





Battery Module 48V/50Ah

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Instructions for use and operation of the battery system

Statement of Law

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Please note that the product can be modified without prior notice.

Revision History

Revision NO.	Revision Date	Revision Reason
1.0	2021.10.28	First Published
2.0	2022.6.10	Website update

Safety Precautions

V WARNING

Please do not put the battery into water or fire, in case of explosion or any other situation that might endanger your life.

Please connect wires properly while installation, do not reverse connect. To avoid short circuit, please don't connect positive and negative poles with conductor (wires for instance). Please do not stab, hit, trample or strike the battery in any other way.

Please shut off the power completely when removing the device or reconnecting wires during the daily use or it could cause the danger of electric shock.

Please use dry powder extinguisher to put out the flame when encountering a fire hazard, liquid extinguisher could result in the risk of secondary disaster.

For your safety, please do not arbitrarily dismantle any component in any circumstances unless a specialist or an authorized one from our company, device breakdown due to improper operation will not be covered under warranty.

We have strict inspection to ensure the quality when products are shipped out, however, please contact us if case bulging or another abnormal phenomenon.

For your safety, device shall be ground connected properly before normal use.

To assure the proper use please make sure parameters among the relevant device are compatible.

Please do not mixed-use batteries from different manufacturers, different types and models, as well as old and new together.

Ambient and storage method could impact the life span and product reliability, please consider the operation environment abundantly to make sure device works in proper condition.

For long-term storage, the battery should be recharged once every 6 months, and the amount of electric charge shall exceed 80% of the rated capacity.

Please charge the battery in 18 hours after it discharges fully and starts over-discharging protection.

Formula of theoretical standby time: T=C/I (T is standby time, C is battery capacity, I is total current of all loads)

Preface

Manual description

The VB4850 lithium iron phosphate battery energy storage system can provide energy storage solutions for photovoltaic power generation users through parallel combination. During the day, the excess power of photovoltaic power generation can be stored in the battery. At night or when needed, the stored electrical energy can be used to supply power to the electrical equipment, which can improve the efficiency of photovoltaic power generation, peak load shifting, and emergency power backup.

This user manual details the basic structure, parameters, basic procedures and methods of installation and operation and maintenance of the equipment.

1 Introduction

Brief Introduction

VB4850 lithium iron phosphate battery system is a standard battery system unit, customers can choose a certain number of VB4850 according to their needs, by connecting parallel to form a larger capacity battery pack, to meet the user's long-term power supply needs.

Product Properties

VB4850 energy storage product's anode materials are lithium iron phosphate, battery cells are managed effectively by BMS with better performance, the system's features as below:

- Comply with European ROHS, Certified SGS, employ non-toxic, non-pollution environment-friendly battery;
- Anode materials are lithium iron phosphate (LiFePO4), safer with longer life span:
- Carries battery management system with better performance, possesses protection function like over-discharge, over-charge, over-current, abnormal temperature;
- Self-management on charging and discharging, Single core balancing function;
- Intelligent design configures integrated inspection module, with 3 remote functions (remote-measuring, remote-communicating and remote-controlling);
- Flexible configurations allow parallel of multi battery for longer supply time;
- Self-ventilation with lower system noise;
- Less battery self-discharge, then recharging period can be up to 6 months during the storage; No memory effect so that battery can be charged and discharged shallowly;
- With wide range of temperature for working environment, -20°C ~ +55 °C, circulation span and discharging performance are well under high temperature;
- Less volume, lighter weight.

Product identity definition

	Battery voltage is higher than safe voltage, direct contact with electric shock hazard
	Be careful with your actions and be aware of the dangers
Ĩ	Read the user manual before using
X	The scrapped battery cannot be put into the garbage can and must be professionally recycled
	After the battery life is terminated, the battery can continue to be used after it recycled by the professional recycling organization and do not discard it at will





This battery product meets European directive requirements

Dangerous goods warning label on the top of the battery module

Nameplate Label

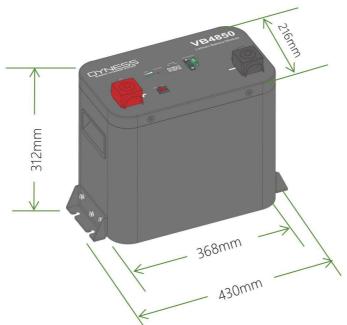
Module:	LFP Lithium Ion Battery
Туре:	VB4850
Capacity/Voltage:	50Ah/48V
Total Storing Energy:	2.4kWh
Charge Voltage:	52.5~54V
Max. Discharge Power: Series Number: Manufacture Date:	2.4kW
CE C www.dyness-tech.com DAQIN NEW ENERGY TE	

Figure 1-1 Nameplate Label of VB4850

2 Product Specification

Size and Weight

Table 2-1 VB4850Spec&Size				
Product	Nominal	Nominal	Dimension Weigh	
FIGUUCI	Voltage	Capacity	Dimension	weight
			368mm*216mm*312	
VB4850	DC48V	50Ah	mm(Not include the	≈28.2kg
V D4030		JUAN	height of the top	~20.2KY
			terminal)	



Performance Parameter

Table 2-2 VB4850 performance parameter

Nominal Voltage	48V
Work Voltage Range	42~54.75V
Nominal Capacity	50Ah
Nominal Energy	2.4kWh
Nominal Power	1.2KW
Max Power	2.4KW
Rated Charging Current	25A
Rated Discharging Current	25A

Interface Definition

VB4850 product panel interface configuration and function.

This section details the interface functions of the front panel of the device.

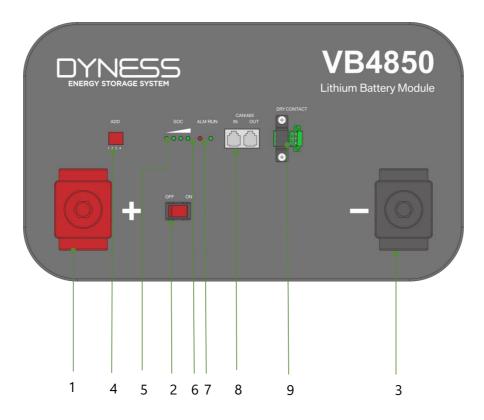


Figure 2-1 VB4850 The sketch of interface

No.	ltem	Definition
1	Positive Terminal	Battery output positive or parallel positive cable
2	Power Switch	OFF/ON, must be in the "ON" state when in use
3	Negative Terminal	Battery output negative or parallel negative cable
4	ADD	DIP switch, definition in2.3.1
5	SOC	The number of green lights on shows the remaining battery power, details in table2-3
6	ALM	Red light flashing when an alarm occurs, red light always on during protection status. After the condition of trigger protection is released, it can be automatically closed; Details in table2-3
7	RUN	Green light flashing during standby and charging mode. Green light always on when discharging: Details in table2-3
8	CAN/485	Communication cascade port, support CAN/ RS485 communication, interface definition in

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No.	Item	Definition	
		2.3.3	
9	DRY CONTACT	Dry contact, for specific definition, see dry contact 2.3.2 function description	
ADD DIP	switch definition and descrip	tion	
		ON DIP	



DIP switch position (master communication protocol and baud rate selection)			
#1 #2 #3 #4			#4
			Baud rate selection
Define different protocols; Distinguish between master and slave		OFF: CAN: 500K,485: 9600	
		ON: CAN: 250K,485: 115200	

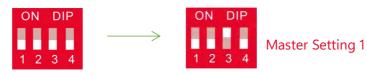
DIP switch description:

When the batteries are connected in parallel, the host communicates with the slaves through the CAN interface. The host summarizes the information of the entire battery system and communicates with the inverter through CAN or 485.

If the master is the latest VB4850 battery with DIP switch:

1. The communication cable from the master CAN IN to the inverter comm port should be the correct one.

2. When the battery works with GOODWE, Solis, LUX, Sofar, DEYE(SUNSYNK), VICTRON, IMEON, Sungrow, SMA, RENAC, DELIOS, SAJ(CAN Comm) ,before starting the battery,you need put the master DIP switch "# 3" to the "ON" position (to the top), then turn on the batteries.



3. If the battery communicates with the Axpert-king/VMIII/MAX, Infinisolar, Growatt SPH/SPA(CAN comm), GMDE, turn the master DIP switch "#2" to "ON" position.



If the master is the latest VB4850 battery with DIP switch:

4. If the battery communicates with the Growatt SPF HVM-P/ES/WPV by RS485 communication, turn the master DIP switch "#2" and "#3" to "ON".



5. If the battery communicates with the Schneider Conext Series, turn the master DIP switch "#1" and "#3" to "ON".



6. When you setup the master DIP as setting 1~4,all the slaves keep the DIP 0000,no need change.

7. If the energy storage system has only one VB4850, it is the master itself, and still follow the above steps.

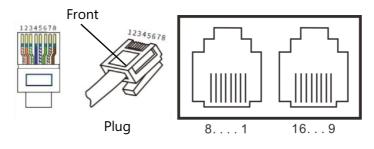
Note: For more information of matching inverter brands, please subject to the latest document

<The list of compatibility between Dyness ESS and Inverters >

DRY CONTACT Description of dry contact function

NC	NC	NC
GND	NC	KS
12V+	NC	BIN

PIN	Definition
GND	BMS output12V- \langle It is only used for the battery supporting lamp
GND	board, not for external use)
12V+	BMS output 12V+ (It is only used for the battery supporting lamp
12 V +	board, not for external use)
	After KS and BIN are connected to the external self-reset switch for
KS	3S, the battery changes from shutdown state to startup state or
	battery changes from startup state to shutdown state
	After BIN and KS are connected to the external self-reset switch for
BIN	3S, the battery changes from shutdown state to startup state or
	battery changes from startup state to shutdown state



Socket of communication port

CAN/485

Figure 2-2 CAN/485 interface definition

PINport	Color	Definition
PIN1	Orange/White	485A
PIN2	Orange	XGND
PIN3	Green/White	485B
PIN4	Blue	CANH
PIN5	Blue/White	CANL
PIN6	Green	Reserve
PIN7	Brown/White	XIN
PIN8	Brown	Reserve
PIN9	Orange/White	Reserve
PIN10	Orange	XGND
PIN11	Green/White	Reserve
PIN12	Blue	CANH
PIN13	Blue/White	CANL
PIN14	Green	Reserve
PIN15	Brown/White	XOUT
PIN16	Brown	Reserve

Table 2-3 Pin Definition

Table 2-4 SOC/ALM/RUN Light instructions

Battery State	SOC	LED1	LED2	LED3	LED4	ALM	RUN
Shut down		off	off	off	off	off	off

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	75%≤SOC≤100 %	on	on	on	on	off	flash
	50%≤SOC<75%	on	on	on	off	off	flash
Standby	25%≤SOC<50%	on	on	off	off	off	flash
	5% <soc<25%< td=""><td>on</td><td>off</td><td>off</td><td>off</td><td>off</td><td>flash</td></soc<25%<>	on	off	off	off	off	flash
	0% <soc≤5%< td=""><td>on</td><td>off</td><td>off</td><td>off</td><td>flash</td><td>flash</td></soc≤5%<>	on	off	off	off	flash	flash
	SOC=0	off	off	off	off	on	flash
	SOC=100%	on	on	on	on	off	on
	75%≤SOC< 100%	on	on	on	flash	off	on
Charging	50%≤SOC<75%	on	on	flash	off	off	on
	25%≤SOC<50%	on	flash	off	off	off	on
	0% <soc<25%< td=""><td>flash</td><td>off</td><td>off</td><td>off</td><td>off</td><td>on</td></soc<25%<>	flash	off	off	off	off	on
	75%≤SOC≤100 %	on	on	on	on	off	flash
	50%≤SOC<75%	on	on	on	off	off	flash
Discharging	25%≤SOC<50%	on	on	off	off	off	flash
	5% <soc<25%< td=""><td>on</td><td>off</td><td>off</td><td>off</td><td>off</td><td>flash</td></soc<25%<>	on	off	off	off	off	flash
	0% <soc≤5%< td=""><td>on</td><td>off</td><td>off</td><td>off</td><td>flash</td><td>flash</td></soc≤5%<>	on	off	off	off	flash	flash
	SOC=0	off	off	off	off	on	flash
_							

On: means green light always on

On: means red light always on

Flash:means green light flashing

Flash: means red light flashing

Flash:on 0.5S , off 0.5S

A special ALM light flashing state: when the communication between batteries is lost or abnormal, all the lights from SOC to RUN of the master battery will flash together.

Battery Management System (BMS)

Voltage Protection

Discharging Low Voltage Protection:

When any battery cell voltage is lower than the protection value during discharging, the over-discharging protection starts, and the battery buzzer makes an alarm sound. Then battery system stops supplying power to the outside. When the voltage of each cell recovers to rated return range, the protection is over.

Charging Over Voltage Protection:

When total voltage or any battery cell voltage reaches the protection value during charging, battery stops charging. When total voltage and all the cell voltage recover to rated return range, the protection is over.

Current Protection

Over Current Protection in Charging:

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When the charge current>45A, current limit protection mode is activated, current will be limited to $4A_{3}$ protection is removed after rated time delaying 10S. Circulate like this until the current is lower than 45A.

Over Current Protection in Discharging:

When the discharging current is more than the protection value 55A, the battery buzzer alarms and the system stops discharging. Protection is removed after rated time delaying 1min.

Temperature Protection

Less/Over temperature protection in charging:

When battery's temperature is beyond range of 0°C~+55°Cduring charging, temperature protection starts, device stops charging. The protection is over when it recovers to rated return range.

Less/Over temperature protection in discharging:

When battery's temperature is beyond range of -20°C~+55°C during discharging,

temperature protection starts, device stops supplying power to the outside.

The protection is over when it recovers to rated return range.

Other Protection

Short Circuit Protection:

The battery does not allow external short circuit, which will damage the BMS.



Battery's maximum discharging current should be more than load's maximum working current.

3 Installation and Configuration

Ready for installation

Safety Requirement

This system can only be installed by personnel who have been trained in the power supply system and have sufficient knowledge of the power system.

The safety regulations and local safety regulations listed below should always be followed during the installation.

- All circuits connected to this power system with an external voltage of less than 48V must meet the SELV requirements defined in the IEC60950 standard.
- If operating within the power system cabinet, make sure the power system is not running. Battery devices should also be switched off.
- Distribution cable wiring should be reasonable and has the protective measures to avoid touching these cables while operating power equipment.
- when installing the battery system, must wear the protective items below:







Isolation gloves

Safety goggles

Safety shoes

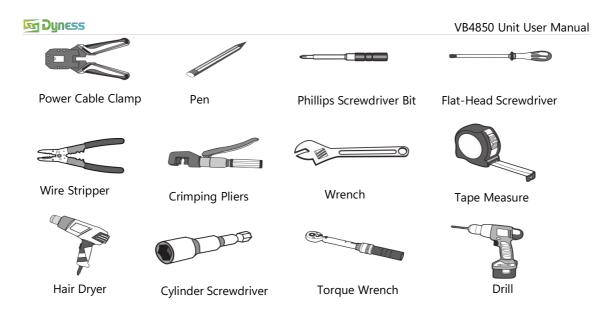
Figure 3-1 Safety Gear

Environmental requirements

- Working temperature: -20°C~+55°C
- Charging temperature range is 0°C~+55°C
- Discharging temperature range is -20°C ~+55°C
- Storage temperature: -10°C~+40°C
- The storage time must be less than 3 months in $35{\sim}40^{\circ}C$
- Relative humidity: 5%~85% RH
- Elevation: no more than 4000m
- Operating environment: Indoor installation, sites avoid the sun and no wind, no conductive dust and corrosive gas.
- And the following conditions are met:Installation location should be away from the sea to avoid brine and high humidity environment;The ground is flat and level;There is no flammable explosive near to the installation places;The optimal ambient temperature is 15~30°C.
- Keep away from dust and messy zones.

Tools and data

Tools and meters that may be used are shown in Figure 3-2:





Technical preparation

Electrical interface check

- Devices that can be connected directly to the battery can be user equipment, power supplies, or other power supplies.Confirm whether the user's PV power generation equipment, power supply or other power supply equipment has a DC output interface, and measure whether the DC power output voltage meets the voltage range requirements in Table 2-2.
- Confirm that the maximum working current of the battery-powered user equipment (inverter DC input) should be less than the maximum discharge current of the products used in Table 2-2.

The security check

 No flammable, explosive and other dangerous articles are placed beside the battery.Firefighting equipment should be provided near the equipment, such as portable dry powder fire extinguisher.If necessary, an automatic fire fighting system should be equipped.

Unpacking inspection

- When the equipment arrives at the installation site, loading and unloading should be carried out according to the rules and regulations, to prevent from being exposed to sun and rain. Before unpacking, the total number of packages shall be indicated according to the shipping list attached to each package, and the case shall be checked for good condition;
- In the process of unpacking, handle with care and protect the surface coating of the object;
- Open the package, the installation personnel should read the technical documents, verify the list, according to the configuration table and packing list, ensure objects are

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complete and intact, if the internal packing is damaged, should be examined and recorded in detail.Packing list is as follows:

ltem	Specification	QTY	Figure
VB4850 module	48V50Ah 368mm*216mm*31 2mm(Not include the height of the top terminal)	1	
Module fixing bracket	L-shaped bracket	2	
User Manual	User manual	1	El Pyron
Bolt	M6×16 External hexagon internal cross three combination bolt	1	
Dry contact plug	PLTB1.5-03-BF-3.81	1	

Engineering coordination

Attention should be paid to the following items before construction:
Power cable specification The power cable specification shall meet the requirements of maximum discharge current for each product;

Mounting space and bearing capacity; Make sure that the battery has enough space to install, and that the battery rack and bracket have enough load capacity.

• Wiring:

Make sure the power line and ground wire are reasonable. Not easy to short-circuit, wading and corrosion.

Equipment installation

Table3-2 Installation steps

Step1 Installation preparation

1. Confirm that the ON/OFF switch on the front panel of VB4850 unit is at the "OFF" state to ensure no live operation.

Step2 Mechanical installation

- 1. Battery placement position determination.
- 2. Confirm the direction of battery module installation.
- 3. Installation of the bottom fixing bracket of the battery.

Step3 Electrical installation

- 1. Remove the battery terminal protective cover.
- 2. Battery module parallel positive cable installation.
- 3. Battery module parallel negative cable installation.
- 4. Installation of total positive and negative cable of battery module.
- 5. Installation of CAN communication cascade cable between modules.
- 6. Module dry contact control cable installation.

Step4 Battery system self-test

- 1. Press the ON/OFF switch to the "ON" state.
- 2. Control the dry contact to activate the BMS system.
- 3. Check the system output voltage.
- 4. Shut down the system.

Step5 Inverter connecting

- 1. Install the total positive and negative cables of the battery system to the MCB.
- 2.Connect the external CAN communication cable to the inverter.

Installation preparation

- 1. Prepare equipment and tools for installation;
- 2. Check the VB4850 unit and confirm that the ON/OFF switch is at the "OFF" state to ensure no live operation.

Mechanical installation

Mechanical installation

1. Firstly fix the L-shaped bracket to the bottom of the battery module, the fixed bolt is the matching bolt M6*14, the tightening torque is controlled at 9-12NM, the schematic diagram is as follows:



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Mechanical installation

2. After installation, as shown in the figure below, the left and right side brackets are fixed in the same way:



3. Fix the L-shaped bracket to the RV body structure or other structure in the installation scene that needs to be fixed.

Electrical installation

Before connecting the power cable and ground wire, it is recommended to use a multimeter to measure the continuity of the cable, whether it is short-circuited, and confirm the positive and negative.

Measuring methods:

- Cable continuity: select the multimeter buzzer file, use a probe to measure both ends of the same color cable, if the buzzer sounds, the cable is available.
- Short circuit judgment: select the multimeter resistance file, use the probe to measure the positive and negative poles of the same end, if the resistance shows infinity, it means the cable is available.
- Positive and negative poles: After the power cable is connected visually, the positive and negative poles of the battery should be connected to the positive and negative poles of the opposite device respectively.

Selection requirements for MCB:

Voltage: U>60V

Current: I =Inverter power/45V

Schematic diagram of the wiring operation of the positive and negative terminals of the module

1. Unscrew the plastic nut on the plastic protective cover on the top of the terminal



2.Remove the plastic protective cover of the terminal.



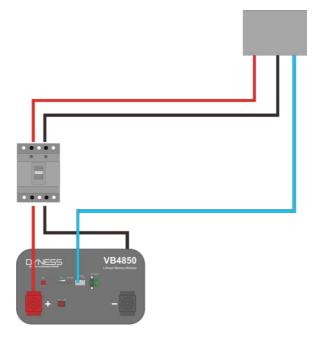
3. Remove the nut and washer on the terminal, and connect it with the parallel cable or the total positive and total negative cable, torque 10-12NM. After the cable connection is done, reinstall the plastic protective cover $_{\circ}$



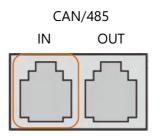
Wiring diagram for single module use

1. After the battery power cable is connected to the MCB, connect the communication cable and the dry contact cable according to the following figure.

The communication cable is plugged into the CAN IN interface on the panel (note that it is not CAN OUT)



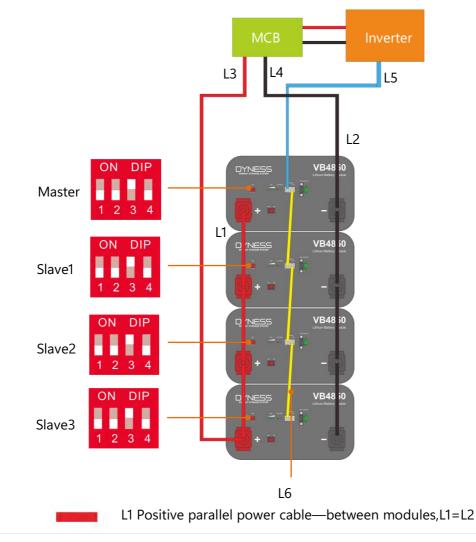
2. From battery CAN IN to the inverter com port.



3. Check the connection of all the cables, after confirming that they are correct. Set the master DIP mode according to the inverter model firstly, press the boat switch to ON. The battery panel LED will be on.



Wiring diagram for parallel use of modules:



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- L2 Negative parallel power cable—between modules,L1=L2
 - L3 Total positive output power cable-to MCB
- L4 Total negative output power cable—to MCB
 - L5 Communication cable between battery and inverter
 - L6 Communication cable between modules

4 Use, maintenance and troubleshooting

Instructions for use and operation of the battery system

After completing the electrical installation, follow the steps below to turn on the battery system:

 Refer to the wiring instructions of "Wiring diagram for single module use" or Wiring diagram for parallel use of modules"", do the preparation work before the battery pack is turned on, and then press the ON/OFF button to the ON state, start the dry contact controller to control the battery to turn on, and the RUN light is on after the self-test. SOC indicator is on (in the picture is 100%SOC state).



After pressing the power button, if you find that the battery status indicator on the front panel is continuously red, please refer to "Alarm Description" to deal with it. If the fault cannot be eliminated, please contact the dealer in time.

After pressing the power button, if you find that the battery status indicator on the front panel is continuously red, please refer to "4.2 Alarm Description" to deal with it. If the fault cannot be eliminated, please contact the dealer in time.

- 2. Use a multimeter to measure whether the voltages on the DC breaker connected to battery are more than 42V, and check whether the voltage polarity is consistent with the inverter input polarity; if the DC breaker side connected to battery has output voltage and is more than 42V, the battery has started working normally;
- 3. After confirming that the battery output voltage and polarity are correct, turn on the inverter; Turn on the DC breaker.
- 4. Check whether the indicator lights (communication indicator light and battery connection status indicator light) on the inverter are normal; if they are normal, the connection between the battery and the inverter is completed. If the indicator is abnormal, please refer to the inverter manual to find the reason or contact the dealer. Table 4-1 Battery and inverter power matching table

	,	1	5	
Hybrid inverter	Off-grid	VB4850		
nybrid inverter	inverter	V D4050		
EPS(backup	ACoutput	Min.parallel	System energy(kWh)	

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side)ACoutput	power	amount		
power				
≤1.2kW		1	2.4	
≤2.4 kW		2	4.8	
≤3.6 kW		3	7.2	
≤4.8 kW		4	9.6	
≤6.0 kW		5	12.0	
≤7.2 kW		6	14.4	
≤8.4 kW		7	16.8	
≤9.6 kW		8	19.2	
≤14.4 kW		12	28.8	

Equipment	Charge	The battery's long-term continuous charging current should be≤0.5C If the battery capacity is empty,please charge it within 48 hours after the battery is empty.
requirements	Discharge	The long-term continuous discharge current of the battery should be≤0.5C It is recommended Max.depth of discharge(DOD)of battery doesn't more than 90%.

Alarm description and processing

When the protection action or fault occurs in the system, the alarm signal will be given through the working status indicator on the front panel of the VB4850. You can query the specific alarm categories through battery monitor.

If the fault such as charging over-current, under-voltage protection, high-temp protection and other abnormalities which affects the output, please deal with it according to Table 4-2 Table 4-2 Main alarm and Protection

State	Alarm category	Alarm indication	Processing
Charging state	Over-current	ALM light on Buzzer beeping	Stop charging and find out the cause of the trouble
State	High temp	ALM light on	Stop charging
	over-current	ALM light on Buzzer beeping	Stop discharging and find out the cause of the trouble
Dischargin	High temp	ALM light on	Stop discharging
•	SOC 0%-5%	ALM light flash	Charging
g state	Total voltage undervoltage	ALM light on Buzzer beeping	Charging
	Cell voltage undervoltage	ALM light on Buzzer beeping	Charging

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Standby state	Short circuit protection	ALM light on	Check the circuit connected to the output of the battery, and check the power ratio between the battery and the inverter (some inverters have a large inrush current at the moment of startup, and there is a probability of triggering BMS short- circuit protection)
	SOC 0%-5%	ALM light flash	Charging
	Undervoltage seriously	ALM light on Buzzer beeping	Use battery monitor to check whether the cell voltage is lower than 2V ,and if it is lower than 2V. The battery pack is prohibited from recharging.

Analysis and treatment of common faults

Analysis and treatment of common faults in the Table 4-3:

No	Fault	Analysis	Solution
	The indicator does not respond after the power on	Power switch is broken	Power switch
I		No dry contact start signal	Dry contact status
2	Red light on,and no DC output	Abnormal battery data status	Use battery monitor to read battery information
3	The DC power supply time is too short	Battery capacity become less	Storage battery replacement or add more modules
4	Battery can't be fully charged	Low charge voltage	Set the charge voltage to53.5V
5	The power cable side sparks at the moment of power on, and the red light is on	Power connection short-circuit	Turn off the battery, check the cause of the short circuit

If you have any technical help or question, please contact the seller in time.



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Official Website

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