



User Manual

Rechargeable Li-ion Battery System

RW-F10.2



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About This Manual

The manual mainly describes the product information, guidelines for installation, operation, and maintenance. The manual cannot include complete information about the solar photovoltaic-energy storage hybrid system.

How to Use This Manual

Read the manual and other related documents before performing any operation on the battery. Documents must be stored carefully and be always available.

Content may be updated or modified periodically due to product update iterations. The manual is subject to change without prior notice. The latest manual can be acquired via service-ess@deye.com.cn (www.deyeess.com).

1. Safety Introductions



Reminding

- 1) It is very important and necessary to read the user manual carefully (in the accessories) 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.
- 2) If the battery is stored for long time, it is required to charge them every six months, and the SOC should be no less than 50%.
- 3) Battery needs to be recharged within 48 hours after fully discharged.
- 4) Do not expose cable outside.
- 5) All the battery terminals must be disconnected for maintenance.
- 6) Please contact the supplier within 24 hours if there is something abnormal.
- 7) Do not use cleaning solvents to clean battery.
- 8) Do not expose battery to flammable or harsh chemicals or vapors.
- 9) Do not paint any part of Battery, include any internal or external components.
- 10) Do not connect battery with PV solar wiring directly.
- 11) The warranty claims are excluded for direct or indirect damage due to items above.
- 12) Any foreign object is prohibited to insert into any part of battery.





Warning

1.1 Before Connecting

- 1) After unpacking, please check product and packing list first, if product is damaged or lack of parts, please contact with the local retailer.
- 2) Before installation, be sure to cut off the grid power and make sure the battery is in the turned-off mode.
- 3) Wiring must be correct, do not mistake the positive and negative cables, and ensure no short circuit with the external device.
- 4) It is prohibited to connect the battery and AC power directly.
- 5) Battery system must be well grounded and the resistance must be less than 1Ω .
- 6) Please ensure the electrical parameters of battery system are compatible to related equipment.
- 7) Keep the battery away from water and fire.

1.2 In Using

- 1) If the battery system needs to be moved or repaired, the power must be cut off and the battery is completely shut down.
- 2) It is prohibited to connect the battery with different type of Battery.
- 3) It is prohibited to put the batteries working with faulty or incompatible inverter.
- 4) It is prohibited to disassemble the battery.
- 5) In case of fire, only dry fire extinguishers can be used. Liquid fire extinguishers are forbidden.
- 6) Please do not open, repair, or disassemble the battery except staffs from DEYE or authorized by DEYE. We do not undertake any consequences or related responsibility which because of violation of safety operation or violating of design, production, and equipment safety standards.

2. Introduction

- ✧ RW-F10.2 lithium iron phosphate battery is one of new energy storage products developed and produced by DEYE, it can be used to support reliable power for various types of equipment and systems.
- ✧ RW-F10.2 is especially suitable for application scene of high power, limited installation space and long cycle life.
- ✧ RW-F10.2 has built-in BMS battery management system, which can manage and monitor cells information including voltage, current and temperature. What's more, BMS can balance cells charging and discharging to extend cycle life.
- ✧ Multiple batteries can connect in parallel to expand capacity and power in parallel for larger capacity and longer power supporting duration requirements.

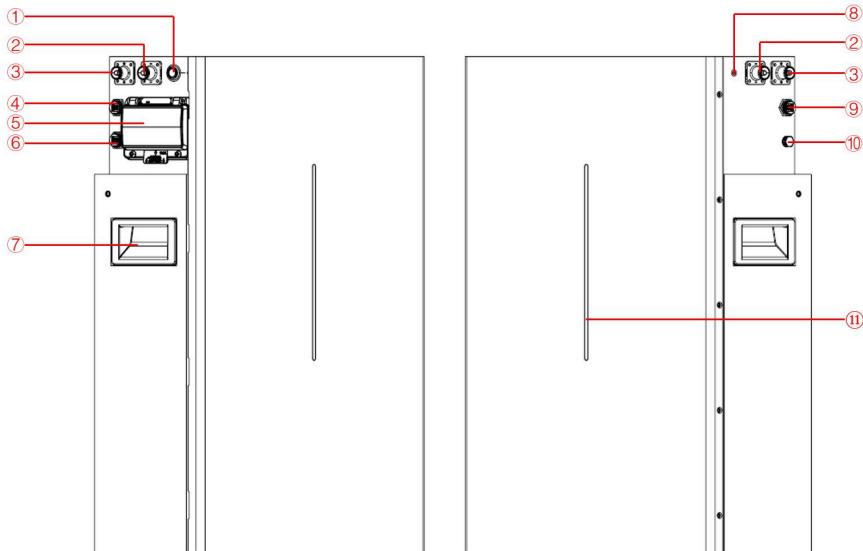
2.1 Product Features

- 1) Cobalt Free Lithium Iron Phosphate (LFP) Battery, safety and long lifespan and high-energy density. Low Voltage safety connection.
- 2) Maximum support 1C charge and 1.25C discharge.
Maximum 6000 cycles at 90% DOD, and 10 years standard warranty.
- 3) Battery management system (BMS) has protection functions including over-discharge, over-charge, over-current and high & low temperature.
- 4) Built-in Intelligent BMS, providing complete protection. Natural cooling, IP65, wide temperature range: -20°C to 55°C.
- 5) Modular design, easy to expand, Max. 32 units in parallel, Max. capacity of 320kWh. Suited to residential and commercial applications for increasing the self-consumption ratio.
- 6) Battery module auto networking (No DIP switch code), easy maintenance, support Deye remotely monitoring and upgrade. Also supports Deye inverters to form a stack all-in-one system.
- 7) Use environmental protection materials, the whole module non-toxic, pollution-free.
- 8) Flat design, Wall-mounted with Wall Bracket, Floor Stand with removable base, saving installation space.

2.2 Product Overview

This section details the front and side panel of the interface functions.

RW-F10.2 Product Interface



1. BMS Switch	7. Handle
2. Battery negative-	8. Grounding bolt
3. Battery positive+	9. Parallel communication port OUT
4. Inverter CAN/RS485 port PCS	10. Breather valve
5. Micro circuit breaker	11. Battery indicators
6. Parallel communication port IN	

BMS Switch

BMS Switch: to turn ON/OFF the whole battery BMS standby, no power output.

PCS

Inverter communication terminal: (RJ45 port) follow the CAN protocol (baud rate: 500K), used to output battery information to the inverter.

Definition of PCS Port Pin

No.	PCS Port Pin
1	485-B
2	485-A
3	--
4	CANH
5	CANL
6	--
7	485-A
8	485-B



IN

Parallel Communication Terminal: (RJ45 port) Connect “out” Terminal of Previous battery for communication between multiple parallel batteries.

Definition of IN Port Pin

No.	PCS Port Pin
1	CANL
2	CANH
3	DI+
4	DI-
5	DI-
6	DI+
7	CANH
8	CANL

**OUT**

Parallel Communication Terminal: (RJ45 port) Connect “IN” Terminal of Next battery for communication between multiple parallel batteries.

Definition of Out Port Pin

No.	Out Port Pin
1	CANL
2	CANH
3	DO+
4	DO-
5	DO-
6	DO+
7	CANH
8	CANL

**LED Status Indicators Instructions**

Error : Red on the right and green on the left, long bright if equipment protected.

SOC : Battery capacity indicator, green light strip.

Condition	Error	SOC 0%~20%	SOC 0%~40%	SOC 0%~60%	SOC 0%~80%	SOC 0%~100%	
SOC							
Power off	off						
Charge	off	Show SOC & highest LED blink					
Discharge or Idle	off	Show SOC & long bright					
Alarm	off						
System error/Protect		Other LEDs are same as above.					
Upgrade		Blink Fastly					
Critical Error		Blink Slowly					

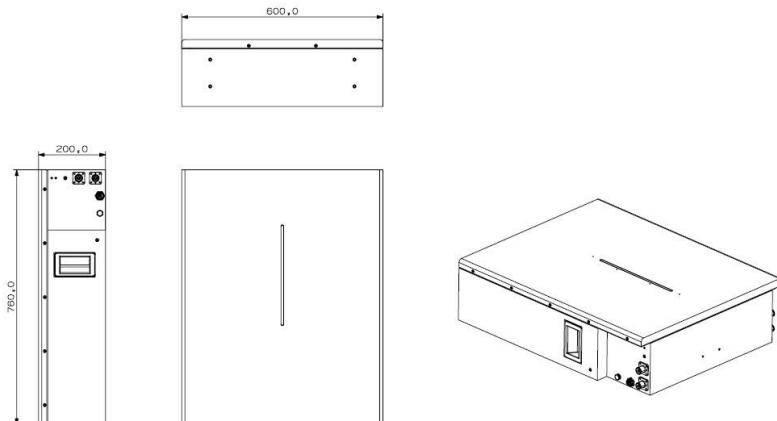
Grounding bolt

For the battery connecting to the PE.

BMS function:

Protection and Alarm	Management and Monitor
Charge/Discharge End	Intelligent Protect Mode
Charge Over Voltage	Intelligent Charge Mode
Discharge Under Voltage	Protect, Charge Current Limit
Charge/Discharge Over Current	Intelligent Protect Mode
High/Low Temperature(cell/BMS)	Intelligent Protect Mode
Short Circuit	Protect

2.3 Product Size



2.4 Technical Data

Main Parameter	RW-F10.2
Battery Chemistry	LiFePO4
Capacity (Ah)	200
Scalability	Max.32 pcs pack (Max.326kWh) in parallel
Nominal Voltage (V)	51.2
Operating Voltage(V)	44.8~57.6
Energy (kWh)	10.2
Usable Energy (kWh) ^[1]	10.2
Rated DC Power(kW)	6
Max DC Power(kW)	12
Charge/Discharge Current (A)	Recommend ^[2]
	Charge: 100 / Discharge: 100

	Max. ^[2]	Charge: 198 / Discharge: 240
Other Parameter		
Recommend Depth of Discharge	100%	
Dimension (W/H/D, mm)	600*760*200(Without hanging board)	
Weight Approximate(kg)	104	
Master LED indicator	5LED(SOC:20%~SOC100%), 2LED (working, protecting)	
IP Rating of enclosure	IP65	
Working Temperature	Charge: 0 ~ 55°C/Discharge: -20°C ~ 55°C	
Storage Temperature	0 ~ 35°C	
Humidity	5%~95%	
Altitude	≤3000m	
Installation	Wall-Mounted, Floor-Mounted	
Communication Port	CAN2.0, RS485	
Certification	UN38.3, IEC62619, CE, CEI 0-21, VDE2510-50, CEC	

[1] DC Usable Energy, test conditions: 100% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.

[3] Conditions apply, refer to Deye Warranty Letter.

[4] Made in China

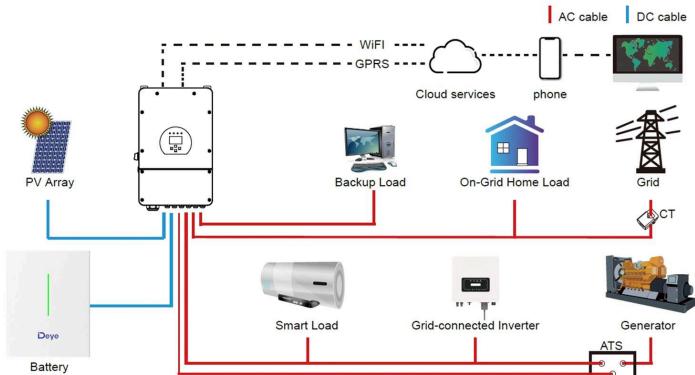
2.5 Product application solutions

The following illustration shows basic application of this battery.

It also includes following devices to have a complete running system.

- Generator or Utility
- PV modules
- Hybrid Inverters (Charge & Discharge)

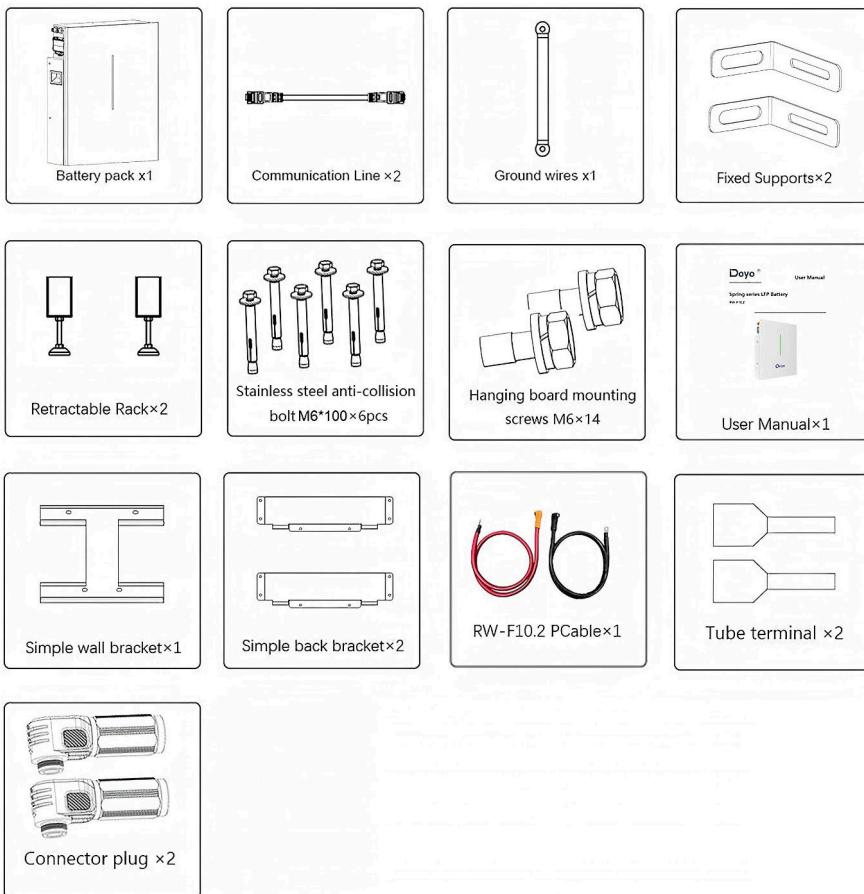
Consult with your system integrator for other possible system architectures depending on your requirements.



The picture is only an effect picture, please refer to the actual product, the final interpretation right belongs to DEYE.

3. Parts List

Check the equipment before installation. Please make sure nothing is damaged in the package. You should have received the items in the following package.



4. Preparations for Installation

4.1 Explanation of Symbol

Terms /Symbols	Description
 Danger	Indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury
 Warning	Indicates a hazard with a medium level of risk which, if not avoided, will result in death or serious injury.
 Caution	Indicates a hazard with a low level of risk which, if not avoided, will result in minor or moderate injury.
 Notice	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results. NOTICE is used to address practices not related to personal injury.
 Note	Supplements the important information in the main text. NOTE is used to address information not related to personal injury, equipment damage, and environment deterioration.
 Caution , risk of electric shock symbol	Indicates important safety instructions, which if not correctly followed , could result in electric shock.
 The DC input terminals of the inverter must not be grounded.	
 Surface high temperature.	Please do not touch the inverter case.
 CE	CE mark of conformity
 Please read the instructions carefully before use.	
 Indicate that this product is recyclable	
 Do not place near open fire or incinerate.	Do not use near heaters or hot temperature source.
 Attention! The risk of explosion.	
 Li-ion battery	
 Do not tread	
 Do not run and chase	
 Do not touch with your palm	

	Symbol for the marking of electrical and electronics devices according to Directive 2002/96/ EC. Indicates that the device , accessories and the packaging must not be disposed as unsorted municipal waste and must be collected separately at the end of the usage. Please follow Local Ordinances or Regulations for disposal or contact an authorized representative of the manufacturer for information concerning the decommissioning of equipment.
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4.2 Tools

These tools are required to install the battery.



Torque Screwdriver



Phillips Screwdriver



Hexagon Wrench



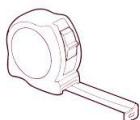
Phillips Screwdriver



Slotted Screwdriver



Torque Wrench



Tape Measure



Driller



Pencil or Marker



Wire Stripper



Hydraulic Pliers

NOTE:

Use properly insulated tools to prevent accident tale electric shock or short circuits.

If insulated tools are not available, cover the entire exposed metal surfaces of the available tools, except their tips, with electrical tape.

4.3 Safety Gear

It is recommended to wear the following safety gear when dealing with the battery pack.



Safety gloves



Safety goggles



Safety shoes

5. Mounting instructions

5.1 Installation Precaution

- ❖ Qualified Installer Required: Installation must be performed by a qualified electrician in accordance with the National Electrical Code (NEC) and all local codes.
- ❖ Power Off Before Installation: Ensure the battery is powered off before beginning any installation work (both the power button and air breaker must be off).
- ❖ Proper Conduit is Mandatory: Appropriate conduit per code must be used for all connections to achieve the specified IP65 environmental rating and ensure proper grounding.
- ❖ Secure Connections: All electrical terminations must be torqued to the manufacturer's specified values to prevent overheating.

5.2 Installation Location

- ❖ Environmental Rating: The unit is housed in an IP65-rated enclosure, ensuring complete dust ingress protection and resistance to low-pressure water jets from any direction, making it suitable for both indoor and outdoor installation. To prolong the battery's lifespan, please try to avoid direct sunlight exposure, direct rainwater impact, snow cover, and being close to fire sources, etc.
- ❖ Temperature Range: The ambient air temperature must remain between -4°F and 131°F (-20°C to 55°C). Avoid locations in direct sunlight or spaces that may exceed these limits.
- ❖ Accessibility: Avoid high traffic areas in general.
- ❖ Clearances: Maintain the minimum clearances specified in this manual on all sides of the unit to ensure adequate cooling airflow and service access.
- ❖ Mounting Surface: The battery must be mounted on a solid, stable, non-combustible surface capable of supporting its full weight.
- ❖ Environment: Choose a clean, well-ventilated area, protected from flooding and direct exposure to water contact that is above the IP65 rating.

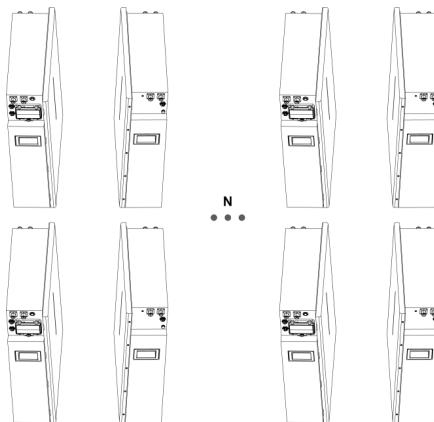


CAUTION

If the ambient temperature is outside the operating range, the battery pack stops operating to protect itself. The optimal temperature range for the battery pack to operate is 15°C to 35°C. Frequent exposure to harsh temperatures may deteriorate the performance and life of the battery pack.

5.3 Layout

If your installation site is limited and the space is relatively narrow, you can refer to the following layout for installation.

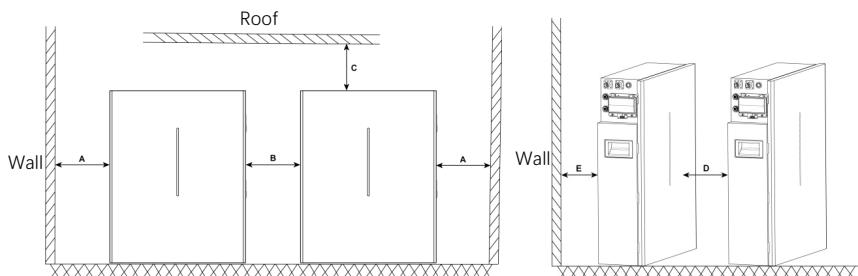


5.4 Installation clearance



Caution!

Batteries should be installed in a clean flat place with no direct sunlight, away from water and fire sources, and at a suitable temperature. The installation location is recommended to meet the size requirements of the figure below:



Item	Distance (mm)
A	≥ 70
B	≥ 100
C	≥ 40
D	≥ 20
E	0-40

5.5 Mounting the Battery



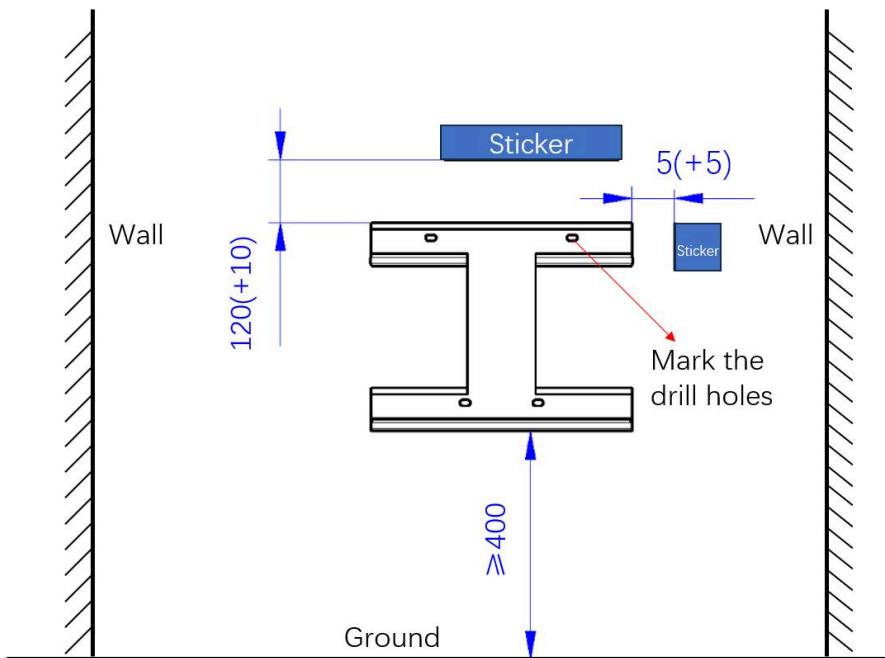
CAUTION

Remember that this battery is heavy! Please be careful when lifting out from the package.

5.5.1 Wall-Mounted method

a) Keep a distance of more than 400mm from the ground. After fixing the wall bracket, put a sticker on the right side (between 5 and 10mm). And a sticker on the top of it (between 120 and 130mm). Mark the drill hole location at the appropriate location.

The installation location description should meet the size requirements of the figure below:



b) Choose the recommended drill head (as shown in Figure 5-1) to drill 4 holes on the wall, 100mm-110mm deep.

c) Use a proper hammer to fix the hanging plate to the wall, fit the expansion bolt (M6*100) into the holes, as shown in Figure 5-1.

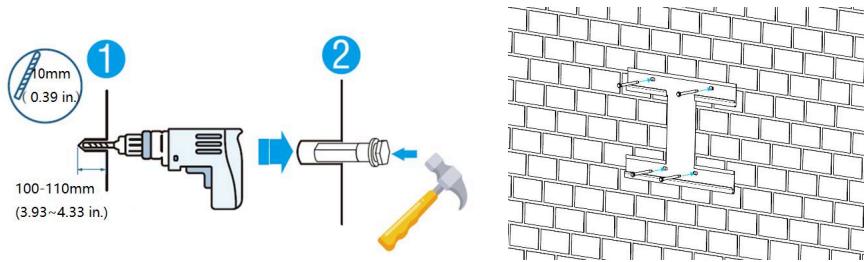


Figure 5-1

d) Use the 10 screws of M6 to fix the backplane to the back of the battery as shown in Figure 5-2.

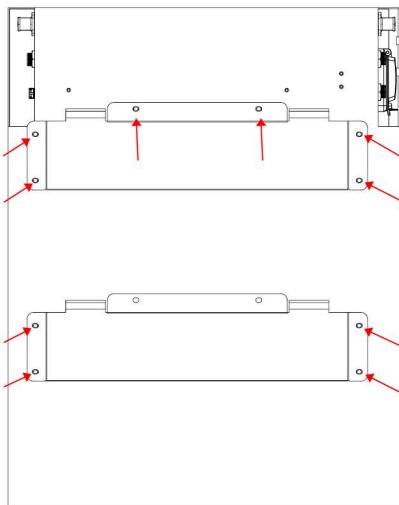
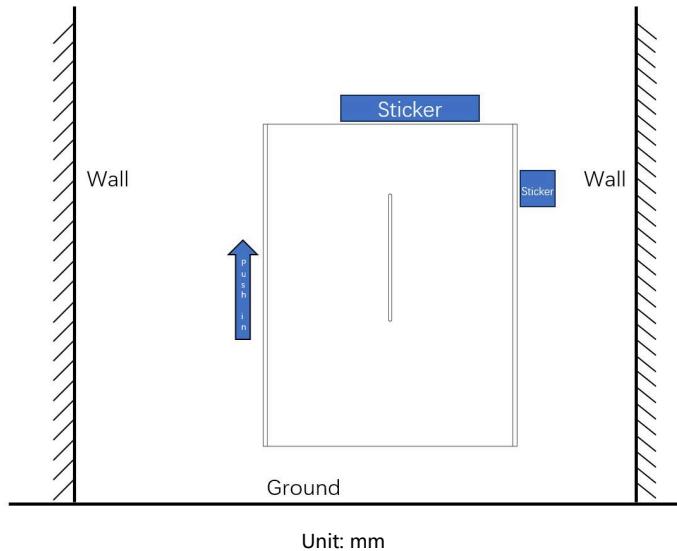


Figure 5-2

e) Then lifting the RW-F10.2 along the position of the sticker , push it on the wall bracket.



Unit: mm

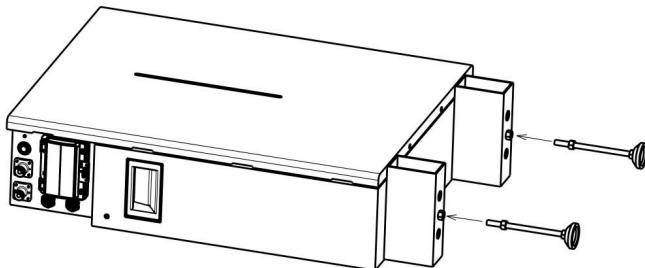
- f) Fasten the screw head of the expansion bolt to finish the mounting.
- g) Carry the battery and holding it, Fix the battery on the plate after fixing the hanging plate to the wall. Ensure that the upper and lower positions of the battery backplane hook are accurately buckled on the hanging plate, as shown in Figure 5-3.



Figure 5-3

5.5.2 Floor-Mounted method

- Fixing the foot cup to the bottom brackets.



- Adjust the length of the cup according the flatness of the ground.

- Use the 2 screws of M6 to fix the left and right retaining ears to the back of the battery, as shown in Figure 5-4.

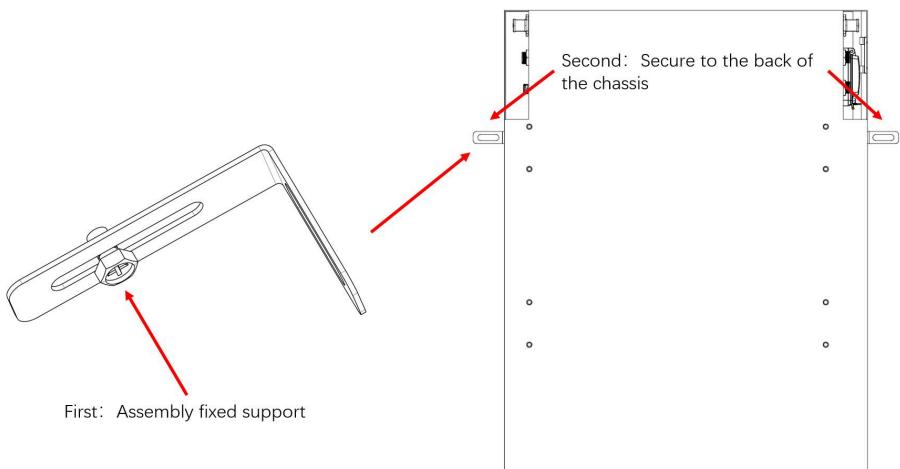


Figure 5-4

- Stand the battery on the side of the wall, mark the location of the fixing hole, Choose the recommend drill head (as shown in below picture) to drill 2 holes on the wall,100-110mm deep, as shown in Figure 5-2 and Figure 5-5.

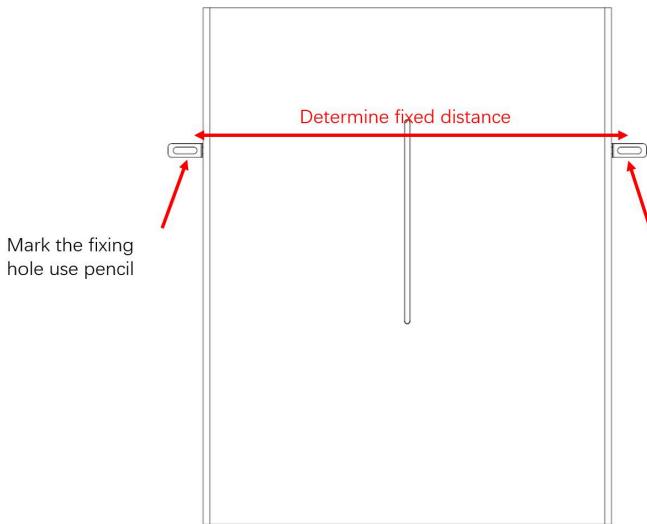


Figure 5-5

- e) Use a proper hammer to fixing the battery to the wall, fit the expansion bolt into the holes, as shown in Figure 5-2.
- f) Adjust the left and right screws to the appropriate position to ensure that the battery is perpendicular to the ground, as shown in Figure 5-6.

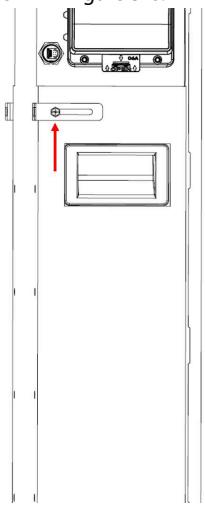
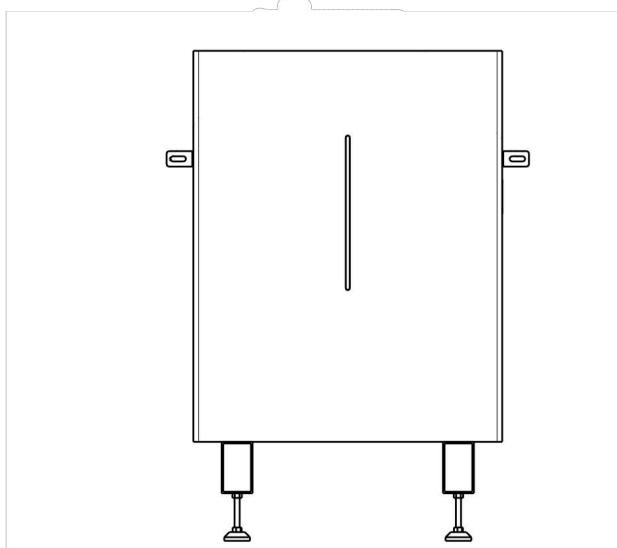


Figure 5-6

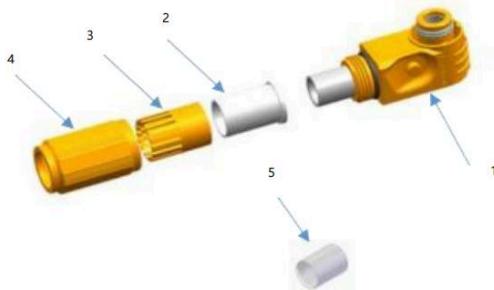
g) The installation results are as follows.



6 Electrical Connection

6.1 Preparation before wiring

Part 1: Package contents



1: Socket Package

2: Grommet

3: Gripping Jaw

4: Nut

5: Barrel sealing(Only for cable size 35mm²)

Part 2: Plug Assembly Instruction

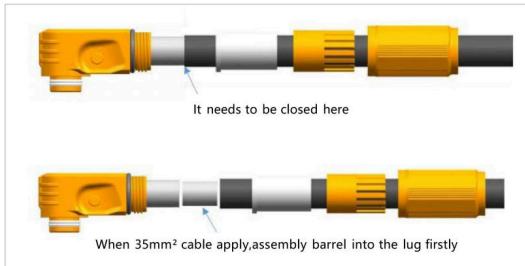
Step1: Strip off the jacket of the cable.



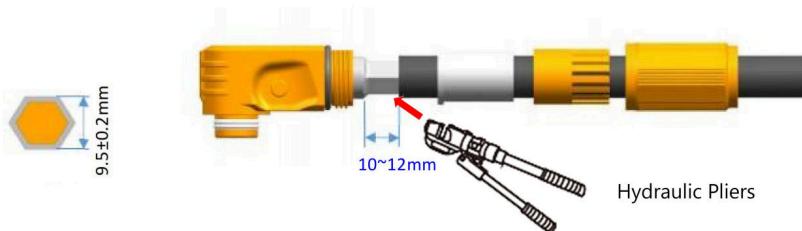
Step2: Put the nut, the Grommet and the gripping jaw on the cable as shown.



Step3: Insert the conductor into the lug.

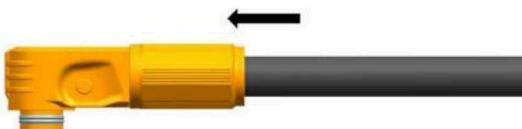


Step4: Crimping the lug as shown.



Notes: The recommended crimp sizes are only for reference. The customer should adjust them according to cable specification and crimp tool and test results including temperature rise and metallographic analysis and pullout force.

Step5: Push the seal, the jaw and the nut into the socket, then screw it.



Step6: Schematic diagram of matching plug and socket. (Warning: Do not disconnect under load)

Part 3: Description of terminal crimping

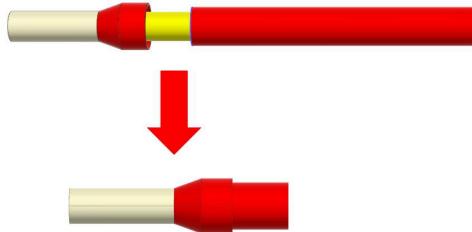
1. Prepare materials, obtain ENY 35-16 terminal, and its crimp wire.



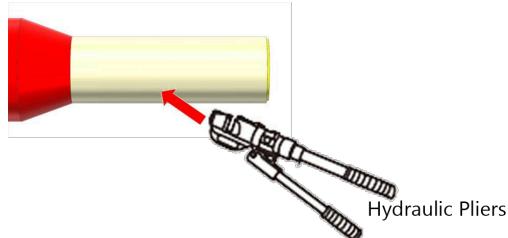
2. Wire, peel 18MM to 19MM.



3. Insert the wire into the ENY 35-16 terminal until it cannot be inserted.



4. Observe that 0.1 mm to 1MM copper wire is exposed at the end of the terminal, that is, the copper wire is inserted in place, and press the wire using appropriate crimping pliers.



5. The figure after crimping is complete.



6.2 Batteries in parallel

When connecting to inverters or being in parallel mode, please use cables provided in the unpacking list. If other cables must be used in special cases, ensure they meet relevant standard.

6.2.1 Parallel mode 1 (It is suitable for scenarios where the inverter power $\leq 15\text{kW}$)

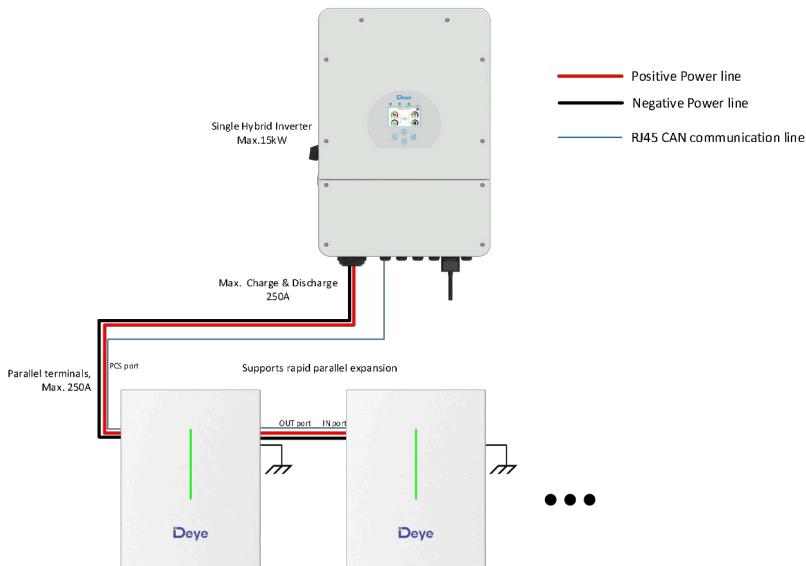


CAUTION

Cable requirements: The cross-sectional area of the cable must be at least 35 square meters. It should be noted that the maximum current of the first battery is 250A (inverter power must not exceed 15kW), exceeding 250A will cause heating of the connectors and cable, and in severe cases, it will cause a fire accident.

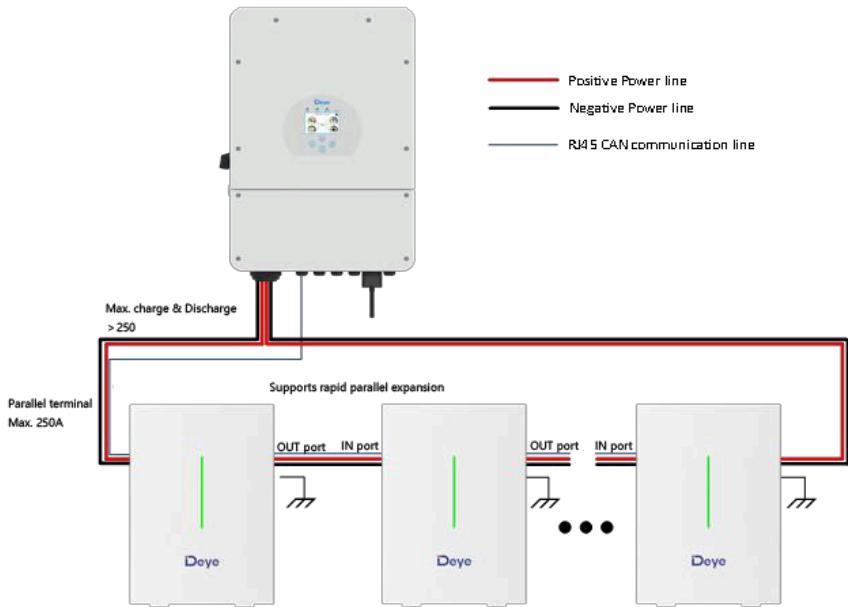
If the inverter power exceeds 15kW, the parallel mode must be used mode 2!

Schematic diagram of parallel connection of low-power system batteries:

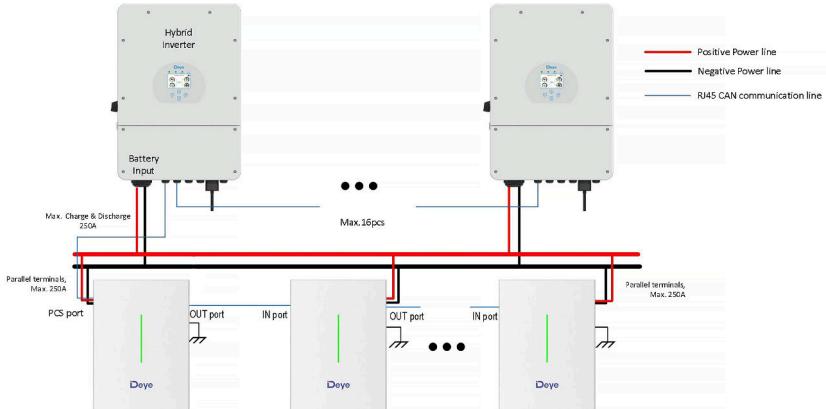


6.2.2 Parallel mode 2 (It is suitable for scenarios where the inverter power > 15kW)

Schematic diagram of parallel connection of high-power system batteries:

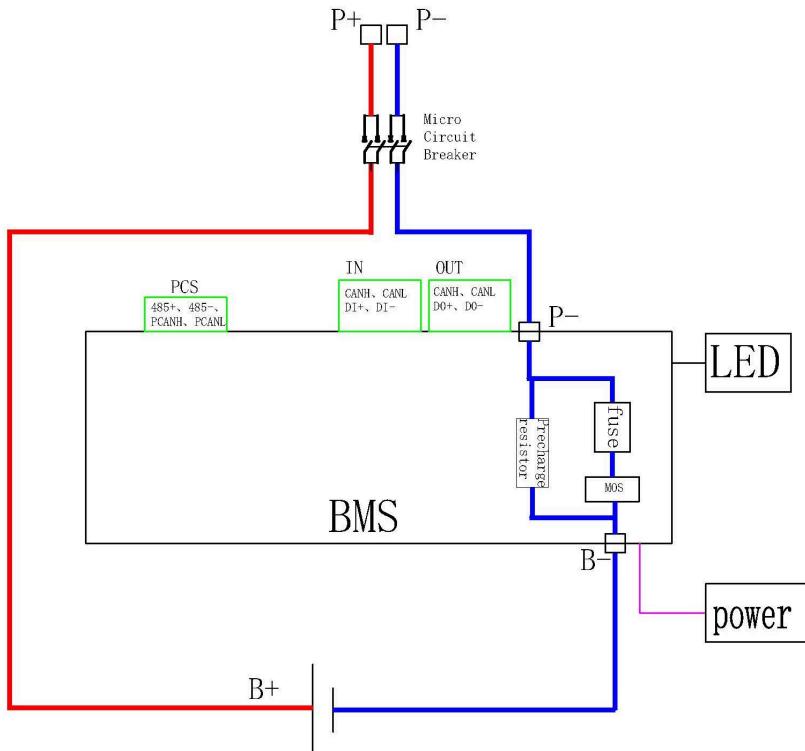


or larger capacity systems:



6.3 Electrical schematic diagram

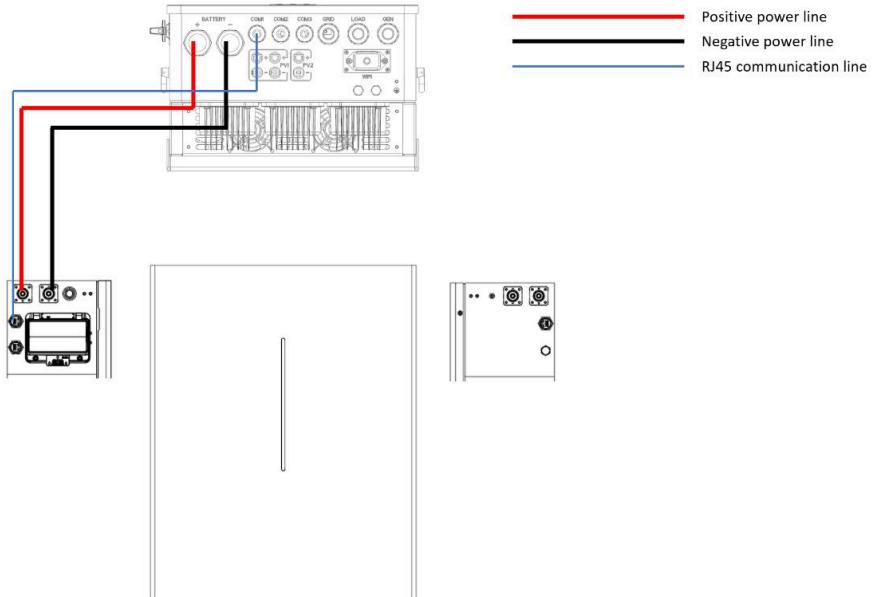
This diagram is for each battery module.



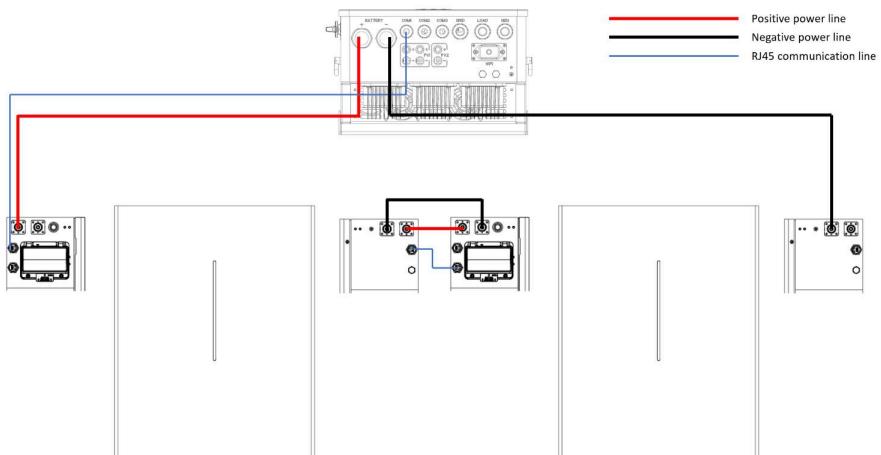
6.4 Battery connected to inverter

For the Australian Market, an overcurrent protection and isolation device that isolates both positive and negative conductors simultaneously is required between the battery system and inverter.

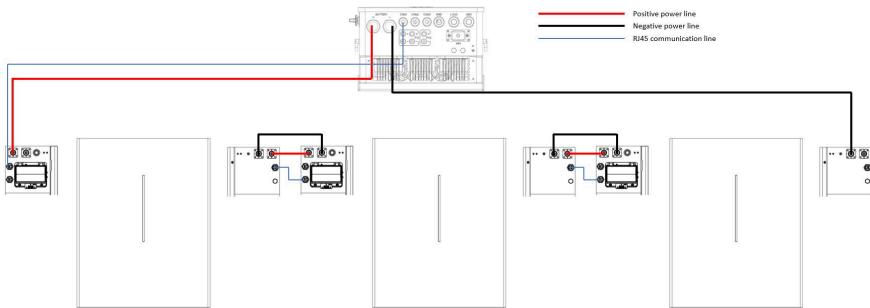
Single battery connected to inverter



Two batteries connected to inverter



Three batteries connected to inverter



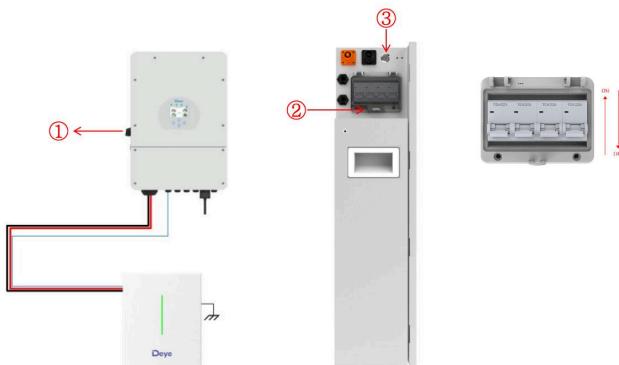
7 Visual Inspection of the Connection

After connecting the battery, check for:

- Usage of positive and negative cables.
- Connection of the positive and negative terminals.
- All the bolts are tightened.
- Cables fixation and the appearance.
- The installation of the protecting cover.

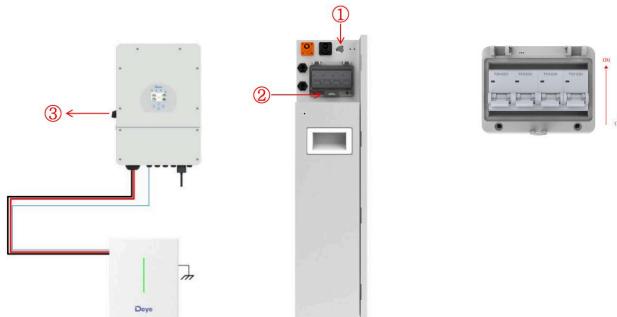
8 System startup and shutdown

- Power on steps:
 - After installation, wiring, and configuration, you must check all connections. When the connection is correct.
 - ①After the inverter is connected to the battery pack in the off state, turn on the inverter first. When the screen lights up, turn on the battery pack circuit breaker ("OFF" to the "ON").
 - ②Press the switch button.
 - ③When the LED is fully lit, the power is successfully powered on.



Power down steps:

- ① Press the battery switch first.
- ② When the LED stops shining, disconnect the circuit breaker of the battery pack("ON" to the "OFF").
- ③ Shut down the inverter.
- ④ Complete shutdown.

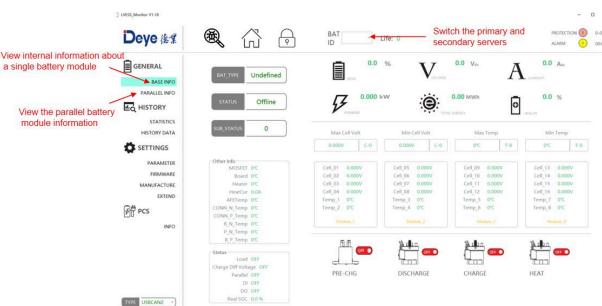


9 Method of monitoring parallel units

Monitoring requires external software, either through an inverter or individually.

Inverter: The PCS communication port of the battery pack, connect the inverter with the network cable, set the inverter to the lithium mode, and the information of the battery pack can be read after the communication is successful.

Separate monitoring: Use the can box to connect the IN or OUT communication port of the battery pack, and open the host computer of Deye to read the information of the battery pack.



10. Inspection, Cleaning and Maintenance

10.1 General Information

- The battery product is not fully charged. It is recommended that the installation be completed within 3 months after arrival;
- During the maintenance process, do not re-install the battery in the battery product. Otherwise, the performance of the battery will be reduced;
- It is forbidden to dismantle any battery in the battery product, and it is forbidden to dissect the battery;
- After the battery product is over-discharged, it is recommended to charge the battery within 48 hours. The battery product can also be charged in parallel. After the battery product is connected in parallel, the charger only needs to connect the output port of any product battery.
- Never attempt to open or dismantle the battery! The inside of the battery does not contain serviceable parts.
- Disconnect the Li-Ion battery from all loads and charging devices before performing cleaning and maintenance activities
- Place the enclosed protective caps over the terminals before cleaning and maintenance activities to avoid the risk of contacting the terminals.

10.2 Inspection

- Inspect for loose and/or damaged wiring and contacts, cracks, deformations, leakage, or damage of any other kind. If damage to the battery is found, it must be replaced. Do not attempt to charge or use a damaged battery. Do not touch the liquid from a ruptured battery.
- Regularly check the battery's state of charge. Lithium Iron Phosphate batteries will slowly self-discharge when not in use or whilst in storage.
- Consider replacing the battery with a new one if you note either of the following conditions:
 - - The battery run time drops below 70% of the original run time.
 - - The battery charge time increases significantly.

10.3 Cleaning

If necessary, clean the Li-Ion battery with a soft, dry cloth. Never use liquids, solvents, or abrasives to clean the Li-Ion battery.

10.4 Maintenance

The Li-Ion battery is maintenance free. Charge the battery to approximately > 80% of its capacity at least once every year to preserve the battery's capacity.

10.5 Storage

- The battery product should be stored in a dry, cool, and cool environment;
- Generally, the maximum storage period at room temperature is 6 months. When the battery is stored over 6 months, it is recommended to check the battery voltage. If the voltage is higher than 51.2V, it can continue to store the battery. In addition, it is needed to check the voltage at least once a month until the voltage is lower than 51.2V. When the voltage of the battery is lower than 51.2V, it must to be charged according to the charging strategy.
- The charging strategy is as follows: discharge the battery to the cutoff voltage with 0.2C(40A) current, and then charge with 0.2C(40A) current for about 3 hours. Keep the SOC of the battery at 40%-60% when stored;
- When the battery product is stored, the source of ignition or high temperature should be avoided and it should be kept away from explosive and flammable areas.

11. Troubleshooting

To determine the status of the battery system, users must use additional battery status monitoring software to examine the protection mode. Refer to the installation manual about using the monitoring software. Once the user knows the protection mode, refer to the following sections for solutions.

Fault Type	Fault Generation condition	Possible Causes	Troubleshooting
BMS fault	The cell voltage sampling circuit is faulty. The cell temperature sampling circuit is faulty	The welding point for cell voltage sampling is loose or disconnected. The voltage sampling terminal is disconnected. The fuse in the voltage sampling circuit is blown. The cell temperature sensor has failed.	Replace the battery.
Electrochemical cell fault	The voltage of the cell is low or unbalanced.	Due to large self- discharge, the cell over discharges to below 2.0V after long term storage. The cell is damaged by external factors, and short circuits, pinpricks, or crushing occur.	Replace the battery.
Overvoltage protection	The cell voltage is greater than 3.65 V in charging state. The battery voltage is greater than 58.4 V.	The busbar input voltage exceeds the normal value. Cells are not consistent. The capacity of some cells deteriorates too fast or the internal resistance of some cells is too high.	If the battery cannot be recovered due to protection against abnormality contact local engineers to rectify the fault.
Under voltage protection	The battery voltage is less than 44.8V. The minimum cell voltage is less than 2.8V	The mains power failure has lasted for a long time. Cells are not consistent. The capacity of some cells deteriorates too fast or the internal resistance of some cells is too high.	Same as above.

Charge or discharge high temperature protection	The maximum cell temperature is greater than 60°C	The battery ambient temperature is too high. There are abnormal heat sources around	Same as above.
Charge low temperature protection	The minimum cell temperature is less than 0°C	The battery ambient temperature is too low.	Same as above.
Discharge low temperature protection	The minimum cell temperature is less than -20°C	The battery ambient temperature is too low.	Same as above.

By checking the above data and sending the data to the service personnel of our company, the service personnel of our company will reply the corresponding solution after receiving the data.

12. Environmental Disposal

Used batteries can not be disposed of as household waste. You are obliged to handle waste batteries, such as removal of privacy on product, and return them to designated or authorized recovery point according to applicable regulations and standards on waste battery disposal.



Attention:

1. Do not dispose of batteries and rechargeable batteries as domestic waste!

You are legally obliged to return used batteries and rechargeable batteries.

2. Waste batteries may contain pollutants that can damage the environment or your health if improperly stored or handled.

3. Batteries also contain iron, lithium and other important raw materials, which can be recycled.

For more information, please visit <http://www.deyeess.com>. Do not dispose of batteries as household waste!



Li-ion



13. Transportation Requirements

The battery products should be transported after packaging and during the transportation process, severe vibration, impact, or extrusion should be prevented to prevent sun and rain. It can be transported using vehicles such as cars, trains, and ships.

Always check all applicable local, national, and international regulations before transporting a Lithium Iron Phosphate battery.

Transporting an end-of-life, damaged, or recalled battery may, in certain cases, be specially limited or prohibited.

The transport of the Li-Ion battery falls under hazard class UN3480, class 9. For transport over water, air and land, the battery falls within packaging group PI965 Section I.

Use Class 9 Miscellaneous Dangerous Goods and UN Identification labels for transportation of lithium-ion batteries which are assigned Class 9. Refer to relevant transportation documents.



Figure 9-1: Class 9 Miscellaneous Dangerous Goods and UN Identification Label

EU Declaration of Conformity

Product:Rechargeable Li-ion Battery System

System model:RW-F10.2

Name and address of the manufacturer: NINGBO DEYE ESS TECHNOLOGY CO., LTD

No.568, South Rixian Road, Binhai Economic Development Zone, Cixi, Ningbo, Zhejiang, P.R.China

This declaration of conformity is issued under the sole responsibility of the manufacturer. Also this product is under manufacturer's warranty.

This declaration of conformity is not valid any longer: if the product is modified, supplemented or changed in any other way, as well as in case the product is used or installed improperly.

The object of the declaration described above is in conformity with the relevant Union harmonization legislation: The Electromagnetic Compatibility (EMC) Directive 2014/30/EU;the Low Voltage Directive(LVD) 2014/35/EU;the restriction of the use of certain hazardous substances (RoHS) Directive 2011/65/EU&(EU)2015/863.

References to the relevant harmonized standards used or references to the other technical specifications in relation to which conformity is declared:

CB:	
IEC 62619:2022	●
IEC 63056:2020	
EMC:	
EN IEC 61000-6-2:2019	●
EN IEC 61000-6-4:2019	●
LVD:	
IEC 62040-1:2017	●
EN 62477-1:2012	
ROHS:	
IEC 62321-3-1:2013	
IEC 62321-5:2013	
IEC 62321-6:2015	
IEC 62321-7-1:2015	●
IEC 62321-8:2017	

Nom et Titre / Name and Title:

KunLei Yu
Test Manager

KL Yu
宁波德业储能科技有限公司

NINGBO DEYE ESS TECHNOLOGY CO., LTD

Au nom de / On behalf of:

2024-2-2

Date / Date (yyyy-mm-dd):

Ningbo, China

A / Place :

EU DoC-v1

NINGBO DEYE ESS TECHNOLOGY CO., LTD

No.568, South Rixian Road, Binhai Economic Development Zone, Cixi, Ningbo, Zhejiang, P.R.China