USER MANUAL

Floor Standing Battery

DBH06-XFM15.36K-EU

Document version: 0 1

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1. Introduction

1.1 Statement

Thanks a lot for choosing wall mounted DBH06-XFM15.36K-EU series energy storage system . This manual will provide detailed product information and installation instructions for users who use this wall mounted DBH06-XFM15.36K-EU series energy storage system. Please read all instructions and precautions in the manual carefully before installation and use. If you have any suggestions during use, please feel free to give us feedback. We will not notify users of any modification to this manual.

The drawings provided in this manual are used to explain product-related concepts, including product information, installation guidelines, electrical connections, system commissioning, safety information, common problems and maintenance, etc.

1.2 Implications of Abbreviations

AC	Alternating Current
DC	Direct Current
PV	Photovoltaic
BMS	Battery Management System
PCS	Power Conversion System
RJ45	RJ45 Modular Plug
SOC	State of Charge
C	Current-Rate
RS485	Recommended Standard 485
CAN	Controller Area Network

2. Safety Instructions

2.1 Important Reminder

Before installing, operating and maintaining the equipment, please read this

manual first, and follow the symbols on the equipment and all safety precautions in this manual. For safety, it is the installer's responsibility to familiarize himself with this manual and all warnings prior to installation.

Items marked with "danger" and "attention" in this manual do not represent all safety items to be observed, but are only supplements to all safety precautions. We are not responsible for any violation of general safety operation requirements, or Any operation that violates equipment design, production and use safety standards. The device must be used in an environment that meets the requirements of the design specification. Otherwise, the equipment may malfunction, and the resulting abnormal equipment function or component damage, personal safety accidents and property losses are not within the scope of equipment quality assurance. Local laws, regulations and norms should be followed while installing, operating and maintaining equipment. The safety precautions in this manual are only a supplement to local laws, regulations and norms. In any of the following circumstances, we shall not be liable:

1) The equipment is not performed under the operating conditions described in this manual;
2) The installation and operation environment exceeds the requirements of the relevant international or national standards;
3) Disassemble, modify or modify the software code of the products without authorization;
4) Failure to comply with the operating instructions and safety warnings related to the product and documents;
5) Equipment damage caused by abnormal natural environment (earthquake, fire, storm and other force majeure);
6) The transportation damage caused by the customer during the transportation;
7) The storage conditions do not meet the requirements of relevant product documents and cause damage;
8) Failure to observe the safety precautions and rules in this operating instruction and document.

2.2 Requirements for Specification

1) Live operation is forbidden during the installation;
2) It is strictly forbidden to install, use and operate any outdoor equipment and cables in harsh environments(including but not limited to transportation

equipment, operating equipment and cables, plugging and removing signal ports connected to the outdoor, working at heights, outdoor installation). Thunder, rain, snow, strong wind and other six-level weather;

3) In any case, without the permission of the manufacturer, the structure and installation sequence of the equipment shall not be changed;
4) The battery terminal assembly shall not be affected during transportation;
5) It is strictly forbidden to alter, damage or cover the signs and nameplates on the equipment;
6) Fully understand the composition and working principle of the entire photovoltaic power generation system, as well as the relevant standards of the country/region where the project is located;
7) After the equipment is installed, the empty packaging materials in the equipment area should be removed, such as cartons, foam, plastic, cable ties, etc.

2.3 Personnel Safety

1) Wear appropriate personal protective equipment when operating equipment. If a failure that may cause personal injury or equipment damage is found, the operation should be stopped immediately;
2) Before using any tools, please understand the correct use of tools to avoid injury and equipment damage;
3) When the equipment is running, the shell temperature is high, which may cause burns. Therefore, do not touch the case;
4) In order to ensure personal safety and normal use, reliable grounding should be conducted before use;
5) Do not open or damage the battery, the released electrolyte is harmful to the skin and eyes, so avoid touching it;
6) Do not place unrelated items on the top of the equipment or insert them into any part of the equipment;
7) Do not place flammable items around the equipment;
8) Do not put the battery into fire, so as not to explode and prevent personal safety from being endangered;
9) Do not place the battery module in water or other liquids;
10) Do not short-circuit the battery terminal, otherwise the battery short-circuit may

cause an explosion;

11) The battery may cause the danger of electric shock and large short-circuit currents. Some matters should be noted when using the battery:
    a) Watches, rings and other metal items should be removed;
    b) Tools with insulated handles shall be used;
    c) Rubber gloves and shoes shall be worn;
    d) Disconnect the charging power supply before connecting or disconnecting the battery terminal;
    e) Check the battery for accidental grounding, and if so, unplug the power supply from the ground wire.
12) Do not clean the internal and external electrical components of the cabinet with water or detergent;
13) Do not stand, lean, or sit on the equipment;
14) Do not damage any modules of the equipment.

2.4 Personnel Requirements

1) The personnel responsible for installation and maintenance must undergo strict training, understand all safety precautions and master the correct operation methods;
2) Only qualified professionals or trained personnel are allowed to install, operate, and maintain the equipment;
3) Personnel operating the equipment, including operators, trained personnel and professionals, must have special operation qualifications required by the local country, such as high-pressure operation, high-altitude operation, special equipment operation qualifications and, etc;
4) Replacement of equipment or components(including software) must be operated by professional or authorized personnel.

2.5 Electrical Safety

1) Before electrical connections, please make sure that the equipment is not damaged, otherwise it may cause electric shock or fire;
2) Do not install or remove any power cord when power up. Arcing or sparks may

be generated when the power cord is in contact with a conductor, which may cause fire or personal injury;

3) All electrical connections must comply with the national electrical standards where the project is located;
4) The cables provided by the user shall comply with the local laws and regulations;
5) Special insulation tools shall be used for high-voltage operation;
6) Make sure that the identification on the power cord is correct before connecting the power cord;
7) The equipment can only be operated after 5 minutes when the device is completely powered off;
8) When the cables are used in a high temperature environment, the insulation layer of the cable may be aged or damaged. Therefore, the distance between the cable and the heat source must be at least 30mm;
9) Cables of the same type shall be tied together, and the wiring time distance of different types of cables shall be at least 30mm, without winding or crossing.

2.5.1 Earthing Requirements

1) When installing equipment that needs to be grounded, the protective ground wire must be installed first; when dismantling the equipment, the protective grounding wire must be removed last;
2) Do not destroy the grounding conductor;
3) It is forbidden to operate the equipment without installing the grounding conductor;
4) The equipment should be permanently connected to ground wire. Before operating the equipment, check the electrical connection of the equipment to ensure that the equipment is reliably grounded.

2.5.2 Installation Environment Requirements

1) This product is only for indoor use, it is strictly prohibited to use in the outdoor environment;
2) Do not install or use this product in temperatures below -10℃ or above 50℃;
3) Should be installed in a dry, well-ventilated environment to ensure good heat dissipation performance;

4) The product can be installed at an altitude of 2000m above sea level;
5) The installation position should be far away from the fire source;
6) Keep away from children and animals during installation and use;
7) The installation position should be far away from the faucet, sewer, nozzle and other water sources, to avoid water intake;
8) The equipment shall be placed on a firm and flat supporting surface;
9) Do not place any inflammable and explosive items around the equipment;
10) Do not block the vent and heat dissipation system to prevent fire caused by high temperature when the equipment is running.

2.5.3 Installation Notes

Before installation, please read this manual carefully and be familiar with the installation steps.

1) Avoid putting metal objects near the battery to prevent short circuit;
2) Acid gas may be generated while charging, so ensure that the environment is well ventilated;
3) When installing the cabinet, be sure to leave enough space around the equipment for heat dissipation; do not install the equipment and lead-acid liquid battery in the same cabinet to avoid corrosion of the equipment by the acid gas generated when the battery is working;
4) Only charge the type of battery that matches this equipment;
5) The weak connection point and the corroded wire may cause great heat to melt the wire insulation layer, burn the surrounding materials, and even cause fire, so to ensure that the connector is tightened, the wire is best fixed with a tie belt, to avoid the wire shaking and loose connector during the mobile application;
6) The system connection cable is selected according to a current density of no more than 5A/mm2;
7) Avoid direct sunlight and rain infiltration during outdoor installation;
8) After the switch of the power supply is turned off, there is still high voltage inside the equipment. Do not open or touch the internal devices, and carry out the relevant operation after the capacitor is discharged;
9) Do not install the equipment in damp, greasy, flammable, explosive, large amount of dust and any other severe environment;
10) The polarity of the battery input terminal of this product is forbidden to be

reversed. Otherwise, it is easy to damage the equipment or cause unpredictable dangers;

11) Mains input and AC output are high voltage, please do not touch the wiring point;
12) Do not touch the fan while working to prevent injury;
13) For the input power of the load equipment, it must be confirmed that this equipment is the only input device, and it is forbidden to use it in parallel with other input AC power sources to avoid damage.

2.6 Warning Label

Symbol	Description
	Trash bin forbidden
	Recyclable
	EU Regional Certification
	Electric shock hazard
	Explosive gas
	Alternating current
	Dangerous weight
	Away from babies
	Ensure good connection
	No open flames
	Follow the manual

3. Product Introduction

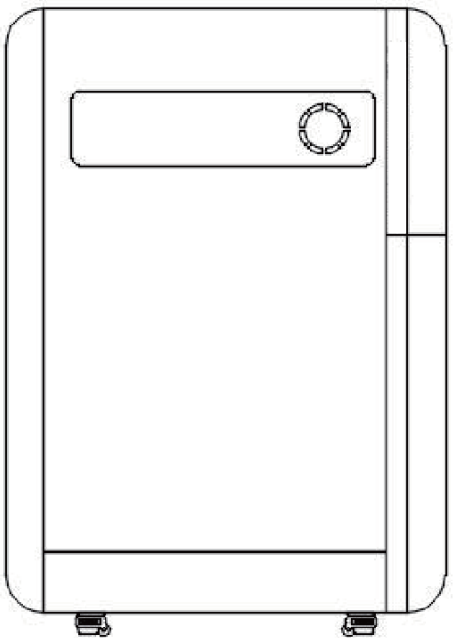
3.1 Product Overview and Features

DBH06-XFM15.36K-EU is a new generation of household energy storage system, which has the characteristics of small footprint and simple appearance, and can meet the more diversified needs of global users. DBH06-XFM15.36K-EU adopts block design, including separation of power module and inverter module, to meet more installation requirements.

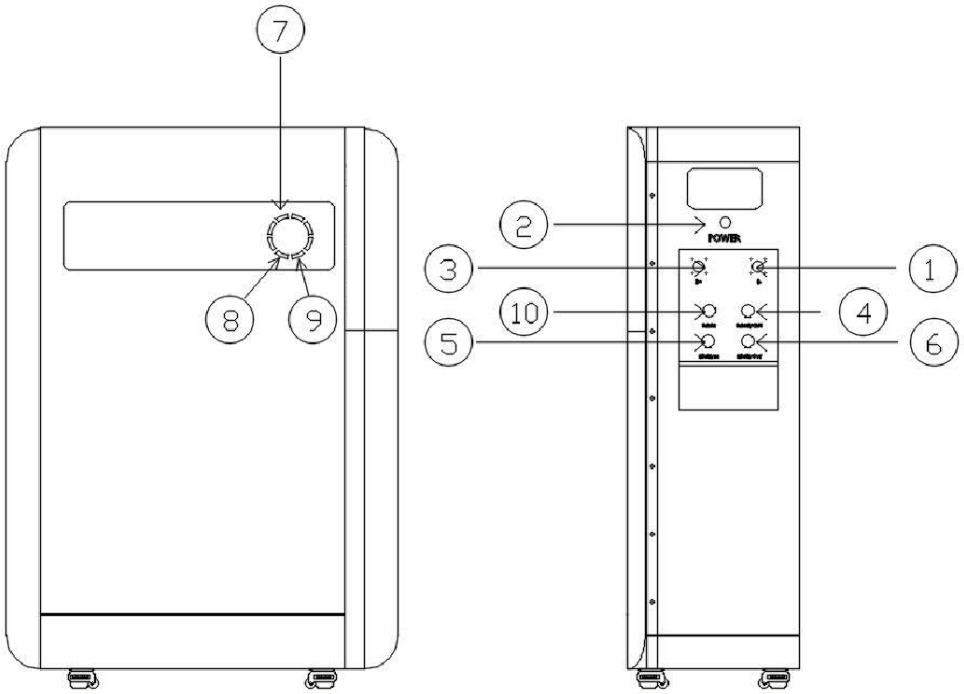
The energy storage module adopts high performance and long life lithium iron phosphate battery. Meanwhile, each module consists of 16 280Ah cells connected in series into a 51.2V voltage battery module. Each energy storage module is integrated with a BMS system, used for real-time monitoring and protection of each cell.

3.2 Appearance Description

The DBH06-XFM15.36K-EU consists of battery module(including cell and shell parts), battery management system (BMS), PCS and communication terminal. Product appearance is shown in the figure below:



3.2.1 Appearance Introduction



NO.	Explain
①	Battery Negative Electrode Interface
②	Battery ON/OFF
③	Battery Positive Electrode Interface
④	RS485 / CAN / PCS Communication Interface
⑤	RS485 Parallel Input Communication Interface
⑥	RS485 Parallel Output Communication Interface
⑦	SOC
⑧	Battery Operation Indicator
⑨	Battery Alarm Indicator
⑩	RS232 Communication Interface

3.2.2 Port Function Description

Port	Function
Communication Interface	PCS RS485/CAN Communication
	RS485-IN Communication
	RS485-OUT Communication
	RS232 Communication
Negative Terminal	Representative of the PACK B-
Earth Terminal	Terminal Ground
Positive Terminal	Representative of the PACK B+
Lamp Panel	SOC and Status Display
Power Button	Battery On/Off

3.3 Working Principle and Function

DBH06-XFM15.36K-EU is an energy storage unit composed of electrochemical batteries switch buttons, battery management unit, power supply and signal terminals, and mechanical components. Compared with other batteries, it has better charge and discharge performance, more accurate state monitoring, longer cycle life, and less self-discharge loss. The entire battery system communicates with the Power Conversion System (PCS) via the RS485/CAN.

4. Installation Matters

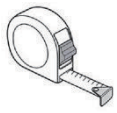
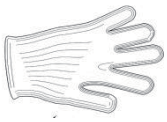
4.1 Check before Installation

Packing Inspection: Before opening the packaging of the energy storage, inspect the outer packaging for any visible damage, such as holes, cracks, or other signs of possible internal damage, and check the type of energy storage. If there is any abnormality in the packaging or the energy storage model is inconsistent, please do not open it and contact us as soon as possible.

Inspect the deliverables: After opening the outer packaging of the energy storage, check whether the delivery is complete and whether there is any obvious

external damage. If any items are missing or damaged, please contact us.

4.2 Tool and Labor Insurance

Type	Tool/Labor Security		
Installation Tool			
			
Personal Wear			

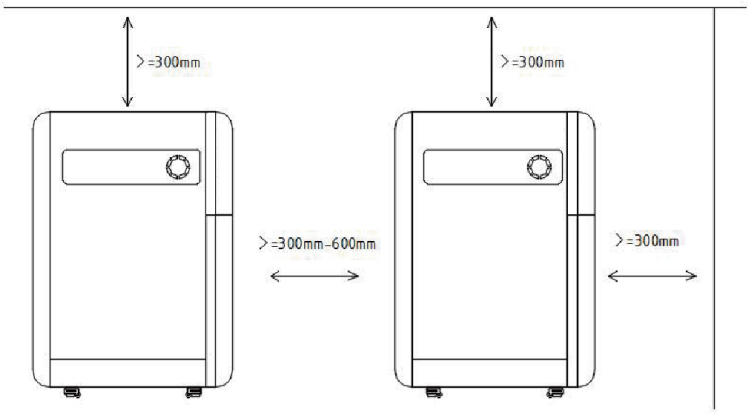
4.3 Selection of Installation Location

4.3.1 Basic Requirements

1) When the energy storage runs, the temperature of the cabinet and the radiator will be very high. Therefore, please do not install it where it is easy to touch;
2) Do not install near the place where flammable and explosive materials are stored;
3) If an energy storage device is installed in a salty area, it will be corroded and may cause a fire. Therefore, do not install it in outdoor areas with salt damage. Salt damage area is defined as the area below 500m from the coast or affected by sea breeze. The area affected by sea breeze varies depending on meteorological conditions(such as typhoon, monsoon) or topographical conditions(dam, hill).
4) Do not install where accessible to children;
5) Goggles and protective gloves shall be worn when drilling in walls or ground;
6) When drilling, the equipment should be shielded to prevent debris from falling into the equipment. After the drilling process, the debris should be cleaned up in time;
7) When carrying heavy objects, you should be prepared to bear the heavy objects so as not to be crushed or sprained;
8) When operating the equipment by hand, wear protective gloves to avoid injury.

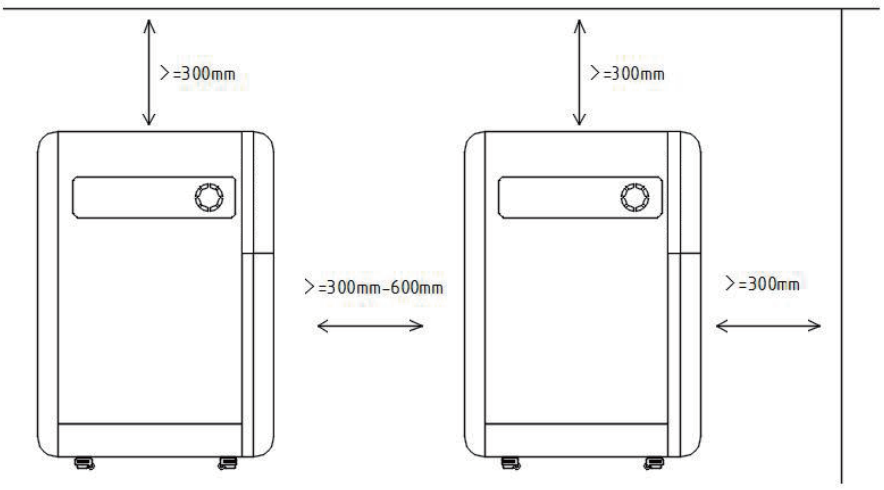
4.3.2 Requirements for the Installation Space

When installing the energy storage equipment, some space should be left around it to ensure that there is enough space for installation and heat dissipation.



4.4 Equipment Installation

Floor installation:



5. Electrical Connection

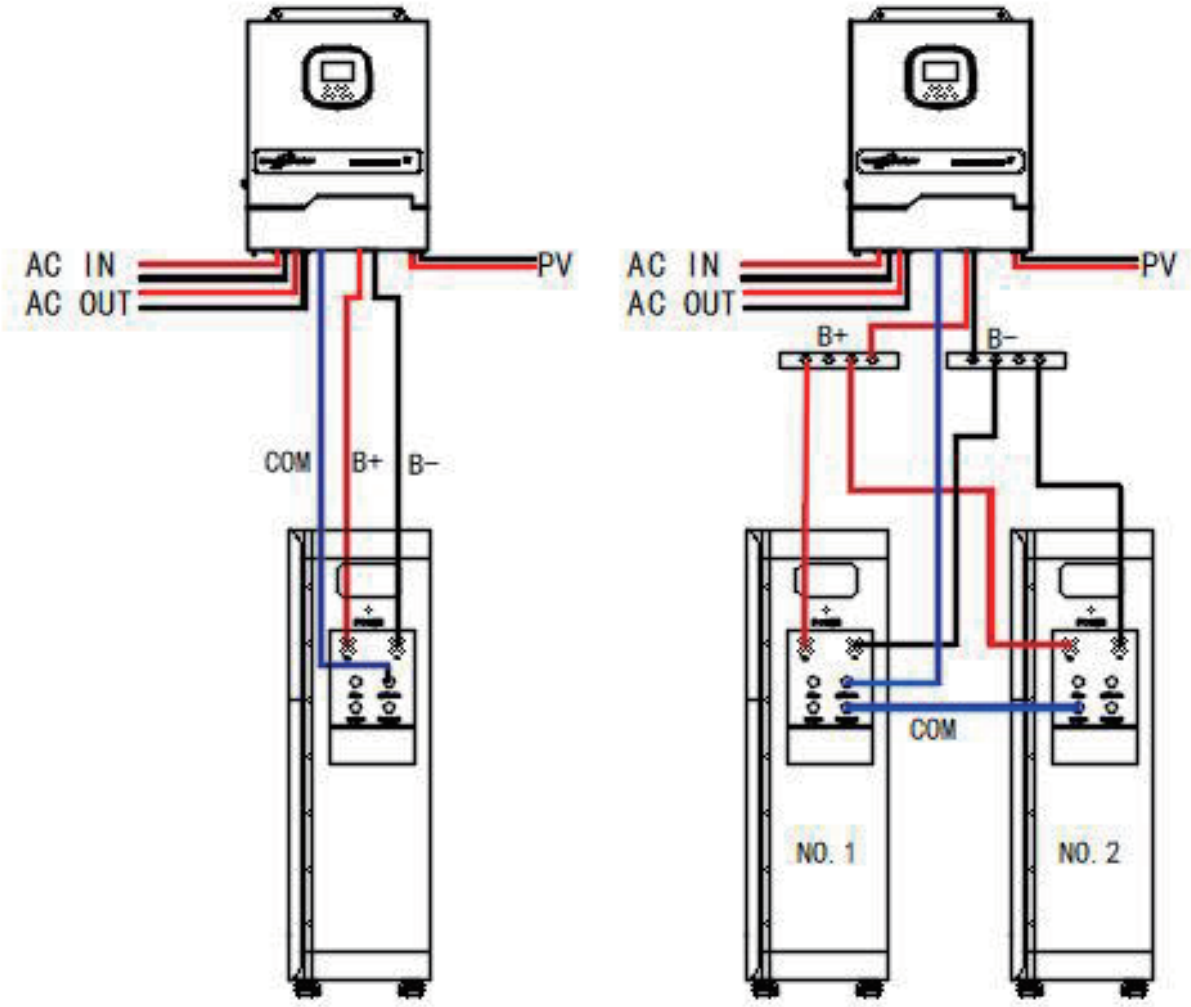
Before electrical connection, ensure that the switches of the energy storage and the power module and all switches connected to the energy storage are in "OFF" state and the power module is in "OFF" state. Otherwise, the equipment voltage may

be too high.

1) Equipment damage caused by wiring error is not within the scope of the equipment warranty;
2) The operations related to the electrical connection must be carried out by the professional electrical technicians;
3) When making an electrical connection, the operator must wear protective equipment.

Before connecting the battery module, ensure that the battery is not active and the battery indicator OFF. Use the power cord shipped with the product to connect the positive and negative electrodes of the other battery or power module. It should be noted that the red cable is connected to the red terminal (positive terminal), and the black cable is connected to the black terminal (negative terminal).

The signal wires shipped with the product are used for connecting the RS485 interface for each battery module, The communication port of the inverter requires a connection to the RS485/CAN interface. The PV line should be distinguished between into +/- poles, and correctly distinguish between L/N and grounding when connecting AC input wires and AC output wires to avoid short circuit (reference to inverter instruction manual for inverter wiring).



5.1 Battery Module Address Setting

When multiple energy storage battery modules are used in parallel, the product automatically allocates the host and slave address: long press the host POWER button 6S or above, and the battery system will automatically allocate the host and slave address.

5.2 LED Indication Function

Status	Normal / warning/ protection	ON/ OFF	RUN	ALM	Battery capacity LED						Definition
		●	●	●	●	●	●	●	●	●	
Power Off	Battery capacity	NO	NO	NO	NO	NO	NO	NO	NO	NO	ALL NO

Ready Mode	Normal	YES	Flash 1	NO	Indicate according to the battery capacity						Ready mode status
	Warning	YES	Flash 1	Flash 3							Refer to Remarks
Charging	Normal	YES	YES	NO	Indicate according to the battery capacity(LED 2 flash when it indicate the highest battery capacity)						LED 2 flash when it is highest battery capacity
	Warning	YES	YES	Flash 3							
	Over charging protection	YES	YES	NO	YES	YES	YES	YES	YES	YES	Full power is the highest LED and often bright
	Overcharging protection	YES	YES	YES	YES	YES	YES	YES	YES	YES	Stop Charging
	Temperature over current, failure protection	YES	NO	YES	NO	NO	NO	NO	NO	NO	Stop Charging
Discharging	Normal	YES	Flash 3	NO	Indicate according to the battery capacity						
	Warning	YES	Flash 3	Flash 3							
	Under voltage protection	YES	Flash 3	YES	NO	NO	NO	NO	NO	NO	Power empty
	Over temperature, current,short circuit, reverse connection, failure protection	YES	NO	YES	NO	NO	NO	NO	NO	NO	Stop discharging
Invalidation		NO	NO	YES	NO	NO	NO	NO	NO	NO	Stop charging and discharging

Note: "Alarm" refers to large pressure difference, low capacity, low single voltage, total low pressure, charging overcurrent, discharge overcurrent, high cell temperature, low cell temperature, high ambient temperature, low ambient temperature and high MOS temperature.

5.2.1 Capacity Indicator

Status	Charging	Discharging

Capacity dictator		L1 ●	L2 ●	L3 ●	L4 ●	L5 ●	L6 ●	L1 ●	L2 ●	L3 ●	L4 ●	L5 ●	L6 ●
Battery level (%)	0%~ 8%	Flash2	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO
	8%~26%	YES	Flash2	NO	NO	NO	NO	YES	YES	NO	NO	NO	NO
	26%~50%	YES	YES	Flash2	NO	NO	NO	YES	YES	YES	YES	NO	NO
	50%~74%	YES	YES	YES	Flash2	NO	NO	YES	YES	YES	YES	NO	NO
	74%~92%	YES	YES	YES	YES	Flash2	NO	YES	YES	YES	YES	YES	NO
	92%~ 100%	Flash2	YES	YES	YES	YES	Flash2	YES	YES	YES	YES	YES	YES
Working dictator●		YES						Flash 3					

5.2.2 LED Flashing Instructions

Flash Way	Bright	NO
Flash 1	0.25S	3.75S
Flash 2	0.5S	0.5S
Flash 3	0.5S	1.5S

5.3 Communication Function

5.3.1 RS485/DEBUG Communication

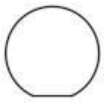
The BMS has the RS485 upper computer communication and cascade communication function of the battery pack, and the default value of the baud rate is 9600bps. The communication interface of RS485 is defined as shown in the table

below.

DEBUG interface, using the 8P8C vertical RJ 45 socket:

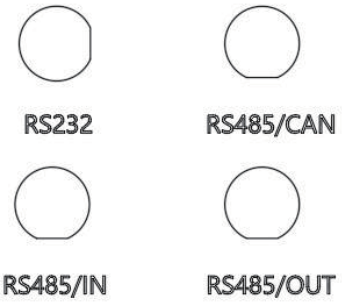
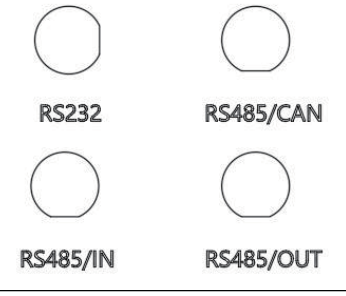
	Definition	Interface	Top View
1	NO1	DEBUG	
2	COM1		
3	RS232-TX/RS485A		
4	RS232-RX/RS485B		
5	Communication SGND		
6	NO2		
7	COM2		

PCS interface, using the 8P8C vertical RJ 45 socket:

	Definition	Interface	Top View
1	RS485-B1	PCS	
2	RS485-A1		
3	Communication SGND		
4	CANH		
5	CANL		

Parallel communication interface, using 8P8C vertical RJ 45 socket:

	Definition	Interface	Top View
1	RS485-B2	Parallel Interface IN	
2	RS485-A2		
3、6	Communication SGND		
4	CANL		
5	CANH		
7	RS485-A1		

8	RS485-B1		
1	RS485-B2	Parallel Interface OUT	
2	RS485-A2		
3、6	SGND		
4	CANL		
5	CANH		
7	RS485-A1		
8	RS485-B1		

5.4 Automatic Coding

Battery parallel connection: the battery communication line is connected successively by host RS485 OUT slave 1 RS485 IN and slave 1 RS485 OUT slave 2 RS485 IN.

Addressing:

1. When the battery is dormant, press the host button (3~6S) and release, and all battery packs in the system are activated and be automatically coded.

2. When the battery is in standby state, press the host button (6S) to release, and all the battery packs in the system are reset and automatically coded.

If the coding fails, all the indicators of the single machine flash together for 5min and then enter hibernation.(No external voltage is required). During normal operation, the master and slave communication is lost for 10s, and all the indicator lights flicker together for 5min. If the communication is not restored, the system enters hibernation.(No external voltage is required)

5.5 One-key Switch on and off

Press the switch button 3-6S of the host, and all batteries in the system enter sleep. In hibernation; press the switch button 3-6S of the host to activate all batteries in the system.

6. Equipment Acceptance

6.1 Acceptance Standard

NO.	Acceptance items	Acceptance Standard	Inspect
1	The energy storage battery is installed in place	The installation is correct, stable and safe.	
2	The installation environment meets the requirements	The installation space is reasonable, and the environment is clean and tidy.	
3	Battery power cord is connected correctly	The positive and negative poles are correctly connected with no omission.	
4	Battery signal wire is connected correctly	The signal wires are correctly connected and reliable.	
5	Reliable grounding	The ground wire is properly and firmly.	
6	All air switches of the power module are turned off	All the air switches are in the “OFF " state.	
7	All battery module switches are turned off	The start switch is in the “OFF” state	

7. Routine Maintenance and Storage of Batteries

7.1 Battery System Maintenance

After the system is powered off, the shell still has residual power and heat, which may cause electric shock or burns. Therefore, protective gloves should be worn before operating the energy storage system for 5 minutes after the system fails. Before maintaining the energy storage system, make sure that all indicators of the energy storage system are off.

During the operation of the energy storage system, the system cannot be completely powered off only by turning off the switch of the power unit. No maintenance operations can be performed on the energy storage system at this time.

System power-down operation steps:

①Disconnect the switch between the power supply unit and the AC output;

②Disconnect the switch between the power supply unit and the AC input;

③Disconnect the switch between the power supply unit and the PV unit;

④Close the switch between the power supply unit and the battery pack;

⑤Turn off all energy storage unit switches and press the energy storage key for 3 seconds until all lights are off and the battery is powered on.

7.2 Routine Maintenance

Item	Method	Maintenance Interval
Battery appearance inspection	Check the radiator regularly for shielding and dirt regularly; Check the appearance for damage and deformation; Listen to whether there is any abnormal sound during the operation.	Every six months to a year
Battery operation status check	When the device is running, check whether the parameter settings are set correctly.	Every six months
Battery line connection inspection	Check whether the line connection is disconnected or loose; Check whether	Six months after the first commissioning test, and

	the cable is damaged, especially whether the protective sleeve of the contact between the cable and the metal surface is cut out; Check that each interface is locked.	then six months to a year
Battery grounding line check	Check whether the grounding wire is secure.	Six months after the first commissioning test, and then six months to a year

7.3 Battery Storage

1) When stored, batteries should be placed correctly according to the mark on the box; do not reverse or side;
2) When packing stacked battery packs, they should meet the stacking requirements on the outer packaging.
3) The battery should be carefully handled, strictly prohibit damage to the battery;
4) Requirements for the storage environment:
    f) Ambient temperature: -10℃~ 55℃, recommended storage temperature: 20℃~ 30℃;
    g) Relative humidity: 5%RH-80%RH
    h) Dry, well-ventilated and clean
    i) Keep away from corrosive organic solvents, gases and other substances;
    j) Avoid direct sunlight;
    k) The distance from the heat source should not be less than 2 meters.
5) When stored, it should be disconnected from the outside; if there is an indicator light on the battery panel, the indicator light should be off.
6) After the battery is produced and tested, it should be charged to at least 50% SOC before storage; if the device is not used for a long time, the battery should be discharged to 45% ~ 60% of the battery capacity, and the battery output should be disconnected to avoid battery power exhaustion;
7) Do not touch the battery pack with your wet hands;
8) Do not squeeze, fall, or puncture the battery;
9) Batteries should always be disposed of in accordance with local safety

regulations;

10) The battery shall be stored and charged as specified in this manual;

11) When storing or transporting the battery, do not reverse the polarity of the battery, batteries must not be stacked without protective packaging, and the number of stacked pack batteries shall not exceed the number specified on the package;

12) All operators of the energy storage system shall follow the user manual, installation and maintenance manual, and quality assurance requirements; Equipment damage caused by ignoring or misreading user manuals, installation and maintenance manuals, and quality assurance requirements will void the product warranty.

7.4 Battery Module Data

Model	DBH06-XFM15.36K-EU
Nominal Voltage	51.2VDC
Voltage Range	44V-58.4V
Nominal Capacity	300Ah
Rated Capacity	15.36kwh
Communication Protocol	CAN/RS485/RS232
Maximum Number of Parallel Connections	15
Calendar Life	6000（@80% DOD)
Nominal Voltage	Temperature protection, over-current protection, short-circuit protection, over-charge protection, over-discharge protection, low-voltage protection
Charging Parameters	
Recommended Charging Current	100A
Maximum Charging Current	200A
Recommended Charging Voltage	58V
Maximum Charging Voltage	58.4V
Discharging Parameters	
Recommended Discharging Current	100A
Maximum Discharging Current	200A
Recommended Battery	44V

Discharge Cut-off Voltage	
Battery Cut-off Voltage	43.2 V
Battery Recovery Voltage	48V
Physical Parameters	
Dimension	800*580*255mm
Net Weight	131kg
Shell Material	Sheet metal
Protection Level	IP65
Installation Method	Wheel type
Cell Type	LiFePO4
Certification & Safety Standard	
Safety Certificate	CE
Transportation Safety Certification	UN38.3, Class9
Temperature Parameters	
Discharging Temperature	-20-65℃
Charging Temperature	0-55℃
Storage Temperature	-20-45℃

8. Accessories and Warranty Cards

8.1 Accessories

Item	Photo	Quantity	Unit
Energy storage parallel type cable		1	Set
Energy storage signal wire		1	Piece
Installation manual		1	Piece
Warranty card		1	Piece

8.2 Warranty Card

Maintenance Record

Dear user, thank you for selecting our product.

Please fill in and keep the warranty card for better services.

Name:_____

Tel:_____

Address:_____

Brand:_____

Product No:_____

Equipment No:_____

Purchase Date:_____

Agent Name:_____

Maintenance Record			
Date of Repair	Content	Maintenance Personnel	Note