pin definition is as follows:

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

b. Parallel Communication cable connection Pin definition is as follows:

PIN	1	2	3	4	5	6	7	8
Define	e RS485-B	RS485-A	GND	NC	NC	GND	RS485-B	RS485-A

### 7.3 Dip Code Switch Definition and Setting

ADD switch is an 8-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.

Number	Master1	Slave 2	Slave 3	Slave 4	Slave 5	Slave 6
1	ON DIP 1 2 3 4 5 6 7 8					
2	ON DIP 1 2 3 4 5 6 7 8	ON DIP 1 2 3 4 5 6 7 8				
3	ON DIP 1 2 3 4 5 6 7 8	ON DIP 1 2 3 4 5 6 7 8	ON DIP 1 2 3 4 5 6 7 8			
4	ON DIP 1 2 3 4 5 6 7 8	ON DP 1 2 3 4 5 6 7 8	ON DIP 1 2 3 4 5 6 7 8	ON DIP 1 2 3 4 5 6 7 8		
5	ON DIP 1 2 3 4 5 6 7 8	ON DP 1 2 3 4 5 6 7 8	ON DIP 1 2 3 4 5 6 7 8	ON DIP 1 2 3 4 5 6 7 8	ON DIP 1 2 3 4 5 6 7 8	
6	ON DIP 1 2 3 4 5 6 7 8	ON DP 1 2 3 4 5 6 7 8	ON DIP 1 2 3 4 5 6 7 8	ON DIP 1 2 3 4 5 6 7 8	ON DIP 1 2 3 4 5 6 7 8	ON DIP 1 2 3 4 5 6 7 8

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

## 8. Operation

#### 8.1 Check Before Power on

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

#### 8.2 Power on

- a. Turn on the switch on the battery.
- b. The green running LED is normal on(Check the status of the LED indicators)
- c. If it is failed to switch on the battery system, check if all the electrical connection is correct.
- d. 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

Sta	Status			Charging				Discharge			
Capacity	Capacity Indicator		L2●	L3●	L4●	L1●	L2•	L3●	L4●		
	0~25%	Flash	OFF	OFF	OFF	Light	OFF	OFF	OFF		
Battery	25~50%	Light	Flash	OFF	OFF	Light	Light	OFF	OFF		
Level	50~75%	Light	Light	Flash	OFF	Light	Light	Light	OFF		
	≥75%		Light	Light	Flash	Light	Light	Light	Light		
Normal Statu	Normal Status Indicator			ght			Flash				

## **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

Status	Normal/warning/	RUN	ALM	Batt	ery ca	pacity	LED	Specification
Sidius	protection	•			•	٠		
Power off	Sleep	OFF	OFF		ALL	OFF		
Stand by	Normal	Light	OFF		ALL	OFF		
	Normal	Light	OFF	Dis	splay a	iccord	ing	
	Over Current Alarm	Light	Flash 2	to	the ac	tual S0	C	
Charging	Over Voltage Protection	Flash 1	OFF		ALL OFF			
	Over temperature     /Over Current     Flash 1     Flash 1     ALL 0       Protection     Protection     Protection     Protection     Protection		OFF					
	Normal	Flash 3	OFF	Dis	splay a	iccord	ing	
	Alarm	Flash 3	Flash 3	to the actual SOC			C	
Discharge	Temperature/ Over Current /Short circuit Protection	OFF	Light				Cut-off Discharge	
	Low Voltage Protection	OFF	OFF			Cut-off Discharge		

## 9. 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.

## 9.1 Log in

- a. The upper system communication cable connects to the RS485 port on the battery and then to the USB port on the PC/Laptop
- b. Download and open the upper system software
- c. Modify the language
- d. 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



🔋 家儲锂明	1.池管理系统)	/1.1.635-15			- D X
监控	参数	配置	存储		
单组显示	多组显示	显示记录	并机分组显示 户	机分组数据存储	
名称	数值	単位	名称	数值 単位	103与充放电状态     普通状态       充电加o导通     放电加o导通     充电状态       分电mos导通     放电加os导通     Subtro.00%       有电mos关断     放电加os关断     加电状态       算他:     加电状态     Subtro.00%       加热状态     风扇状态     Subtro.00%       保护状态:     Subtro.00%     Subtro.00%       SN:     SN:
■最大电 关闭焊 波特型	BI CON3	小电压 ( ~ ~	〕 <b>単体匀衡</b> 拨码地址 1 ~ Pack数量 1 ~	123456	(语言/Language)
状态:正在	连接,拨码	addr=1	BMS:		PCB条码:

IFO PARA		STORAG				
inglePack Ma	ltiPacks Re	cord Para	allel group disp	lay Paralle	el packet da	ata storage
0 1 2						Address 0 v CAN type Pylon v Read Set
						Now address: 1 485 type Pylon ~ Read Set
ntervals 4000	÷ P	11 time 10	00 🗧 Read	Count: 13		Real-time data read successfully
Pack Volt 5 Remain_Ca 28		sk Curr	0.00 A SOC 280.00 Ah	Cycles	0 Times	CHG MOS On BISG MOS On Charge Bisch Battery system
Caption	Value	Ilmit				Volt 52.97 V Total_Cap 840 Ah SOC 99 %
Max_Vol	3, 337	10	1			
Min_Vol	3. 337	10			100 %	Curr 0 A Remain_Cap 839 Ah
Wol Diff	0.045	W N			100 /0	
tor_pitt	0.045	4				Max Cell V 3353 nV Max Batt T 18.0 °C Max Amb T 19.0
Vol 01	3, 301	v	[			magnetal, here as anyouter role o magnetal role
Vol 02	3, 334	v	Caption	Value	Unit	Nin Cell V 3291 av Hin Batt T 15.0 'C Hin Amb T 19.0 '
Vol 03	3.298	v	Anb_Temp	19.0	C	Min_Cell_V 3291 nV Min_Batt_T 15.0 'C Min_Amb_T 19.0 '
Vol 04	3, 334	v	MOS_Temp	15.0	C	
Vol 05	3, 335	v				Charge Discharge Volt high alara Volt low alara
Vol 06	3, 300	Y	Max_Temp	16.0	01	
Vol 07	3, 336	v	Min_Temp	15.0	03	Alarn
Vol 08	3, 298	v	Tenp_Diff	1.0	C	
Vol 09	3, 294	v				
Vol 10	3, 337	v	Tenp 01	16.0	C	
	3, 292	v	Tenp 02	16.0	C	
	3, 336	v	Tenp 03	15.0	C	Protect
Vol 11	3.294	V	Tenp 04	16.0	C	
Vol 11 Vol 12		v				
Vol 11 Vol 12 Vol 13						
Vol 11 Vol 12 Vol 13 Vol 14	3.293	77				- Fault
Vol 11 Vol 12 Vol 13 Vol 14 Vol 15	3.293 3.296	V				
Vol 11 Vol 12 Vol 13 Vol 14	3.293	V				

## 9.2 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

INFO PARAI CONFIG STORAGE SinglePack MultiPacks Record Parallel group display Parallel packet data storage	
0       1       2       4       6       7       0       10       11       12       13       14       15         16       17       18       19       20       22       24       26       20 <th>Dischurge</th>	Dischurge

## 9.3 Communication Compatible List

A	Br	15EN	JDGRE三N 深圳市贝系 Shenzhen Base	森科技有限· en Technology C	公司 fo.,Ltd		
BASEN BMS Inverter Communication Protocol Matching Table							
Invert	er Brand	Communication method	Protocol Name	Protocol Remarks	Communication Potter rate	Interface Definition	
维克托-Victron	victron energy	CAN	Victron-CAN-V1.00- 211135	Active Upload	500K	7H、8L	
古瑞瓦特-SPF Growatt-SPF	Growatt	485	Growatt BMS-RS485-protocal-1xSxxP_ESSL_V2.01 Growatt BMS-RS485-protocal-V2.0	MODBUS Standard protocols	9600	1B、2A	
古瑞瓦特-SPF Growatt-SPF	Growatt	CAN	Growatt BMS CAN-Bus-protocol-low-voltage-V1.05	Active Upload	500K	4H、5L	
古瑞瓦特-SPH Growatt- SPF	Growatt	CAN	Growatt BMS communication protocol of growatt low voltage- V1.01	Active Upload	500K	4H、5L	
德业 Deye	Deye ୡ業	CAN	Deye LV-CAN communication protocol	Active Upload	500K	4H、5L	
德业 Deye	Deye 德業	485	485 Modbus Protocol(4)-deye	MODBUS protocols	9600	1B、2A	
尚科-Scolar	5ACOLAR	CAN	Growatt BMS CAN-Bus-protocol-low-voltage-V1.05	Active Upload	500K	4H、5L	
固德威-Goodwe	GOODWE	CAN	Goodwe-CAN-V1.7-220228-SolarinverterFamily-EN	Active Upload	500K	4H、5L	
日月元-Voltronic Power	Voltronic Power	485	Voltronic Power-485-V1.03-200325	MODBUS protocols	9600	3B、5A	
首航-SOFAR	SCIFAR	CAN	SOFAR-CAN-V100-211117-Rev6	Active Upload	500K	1H、 2L	
锦浪-Solis	Solis Inverters	CAN	Solis-CAN-V1.0-191228-lowVoltage	Active Upload	500K	4H、5L	
鹏城-Luxpower		CAN	Luxpowertek Battery CAN Protocol -2021	Active Upload	500K	4H、3L	
派能-Pylontech	PYLONTECH	485	Pylon-485-V3.5-161216-low voltage protocol	1363	115200	18、2A	
派能-Pylontech	PYLONTECH	485	Pylon-485-V3.5-161216-low voltage protocol	1363	9600	1B、2A	
派能-Pylontech	PYLONTECH	CAN	Pylon-CAN-V1.2- 180408 -lowVoltage	Active Upload	500K	4H、5L	
硕日-Srne	💋 SRNE	485	shuori BMS Modbus Protocol for RS485 V1.3(2020-11-24)	MODBUS	9600	7A、8B	
美世乐 Must	MUST美世乐	CAN	PV1800F-CAN communication Protocol1.04.04	Active Upload	100K	6H、5L	
艾思玛 SMA	SMA	CAN	SMA-CAN-V1.0.0-210630-FSS -ConnectingBat-TI-en-20W	Active Upload	500K	4H、5L	
素瑞德-SOROTEC	SOROEEC* Power Solutions Expert	CAN	CAN Protocol 1.0(SOROTEC Protocol)	MODBUS Standard protocols	500K	4H、5L	
素瑞德 SOROTEC	SOROCEC Power Solutions Expert	485	Protocal between Sorotec Inverter and Lithium Battery (RS485)	Active Upload	500K	1B、2A	
SOL-ARK	Sol-Ark	CAN	Sol-Ark CAN Bus Protocol V1.2.pdf4-25-22	Active Upload	500K	4H、5L	
迈格瑞能 MEGAREVO	MEGAREVO	CAN	Shenzhen MEGAREVO Hybrid Inverter-5K BMS Protocol V1 01	Active Upload	500K	4H、5L	
MPP Solar	Augusty Solar should be this easy	485	BMS 485 communication protocol 20200325(2)	MODBUS	9600	1B、2A	
拓宝-TBB		CAN	CAN BUS Protocol of TBB Lithium Battery BMS Platform V 1.1	Active Upload	500К	4H、5L	
盛能杰-Senergy	Seneigy Sefection	CAN	SenergyINV&BMS_ CAN_Protocols	Active Upload		4H、5L	

## 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 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.

## 11. 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 and 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?** 

Just Contact BASEN!



# BASEN®GREEN

## BASENGREEN YOUR RELIABLE POWER

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