

PowerCool-LFP-LV series Operation Manual



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This document is intended only for the SolarEast PowerCool-LFP-LV battery system, excluding the hybrid inverter or any other equipment. Please keep the Manual properly and operate in strict accordance with all safety and operating instructions in this Manual. Please do not operate the product before reading through the Manual.

All brands and product names are trademarks or registered trademarks of their respective holders.

This Manual introduces PowerCool-LFP-LV manufactured by SolarEast. Please read this manual before you install the product and follow the instructions carefully during the installation process. Should you have any confusion, please contact SolarEast for advice and clarification.

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1. Introduction

1.1Content and Structure of this Document

This document is valid for PowerCool-LFP-LV battery system.

This document describes the product information, and guidance for installation, as well as APP configuration and commissioning.

Observe all documentation that accompanies the product, keep them in a convenient place and available at all times.

Illustrations in this document are reduced to the essential information and may deviate from the real product.

1.2 Target Group

Only qualified persons are allowed to perform the operations marked with a warning symbol in this document.Qualified persons must have:

- Knowledge of working principle of Li-ion battery. .
- Knowledge of how to deal with the dangers and risks associated with installing and using • electrical devices, batteries and systems.
- Knowledge of the installation and commissioning of electrical devices and systems. •
- . Knowledge of the applicable standards and directives.
- Understood and complied with this document, including all safety precautions. .
- . Understood and complied with the documents of the inverter manufacturer, all safety precautions included.

1.3 Levels of Warning Messages



DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE indicates a situation which, if not avoided, can result in property damage.

Warning electric shock.

<u> W</u>arning Fire.

Do not reverse connect the positive and negative.

😡 Do not place near open flame.

On not place at the children or pet touchable area.

1.4 Definition of Abbreviations and Nouns

Abbreviation	Noun		
AC	alternating current		
APP	application		
BAT	battery		
BMS	battery management system		
DC	direct current		
INV	inverter		
PV	photovoltaic		
SOC	state of charge		
SOH	state of health		

2 . Safety

2.1Safety Instruction

This product is designed and tested in accordance with international safety requirements IEC 62619, IEC 63056, and IEC 62040, but as with all electrical and electronic equipment, certain precautions must be observed when installing and operating the product. To reduce the risk of personal injury and ensure the safe installation and operation of the product, more attention should be paid on following all instructions, cautions and warnings in this Manual.

2.2 Battery precautions

WARNING

It is important and necessary to read the user manual carefully before installing or using battery. Failure to do so or to follow any of the instructions or warnings in this document can result in electrical shock, serious injury, or death, or can damage battery, potentially rendering it inoperable.

- If the battery is stored for long time, it is required to charge it every six months, and the recommended SOC should be 50%~55%. The battery shall not be stored for more than 12 months if the storage temperature is -10 ~ 25°C, not more than 6 months if the storage temperature is, 25 ~ 35°C and not more than 3 months if the storage temperature is 35 ~ 50°C
- · Battery needs to be recharged within 12 hours after being fully discharged.
- Do not have the product installed in any environment that falls outside the range of temperature or humidity set out in the Manual.
- Do not expose cable outside.
- Do not connect power terminal reversely.
- All the power terminals must be disconnected for maintenance.
- Please contact the supplier within 24 hours in case of anything abnormal.
- Do not use cleaning solvents to clean battery.
- Do not expose battery to flammable or harsh chemicals or vapors.
- Do not paint any part of battery, include any internal or external components.
- Do not connect battery with PV solar wiring directly.
- Any foreign object is prohibited to insert into any part of battery.
- The warranty claims are excluded for direct or indirect damage due to above reasons.

2.3 Emergency situation



This product is designed with multiple safety strategies to prevent hazards resulting from failure. However, hazards and dangers could emerge in few uncertain situations.

2.3.1 Fire

The battery pack may catch fire when heated over 150°C.

Ensure an ABC or carbon dioxide extinguisher nearby the battery, and do not use water to extinguish the fire.

If a fire breaks out where the battery is installed, perform the following actions:

- Extinguish the fire before the battery catches fire.
- If the battery has caught fire, do not try to extinguish the fire. The fired battery will produce poisonous gases, please evacuate people immediately.

2.3.2 Leaking

If the battery pack leaks, avoid contact with the leaking liquid or gas.

Electrolyte is corrosive and contact may cause skin irritation and chemical burns. If one is exposed to the leaked substance, perform the following actions:

Inhalation: Evacuate the contaminated area and seek medical attention immediately.

Eyes contact: Rinse eyes with flowing water for 15 minutes and seek medical attention immediately.

Skin contact: Wash the affected area thoroughly with soap and water and seek medical attention immediately.

Ingestion: Induce vomiting as soon as possible and seek medical attention immediately.

2.3.3 Wet battery

If the battery is wet or submerged in water, do not try to access it. Contact customer service for technical assistance.

2.3.4 Damaged battery

Damaged battery may emit toxic gas or/and flammable gas, which could cause hazards to lives or property. If the battery is damaged, please keep away from the battery and contact customer service for help as soon as possible.

3. System Introduction

3.1 Specifications

3.1.1 Parameters of system

Battery Cell Technology		Li-iron (LFP)						
Number of Pack (pcs)	1	2	3	4	5	6	7	
Total energy (kWh)		5.22	10.44	15.66	20.88	26.11	31.33	36.55
Usable Energy*(kWh)		4.9	9.8	14.7	19.6	24.5	29.4	34.3
Voltage Range(Vd.c)					44.8 ~ 58.4			
Nominal Voltage(V)					51.2			
Max. Charge Voltage(V)				58.4 (BMS th	ird-level prote	ection value)		
Protective Classe					I.			
DC Overvoltage Category					OCV II			
Max. continuous charging c	urrent(A)	50	100	150	160	160	160	160
Max. continuous discharge	current(A)	50	100	150	160	160	160	160
DOD(%)		95						
Communication		CAN/RS485						
Dimension(L*W*H),mm)		(720±2) * (420±2) * (466±2)	(720±2) * (420±2) * (616±5)	(720±2) * (420±2) * (766±5)	(720±2) * (420±2) * (916±5)	(720±2) * (420±2) * (1066±5)	(720±2) * (420±2) * (1216±5)	(720±2) * (420±2) * (1366±5)
Net Weight(kg)		(69.2±2)	(116.7±5)	(164.2±5)	(211.7±7)	(259.2±9)	(306.7±11)	(354.2±13)
Operating Condition	Indoor or outdoor							
Operating Char	ging	0~57 ℃						
Temperature Disch	arging	-3~57 ℃						
Humidity		<60%RH (No Condensation)						
Cooling type		Natural						
WIFI Frequency Range		2412MHz~2472MHz						
WIFI Maximum Transmission Powe		20dBm						
IP rating of enclosure		IP55						
Installation method		Stacked installation						
4 Supply connection				Fiz	ked power cor	d		

Warranty	10 years (5 free warranty + 5 paid warranty)
Authentication Level	IEC62619:2022, including IEC60730-1,EN IEC 61000-6-1:2019,EN IEC 61000-6-3:2021,EN IEC 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021,EN 301 489-1 V2.2.3,Draft EN 301 489-17 V3.2.5,EN 300 328 V2.2.2,EN 50663:2017,IEC62040 EN 62311:2008,IEC60529,IEC60068-2-52:2017,UN38.3/MSDS

* Testing conditions based on temperature 25°C at the beginning of life. Total Energy/Usable Energy are measured with a standard test method: 0.2C Charge and Discharge. As per the characteristics of lithium batteries, such parameters as the charge/ discharge current and efficiency listed above are subject to change. The final right of interpretation is reserved by Jiangsu SolarEast Energy Storage Technology Co., Ltd.

3.1.2 Pack



Battery Module Type		PowerCool-LFP-HV		
Total energy		5.22 kWh		
Usable Energy*		4.9 kWh		
Voltage Range		44.8~58.4 Vd.c		
Nominal Voltage		51.2 V		
Max. Charge Voltage		58.4 V (BMS third-level protection value)		
Max.continuous charging	g current	50 A		
Max.continuous discharg	je current	50 A		
DOD		95%		
Dimension(L*W*H)		(720±2)*(420±2)*(150±2)mm (Height of single pack)		
Net Weight		(47±2)kg		
Operating Condition		Indoor or outdoor		
	Charging	0~57 ℃		
Operating Temperature	Discharging	-3~57 ℃		
Humidity		<60%RH (No Condensation)		
Configuration		(8S)2S		
Warranty		10 years (5 free warranty + 5 paid warranty)		

3.1.3 Battery Control Box



1) Battery Control Box Display Panel

Object	Name	Description
1	System SOC	
2	No. of Packs	
3	System Voltage	
4	System Current	
5	Monitor Button	Click to activate/deactivate the monitor screen When the breaker is connected, press this button and hold for at least 10s to enter the force charging mode. At this time, the system main circuit is connected by force. Force charging mode can only be exited by disconnecting the breaker
6	WIFI Reset	If WiFi is to be reconnected, press the button and hold for 5s till the WiFi icon on the screen flashes, and then proceed with WiFi connection on App by following the procedures set out in Section 5.3 below.
7	Warning	This icon pops out on the screen in case of system fault. Review and check the cause(s) of the fault on APP
8	WIFI	



Force charging mode: suitable to batteries that re under charge and unable to start up. Under his mode, the main circuit will be connected by orce to charge up the battery. Please do not ctivate force charging when the battery SOC is vithin normal range, or it may cause overcharge, bnormal battery temperature and other ontingencies to the detriment of battery safety.

2) Battery Control Box Interface Panel

All ports are shown in the figure, and detailed information is shown in the table below



Object	Name			
А	ON/OFF	Battery system switch with indicators. Short press ON/OFF button for 1s to start up the battery system and long press it for 3s to shut down the battery system		
В	GND	Grounding protection		
С	DC	Power supply for the main controller, for commissioning by specialized personnel only		
D	Inverter	Communication port to inverter		
E	M/S	Communication ports to parallel batteries		
F	WIFI Antenna			
G	BAT+	Battery anode		
Н	BAT-	Battery cathode		

1: In case of fault, e.g., overcharge, over-discharge, overcurrent, and over-temperature, the red light will keep on 2: When battery system is under normal running, the green light will keep on

3.2 Application scenario



3.3 Features

- The battery is non-toxic, pollution-free and environmental-friendly.
- Anode material is made from LiFePO4 with safety performance and long cycle life.
- Support upgrade BMS software via APP.
- BMS has protection functions including over-discharge, over-charge, over-current and high/low temperature.
- Flexible configuration, multiple battery modules can be connected in parallel to increase storage energy.
- The product is stackable up to 7 packs and supports capacity expansion via the Energy Port by connecting up to 3 stacks in parallel for a maximum capacity of 109.62kWh.

4 . Installation

4.1 Tools and safety gear

The displayed tools are recommended and could be used in the installation of battery or batteries. And the safety gear should be worn correctly during installation.



4.2 Package items

Battery Control Box		
Item	Description	Set
1	Battery Control Box	1
2	Pedestal	1
3	2.5m power cable (1AWG) to inverter BAT+ port	1
4	2.5m power cable (1AWG) to inverter BAT- port	1
5	2.5m ground wire (4AWG)	1
6	M6*12 Pack connection screws	4
7	2.5m communication cable to inverter communication port	1
8	Operation Manual and Warranty Card	1
PACK		
1	PACK	1
2	M6*12 Pack connection screws	4

4.3 Installation location

Make sure that the installation location meets the following conditions:

- The floor is flat and level;
- There are no flammable or explosive materials nearby;
- The ambient temperature is within the range from 0°C to 50°C;
- The temperature and humidity (<60%RH) are maintained at a constant level;
- There is minimal dust and dirt in the area.;
- The distance from heat source is more than 2 meters;
- The distance from air outlet of inverter is more than 0.5 meters;
- The installation areas shall avoid of direct sunlight;
- There are no mandatory ventilation requirements for battery module, but please avoid of installation in confined area. The aeration shall avoid of high salinity, humidity or temperature.
- According to the on-site situation, the equipment should be fixed to the wall during installation against the wall.
- The battery system should be used in PD2 environment.
- Please install the battery system on a foundation about 30cm above the ground. Make sure a distance of 20~30cm will be kept between the battery and the wall. The foundation shall bear a load of 400kg.



CAUTION

If the ambient temperature is out of the operating range, the battery stops operating to protect itself. The optimal temperature for the battery pack ranges from 10°C to 40°C. Frequent exposures to harsh temperatures may deteriorate the performance and life of the battery.

4.4 Module Installation

1)Place the pedestal in the right place (the details about installation position described in chapter 4.3)





2) Place battery pack in the right place of the pedestal. CAUTION: align the battery pack and pedestal before putting it on, make sure the couplings are on the same line to avoid any structural damage.



CAUTION

Before placing battery pack or Battery Control Box on the pedestal, please align it with the pedestal and make sure the couplings are on the same line to avoid any structural damage or render installation impossible. Since each pack is as heavy as 47kg, if mechanical tools are not available, it is recommended to have at least 2 workers working on battery installation.

4)Tighten M6*12 screws into the threaded holes on both sides of Battery Control Box and each pack. Threaded holes on one side are coated with conductive paint to ensure the equipotential bonding of the whole battery case after being tightened with screws.



4.5 Cables Connection

1)Connect the ground cable to the grounding point of the Battery Control Box. Ground cable is 5 AWG. The cable shall be copper with yellow-green color.



2) Connect the communication cable by leading it from the inverter port of Battery Control Box to the inverter BMS port.





3) Connect BAT+ and BAT- power cables by leading them from Battery Control Box to corresponding ports of inverter.



Battery connecting to the inverter (BAT+, BAT-)



NOTICE

The PowerCool-LFP-LV battery system is designed to support both CAN and RS485 communication with the inverter.

CAUTION

I.For Australian market, an overcurrent and disconnection device that isolates all live conductors (positive and negative) is required between the battery system and the inverter.

II.In Australia installations should be conducted in accordance with AS/NZS 3000 and AS/NZS 5139.

4.6 Power on

Check all the power cables and communication cables between Battery Control Box and inverter. Check and make sure grounding is connected.

2) Turn on the Breaker on the Battery Control Box.

3) Switch ON the disconnection device between Battery Control Box and inverter if available.4) Short press for 2 sec the ON/OFF button, and then the ON/OFF button's LED light (green) will be on.

4.7 Power off

Press the ON/OFF button on the Battery Control Box and hold for 3 sec., and the ON/OFF button's LED light will be gradually off. Then disconnect the breaker.

5 . APP configuration and commissioning

5.1 Download our APP:

APP for iOS: Open up the APP Store, type in 'SolarEast PowerCool' in the Search tab to search and download.

APP for Android: Open up the Google Play, type in 'SolarEast PowerCool' in the Search tab to search and download.

You can also download our APP on our official website:https://www.solareastess.com.

5.2 Register and login

5.2.1.The main functions of this pages include language switching, password retrieval, registration, login, viewing service agreement and privacy agreement.



5.2.2.Click 'Register' and go to this page to select identity



5.2.3. Go to this page after selecting identity, insert the email address to be signed in and click 'Next step'.

5.2.4.Click 'get a verification code' and retrieve it from the mailbox. Insert the verification code received on this page, set the password, check 'I agree' and click 'Enter'. Newly registered distributor account has to be approved by the Administrator before taking effect.

<	
Crea	te an account
Account	
hjalzbpinprobijkeselica	com
Verification code	
Please enter verificat	lien ood Get a verificatio
Password	
Please whet plantword	(B-20 Ministructure)
C Ligneduser Registre	dico Agreementan/Privacy Agreem
	Enter
Aiready ha	Enter ve an account®Go to login

5.2.5.Click 'Service Agreement' or 'Privacy Agreement', you may view the details of such agreement.

1804 Salesa	1804 ¹ 299 Redui
< Service Agreement	< Privacy policies
(II analda bha landlah annalat an éa Mar an tha	
The provide the Prignar that shar on that the sections year ve	
providec:	Update Date: July 31, 2023
ColorEast User Se vice Agreements	Effective Date: July 31, 2023
1. Preamaic	This policy applies to the products or services of Diangs
1.1 This agreement is between the user (hereinalter	u SolarEast Energy Storage Technology Co., Ltd" (hereina
informitio as "You") and Jiangau SolarFast Energy	for orferend to as this application).
Storage Technology Co., Ltd (hereinafter referred to as	
"SolerEast"), and SolarEast will strictly provide products	This privacy policy section will be piyou understand the r
or services in accordance with the terms of this	ollowing:
agreement. The terms of this agreement constitute a	
prompulate for your use of the products and services	L Definitions and Scoor of Application
provided by SolarEast and its derivative services. You	It flow We Collect and Use Your Information
should carefully read and fully understand this	III. How We Use Cookies and Similar Technologies
agreement before using the products or services	M. How We Share, Transfer, and Fublicly Disclose Users
provided by SolarEast. Your use of SolarEast's products	Personal Information
or services (including downloading, installing, launching	V. How We Protect the Security of Your Information
browsing, registering, logging in, using, etc.; indicates	V. How You Manage Personal Information
that you agree to all the terms of this agreement. If you	V I. How We Hendle Minors' Information
do not agree to any term of this agreement, you should	VII. How Your information is Transferred Glabally
not use or immediately stop using the products or	IX. How This Privacy Policy Is Updated
services provided by SelarFast. Any operational prompts	8. 8 How to Contact Us
RAQs, user guides, or other rules, processes, etc.,	
displayed by Sola East on its platform constitute a part	Jiangsu SolarEast Energy Storage Technology Co., Ltd (h
of the relevant rules for using Go art-ast's arounds or	eremafter referred to as "we") understands the importance
services and have equal legal effect with this agreement	e of personal information to you. We will provide sufficien
III O K	III 0 <

5.2.6.Click to switch language



5.2.7.Click 'Forget the password' and go to this page, you may insert the account number, obtain a verification code via email, input the verification code and click 'Next step'.

5.2.8.On this page, you can reset password by inserting the new password twice, and then click and go to the front page.

<			
Res	et passw	vord	
Account			
javalluhao@126.com			
Password			
Password			
Enter raise passowers			
Got	o the front p	age	5
			1
110	0	<	

5.3Viewing installed units and adding new units

5.3.1.The picture demonstrates a distributor's account. It shows such figures as the number of devices installed, total installed capacity, newly increased clients this month and total number of





5.3.2.Click 'Installations' on the front page, you can view the systems you created. You may search by system name, email or address.

5.3.3.On the 'system list' page, you may add new systems by clicking '+' button. Then fill in information as instructed and save.

------20:28 < To perfect system information System information Please enter System name System photo Please select a system type System type Location Territory Please select address Longitude and latitude latitude (N relect ingitude (E) select Detailed address 0 111 0 6

5.3.4.Click any item on the system list, you will go to the 'System information' page, where you may view and edit system information.



5.3.5.Click 'Battery device' on the 'System information' page and go to 'Battery list', where you may add device and view battery information.



5.3.6.Click '+' on the 'Battery list' page and then you may add a new device by scanning its tag code.



5.3.7.Find our label code on the side of the device and scan it.



5.3.8.Scan tag code and go to 'Add device' page, and then click 'Wireless connection' for WIFI configuration.And can click on "How to Add a Device" to view the step-by-step instructions for adding a device.

18:10		8-1-1 ×0	18172 O (2 a 4 - 1) a
<	Add device		< Add device
	0		0
	Window contraction		
	Commit you phone with I	MAR	Connect and glower with 1995
	How to add device	0	How to add device?
		- 1	
		- 1	
		- 1	
			Select the WIEI name prefix for the networks devices.
		- 1	SOLAREAST
			Altilia
			Cancel
		(a)	

5.3.9.Select "I have read the tutorial" and go to next steps



5.3.10.Pop-up window shows that phone WiFi is not turned on. Click "Yes".



5.3.12.Click to connect the device and wait for successful connection. After successful connection, it will go to the WiFi login page.



5.3.13.Insert account and password, click "Connect" for automatic configuration and binding.



5.3.11.Turn on WLAN on the pop-up window and click "Done" right away.



5.4Viewing details of installed devices

5.4.1.Click any item on the battery list you will go to the device details page, where you can view such data as battery SOC, battery temperature, voltage, power, current, operating information, cell monitoring, alarm data and statistics.



5.4.2.You may check the operating information of the device and view the upgrade protocol.



5.4.3.View' alarm data '



5.4.4.View cell running data



5.4.5.Power usage tracking function. You may view the statistic data of charging/discharging capacity in the time span of Day/Month/Year.



5.4.6.View alarm list and alarm description.



5.5'My' page features

5.5.1. 'My' page features the following functions: checking personal information, viewing messages, viewing installers, viewing clients, switching language, switching temperature unit, submitting feedback and setting the system. 'My service' mainly include viewing FAQ, operation manual, APP version information and supplier's information.



5.5.2.You are allowed to change avatar, name and contact on 'Account settings' page.



5.5.3.On 'Installer management' page, you may view installers under your name. Click each installer to view the details.

2.44		1 ··· 7 a ·· 5 8	10:36		8-12.0-548
	Installer manageme	nt	<	Installer deta	ils
Q. Pro	r war nickname and email			Louise	
•	Louise wintez@exellos.com				
					_

5.5.4.You may view client details by clicking 'Client management'. By clicking the system list, you may view the system information.

0912 B •	Client manager	e = 7 22752	< Clien	
 1 her 1 1<th>une sicharen ein eine person-lest solareurffestig 162 oor sam genigjonsyndjameter</th><th>· · · · · ·</th><th>ean Unagorigan Bernantia (2) System fiel</th><th>gentermentet den tern 2 - ott-for- 275 Status Reeling</th>	une sicharen ein eine person-lest solareurffestig 162 oor sam genigjonsyndjameter	· · · · · ·	ean Unagorigan Bernantia (2) System fiel	gentermentet den tern 2 - ott-for- 275 Status Reeling

5.5.5.Language and temperature unit switching



5.5.6.On this page you may report problems encountered and view historical feedback.



5.5.7.On 'FAQ' page you may view the list of common alarm problems. Click any item to view details.



5.5.8.View APP version details.



5.5.9. About us' pages shows company profile and contact information of the supplier.



5.5.10.On this page, you may change password or email address. You may also view list of shared information, log off, view service agreement and privacy agreement, clear cache and cookies, and log out.

<	Settings	
Account any	d security	
List of share	ed information	
Account car	ncellation	
Service Agn	eement	
Privacy poli	cies	
inverter sele	ection	
Clear cache	and cookies	2-04488
	Logout	

5.5.11. On 'Account and security' page, you may change password and email address.

।ब्यंध क्ष ञ्च क े Account and secu	ið ⇔3 al2158 ity	1042 884	Change email	A-1.42154	10.42 8	Res	et password	A-342154
Change password	>	13907855	58@qq.com		139078	15558@qq	com	
Ghançe emai	>	Please entre	cleanut become	_	Property	rdør, curnelå	provered	
			Next step				Artification	
	<	18	0	2		0	0	<

5.5.12.On account cancellation page, you are allowed to cancel your account.

14:47 🔜 🖗	1244-24
< Account	cancellation
Account cancellation Log off permanently and u proceed with caution	able to recover, please
Please select the reaso	m
I have multiple accounts	
I don't want to use it any	nore
Others	
Please specify the reas	on
	Yes

5.6 Inverter selection

5.6.1.Click "My", enter "Settings" page, click "Inverter selection", and then turn on camera to scan the bar code on the Control Box and enter the configuration page

		4 8 - 7 4 1910
<	Setting	ps .
Account an	nd security	
List of sha	red information	
Account ca	ncellation	
Service Ag	reement	
Privacy pol	Icies	
invertar sei	ection	
Clear cach	e and cookles	112-1048
	Logou	

5.6.2. Click "connect your phone with WiFi", confirm on the pop-up window that you've read the tutorial and then enter the WiFi configuration page, the following procedures are identical to Items 5.3.8~5.3.12.



5.6.3. Select the right model and click "Start configuring" for configuration. After a successful configuration, disconnect the device WiFi.



6.Maintenance

6.1 Capacity calibration

It is better to fully charge-discharge the battery for the capacity calibration at least once every six months (if available). Please conduct the calibration maintenance according to the following steps:

- 1. Make sure there is a relatively stable power supply source to charge the battery at a maximum charge current of 50A (Single PACK), e.g. grid.
- Make sure the battery discharges through PCS at a maximum discharge current of 50 A (Single PACK).
- 3. Set the inverter, and ensure that the DOD is 100% (if available), the maximum charge current is less than 50 A (20.4 A is better), while the maximum discharge current is 50 A (Single PACK) .
- 4. Adjust the inverter working mode and discharge the battery till power off, and keep it for at least 30min;
- Adjust the inverter working mode and charge the battery to 100%, and keep it for at least 30min;
- 6. Adjust the inverter working mode and discharge the battery till power off, and the capacity calibration is finished;
- 7. Charge the battery to 30%~80%SOC, and then set the inverter as before the capacity calibration.

6.2 Annual inspection

Every year after installation. The connection of power connectors, grounding points, power cables and screws are to be checked. Make sure there is no loosening, fracture or corrosion at any connection point. Check the installation environment such as dust, water, insect etc. and make sure it is suitable for IP55 battery system.