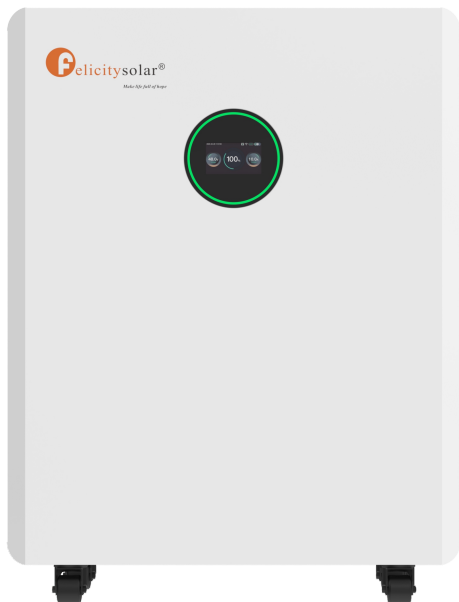


USER MANUAL



Model

FLA48628TG2

51.2V/32kWh

Revision History

Revision No.	Revision Date
V00	2026.09.21

NOTE: Due to the inherent update cycle of printed manuals, please refer to the latest electronic version available through official channels for the most up-to-date information.

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About This Manual

The manual mainly describes the introduction, installation, operation, and maintenance. Please read this manual carefully before installation and operation. Keep this manual for future reference.

How to Use This Manual

Please read this manual and all relevant documents thoroughly before carrying out any operations on the battery. Ensure that the documents are stored securely and remain accessible at all times. The content may be periodically revised or updated to reflect product improvements.

1. Safety Introductions



1.1 Warning

1.1.1 Before Connecting

- After unpacking, inspect the product and packing list carefully. If any damage is found or parts are missing, please reach out to your local retailer for assistance.
- Before starting the installation, disconnect the grid power and confirm that the battery is turned off.
- Ensure proper wiring by connecting the positive and negative cables correctly and avoiding any short circuits with external devices.
- Directly connecting the battery to AC power is strictly prohibited.
- The battery system must be properly grounded, with a grounding resistance of less than 1Ω .
- Verify that the electrical parameters of the battery system are fully compatible with the connected equipment.

1.1.2 In Using

- If the battery system needs to be moved or serviced, ensure that the power is disconnected and the battery is fully powered down.
- Connecting the battery with a different type of battery is strictly prohibited.
- Do not operate the batteries with a faulty or incompatible inverter.
- Disassembling the battery is not allowed.
- In the event of a fire, only dry powder fire extinguishers should be used; liquid fire extinguishers must not be used.
- Please refrain from opening, repairing, or disassembling the battery unless performed by Felicitysolar staff or personnel authorized by Felicitysolar. Any consequences or responsibilities arising from improper operation or violations of design, manufacturing, or equipment safety standards will not be assumed by us.
- Keep the battery away from water and fire.

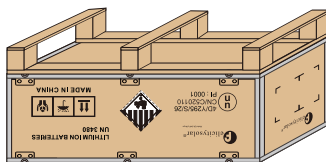
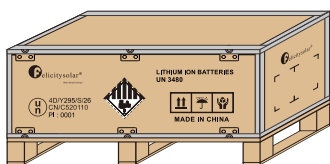


1.2 Caution

- Our products undergo rigorous inspection before shipment. If you notice any unusual signs, such as the device casing bulging, please contact us promptly.
- The product must be properly grounded prior to use to ensure safety.
- To ensure correct usage, verify that the parameters of the connected devices are compatible and matched. Avoid mixing batteries from different manufacturers, types, or models, as well as using old and new batteries together.
- The ambient environment and storage methods can affect the product's lifespan. Please adhere to the operating environment guidelines to ensure the device functions optimally.
- For long-term storage, recharge the battery every six months, ensuring the charge exceeds 80% of its rated capacity.
- Recharge the battery within 18 hours after it has fully discharged or when over-discharge protection mode is triggered.
- The formula for calculating theoretical standby time is: $T = C/I$ (where T represents standby time, C is the battery capacity, and I is the total current of all loads).

2. Transportation

The battery module can only be transported in an upright position.



- Smoking is prohibited in the vehicle during transportation or in the vicinity during loading and unloading



- The dangerous goods transport vehicles shall meet relevant regulations concerning road transportation and shall be equipped with two tested CO2 fire extinguishers.



- If possible, do not remove the transport packaging before arrival at the installation site. Before removing the transport protector, check if the transport packaging is damaged.



- Improper transport of battery modules may cause injury. It could cause injury if it falls or slips. Use only suitable transport and lifting equipment to ensure safe transport.



- Wear safety shoes to avoid the danger of injury. When transporting the battery module, their parts may be crushed due to their heavy weight. Therefore, all persons involved in transportation must wear safety shoes with toe caps. Please observe the safety regulations for transportation at the end customer's site, especially during loading and unloading.



- During transportation and installation of unpacked battery storage cabinets, the risk of injury increases, especially on sharp metal panels. Therefore, all personnel involved in transportation and installation must wear protective gloves.



- Improper vehicle transportation can cause injury. Improper transportation or improper transportation locks may cause the load to slip or overturn, resulting in injury.



- The transportation of Li-Ion batteries is classified under hazard category UN3480, Class 9. For transport via sea, air, or land, the batteries are categorized under 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. Please refer to the relevant transportation documentation for details.

3. Introductions

3.1 Symbol Definition

	Danger! Serious physical injury or even death may occur if not follow the relative requirements.		Install the product out of reach of children
	Caution, risk of electric shock.		Do not place nor install near flammable or explosive materials
	In case of electrolyte leakage, keep leaked electrolyte away from eyes or skin.		Disconnect the equipment before carrying out maintenance or repair
	Do not connect the Pack's positive(+) and negative(-)terminal reversely.		EU WEEE mark: Product should not be disposed as household waste.
	Observe precautions for handling electrostatic discharge sensitive devices.		Instruction manual: Read the instruction manual before starting installation and operation.
	Caution, risk of electric shock, energy storage timed discharge		CE mark: The inverter complies with the CE directive.
	Recyclable.	NOTE	Note:The procedures taken for ensuring proper operation.
	Do not use the Pack beyond specified conditions		Earth terminal: The inverter must be reliably grounded.
	Take care! This Pack is heavy enough to cause serious injury.		

3.2 Brief Introduction

FLA48628TG2 is equipped with a lithium iron phosphate battery designed for household use. Developed based on customer needs and market demands, this advanced battery storage solution provides high-quality, reliable power for various devices. The product features a long lifespan, suitability for high-temperature environments, and a compact design that requires minimal installation space.

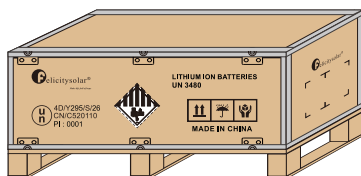
FLA48628TG2 features a battery management system independently developed by our team. When connected to a grid or photovoltaic system as the power source, the product can store energy by charging the battery. In the event of a power outage from the grid or photovoltaic system, the product independently supplies electricity to household loads. Additionally, multiple units can be connected in parallel to form a high-capacity, multi-module system, meeting long-term energy storage requirements.

3.3 Features

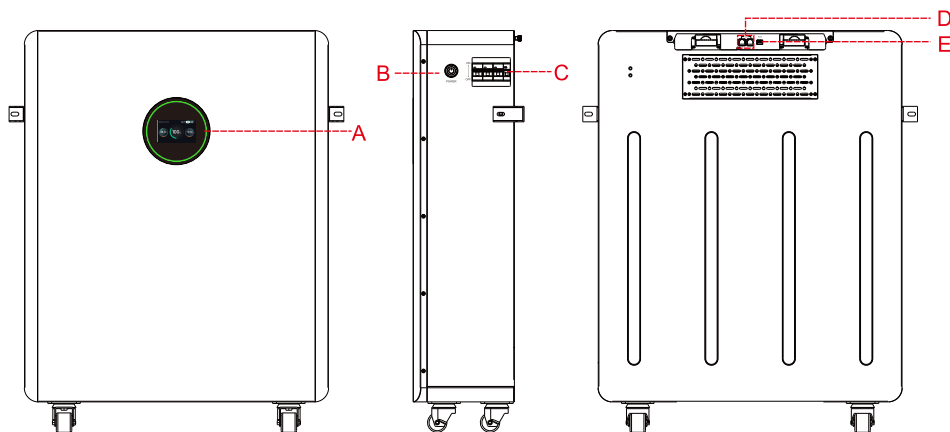
- LiFePO4: Higher safe performance and longer cycle life.
- Multiple Protection: Built-in smart BMS, Breaker and Fuse.
- Flexible Installation: Floor-Mounted.
- Wide Compatibility: Compatible with leading inverter brands.
- High Scalability: Capacity up to 480kWh .
- Built-in WIFI/Bluetooth: Remote monitoring of battery pack data.
- Equipped with an aerosol fire extinguishing system.

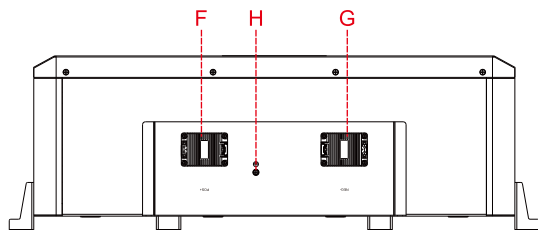
3.4 Product Overview

3.4.1 External Packaging



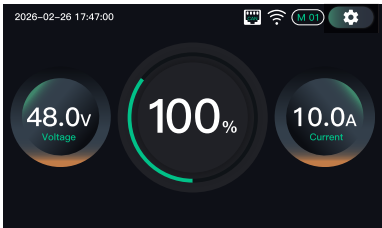
3.4.2 Product Appearance Display



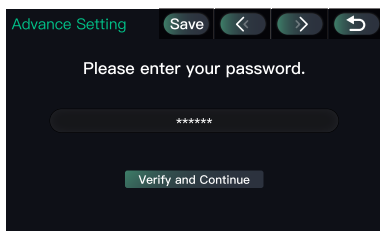


Code	Name	Definition
A	LCD Display	LCD Display
B	Power/Running Status	1. Indicate the power on/off function: press once to turn on, press and hold for 3 seconds to turn off; 2. ● A green light indicates normal status, ● while a red light indicates fault status.
C	ON/OFF Switch	Circuit protection for overvoltage
D	COM	When the system operates in parallel: This CAN/RS485 communication socket connects to the COM interface using a communication cable.
E	ADS	Set each battery's ID through DIP switches
F	POS+	The DC output positive pole of the battery, connected to the inverter's positive pole via a cable.
G	NEG-	The DC output negative pole of the battery, connected to the inverter's negative pole via a cable.
H	PE	Shell ground connection

3.5 LCD Display Icons

	
Icon	Function Description
WIFI	
	Indicates WIFI status
Bluetooth	
	Indicates Bluetooth status
Master/Slave	
	M stands for master, S stands for slave, and the number indicates the address. For example, "M01" represents the master with address 1
Communication	
	Indicates CAN/RS485 Communication status. When both CAN and RS-485 are present, the icon displays CAN.

3.5.1 Advance Setting



Enter the password 123456 and press Verify and continue to enter the Advance Setting. The operation shall be performed by a professional.

Advance Setting1

Save > <

Charge Limit

Voltage

57.6V

Current

100A

SOC

100%

Discharge Limit

Voltage

48V

Current

100A

SOC

0%

RS485

Felicity

CAN

Pylon

Fullcharge

☐

Force

☐

Repeat

2Days

Advance Setting 2

Save < > ↺

Average SOC Display

☒

Battery Compatible

☐

Alarm Report

☒

Pre-check Parallel

☒

Global Balance

☒

Setting Lock

☒

Setting	Description
Force Full Charge	When enabled, the BMS will upload a Force Charge flag signal when it detects that a full charge is required, notifying the system to perform a forced full charge.
Average SOC Display	When enabled, each battery pack in a parallel system displays the average SOC of the entire system instead of its own SOC.
Pre-check Parallel	When enabled, the battery pack will check whether its voltage meets the system paralleling conditions before enabling output on the next power-on.
Alarm Report	When enabled, the battery pack will actively report fault alarms to the inverter when a fault is detected.
Global Balance	When enabled, the system performs global balancing on all cells within the battery pack to keep cell voltages consistent.
Battery Compatible	When enabled, the system automatically adjusts the current limit when different battery models are connected in parallel to match each battery's characteristics.

3.5.2 Fault Code Table

Code	Fault Information	Trouble Shooting
C01	Battery overvoltage	Restart the unit, If the error happens again, please return to repair center.
C02	Battery undervoltage	Restart the unit, If the error happens again, please return to repair center.
C03	Cell overvoltage	Restart the unit, If the error happens again, please return to repair center.
C04	Cell undervoltage	Restart the unit, If the error happens again, please return to repair center.
C05	Charge overcurrent	Restart the unit, If the error happens again, please return to repair center.
C06	Discharge overcurrent	Restart the unit, If the error happens again, please return to repair center.
C07	MOS overtemperature	1 .The inner temperature is over the limitation. 2.Check whether the ambient temperature is too high.
C08	MOS undertemperature	1 .The internal temperature is lower than the limit range. 2.Check whether the ambient temperature is too low.
C09	Cell ovtemperature	Restart the unit, If the error happens again, please return to repair center.
C10	Cell undertemperature	Restart the unit, If the error happens again, please return to repair center.
C11	AFE communication lost	Restart the unit, If the error happens again, please return to repair center.
C12	MOS short circuit	Restart the unit, If the error happens again, please return to repair center.
C13	Parallel failed	1.Please check if single unit is installed to parallel system. 2. If this error happens during parallel installation, please check wires connectiothn. If they are connected correctly, please finish parallel installation first, and then restart the unit. 3. If the problem remains, please contact your installer.
C14	Output loss	1. Please check whether the circuit breaker is closed; 2. Please check whether the fuse is normal; 3. Restart the unit, If the error happens again, please return to repair center.
C15	Temperature Difference Fault	Restart the unit, If the error happens again, please return to repair center.

3.6 Battery Management System(BMS)

Voltage Protection

Low Voltage Protection in Discharging:

When the voltage of any battery cell or the total voltage falls below the rated protection value during discharging, over-discharging protection is activated, and the battery system stops supplying power externally. Once the voltage of each cell returns to the rated range, the protection is released.

Over Voltage Protection in Charging:

During charging stage, the system will stop charging when the total voltage of the battery pack is higher than rated value or the voltage of any single cell reaches the protection value. When total voltage or all cell back to rated range, the protection is over.

Current Protection

Over Current Protection in Charging:

When the charging current reaches the trigger value and lasts for 15 seconds, charging overcurrent protection is activated, entering fault mode. The battery disables both charging input and discharging output, and displays fault code C05 on the screen. The fault is automatically cleared after 1 minute. After 10 occurrences, the fault can no longer clear automatically, requiring a manual battery restart.

Over Current Protection in Discharging:

When the discharging current reaches the trigger value and lasts for 15 seconds, discharging overcurrent protection is activated, entering fault mode. The battery disables both charging input and discharging output, and displays fault code C06 on the screen. The fault is automatically cleared after 1 minute. After 10 occurrences, the fault can no longer clear automatically, requiring a manual battery restart.

3.7 System Connection Diagram

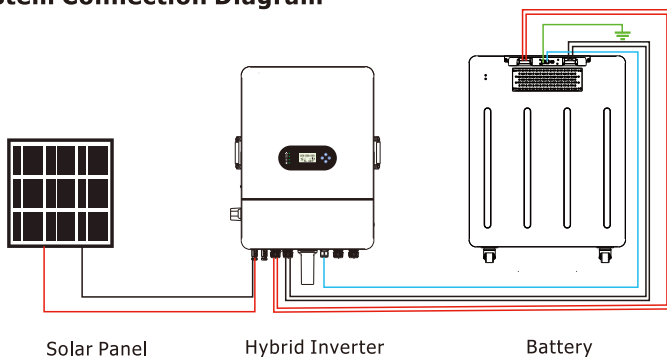


Figure 3-1 Single Battery System Connection Diagram

When paralleling multiple battery packs, please use a combiner box or a copper busbar.

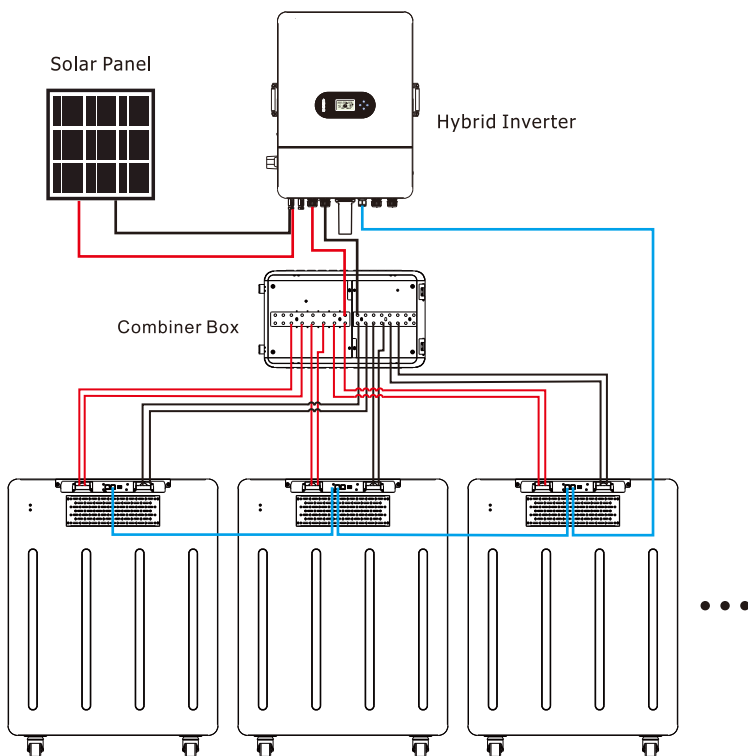


Figure 3-2 Multiple Battery Parallel System Connection Diagram

4. Installation and Configuration

4.1 Preparations for Installation

4.1.1 Safety Requirement

This system must only be installed by personnel trained in power supply systems and possessing adequate knowledge of such systems.

The safety guidelines outlined below, along with applicable local safety standards, must be strictly adhered to during installation.

- All circuits interfacing with this power system and carrying external voltages below 48V must comply with SELV requirements as specified in the IEC60950 standard.
- If working within the power system cabinet, ensure the system is completely powered down, and all battery devices are switched off.
- The distribution cables should be arranged systematically and equipped with protective measures to prevent accidental contact while operating power equipment.

4.1.2 Installation Environment

- Working temperature: $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$
- Charging temperature range: $0^{\circ}\text{C} \sim +55^{\circ}\text{C}$
- Discharging temperature range: $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$
- Storage temperature: $0^{\circ}\text{C} \sim +35^{\circ}\text{C}$
- Elevation: $\leq 2000\text{m}$

Operating environment: Suitable for indoor installation at locations shielded from direct sunlight, wind, conductive dust, and corrosive gases.

Ensure the following conditions are met:

- The installation site should be distant from the sea to prevent exposure to saltwater and high humidity.
- The ground at the installation location must be flat and level.
- The site should be free of flammable or explosive materials.
- Optimal ambient temperature: 20°C to 30°C .
- Avoid areas with excessive dust or clutter.

4.1.3 Tools



Screw Driver



Crimping Modular



Safety Shoes



Multimeter



Safety Gloves



Safety Goggles



Plier



Ribbon



Electric drill

4.2 Unpacking Inspection

- Upon arrival at the installation site, loading and unloading should strictly follow the established rules and procedures to prevent exposure to sunlight and rain.
- Before unpacking, verify the total number of packages against the shipping list attached to each package, and inspect the outer cases for any signs of damage. After unpacking, carefully check for loose or damaged wiring and contacts, cracks, deformations, leaks, or any other form of damage. If any damage is detected, the battery must be replaced immediately. Do not attempt to charge or use a damaged battery, and avoid contact with any liquid from a ruptured battery.
- During unpacking, handle all components with care to protect the surface coating from damage.

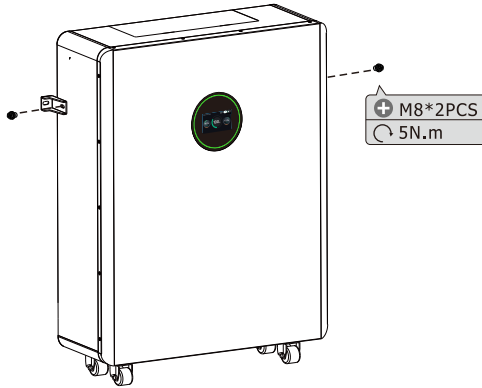
No.	Description	Quantity	Picture
1	User manual	1	
2	Warranty card	1	
3	Unloading Guide	1	
4	Power Cable: 50mm ² , used for connecting to external PCS	4	
5	Communication Cable: Gray, used for RS485 communication with Felicity inverters (Model: IVCM, IVEM, IVPS/M IVGM)	1	
6	Communication Cable: Blue, Used for communication with inverters from other brands.	1	
7	Communication Cable: Black, used for parallel communication between battery packs	1	
8	Signal Terminal: Used for creating custom communication cables	2	
9	M8x30 Expansion Screw	2	

4.3 Installation Procedure

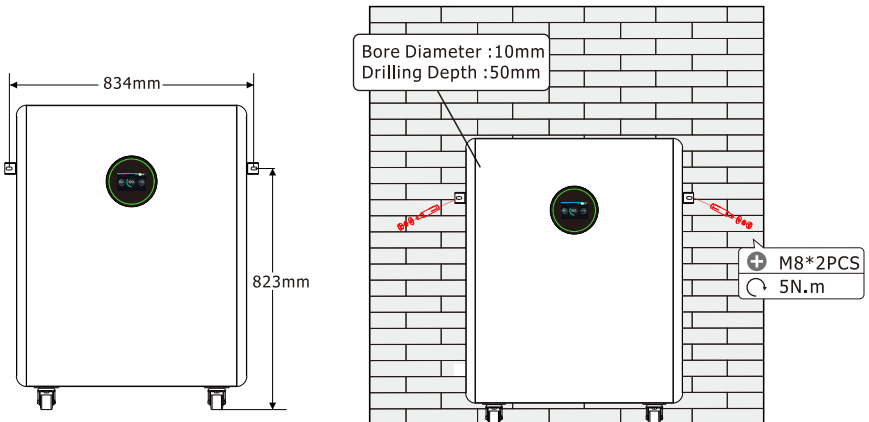
4.3.1 Mounting the Battery

(a) Wall-Mounted method

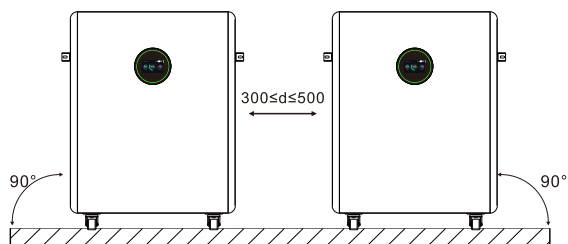
Step 1: First, fix the two wall locking pieces to the machine with screws.



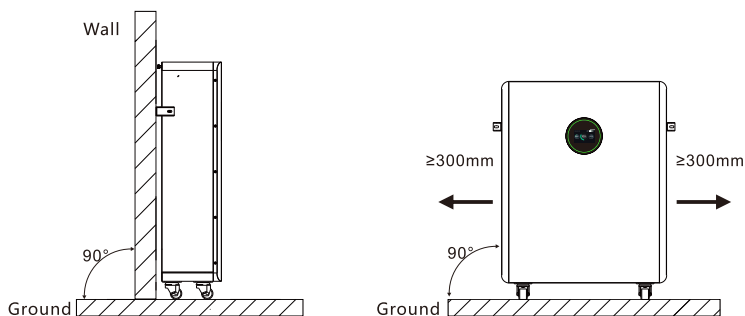
Step 2: Use sheet metal lock wall components to fix the product on the wall.



(b) Floor-Mounted method



Ground(Two rows installtion)



4.3.2 Batteries in parallel

The FLA48628TG2 series battery support to be connected in parallel for expansion. If you need one more battery bank to work in parallel mode, connect the battery as shown in Figure 1.

* It is recommended to use battery pack combiner box(BTCB0606/BTCB0303) or confluence copper bar confluence.

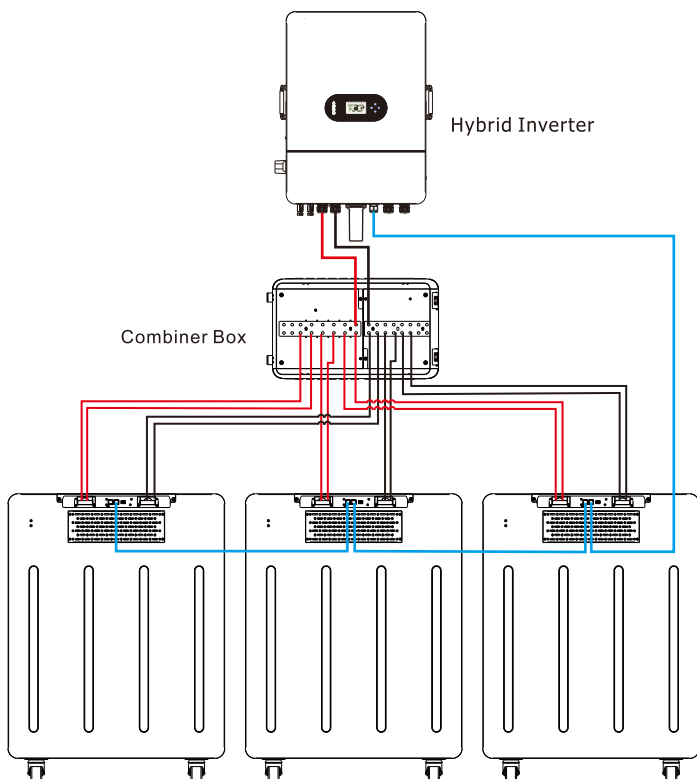


Figure 4-1 The parallel connection of three battery packs

4.3.3 Series connection is not allowed

- 1) The batteries can be connected in parallel. Series connection is not allowed. Use in upright position only.
- 2) The batteries are not allowed to be connected with PWM controller for charging. Special Attention: Due to the built-in protection board of the lithium battery pack with over-discharge protection function, it is strongly recommended to stop using the load when the battery pack is over-discharged. The battery pack cannot be repeatedly activated for discharge. Or the battery may be failed to be activated by the AC or PV activation cable. It requires a special charging activation method, so cannot be charged. Therefore, when the battery pack is low power, please charge the battery as soon as possible when main power or solar energy is available.

5. Operation

5.1 Description of Communication Port

BATTERY-Felicitysolar

Picture	Pin	Color	Definition
	1	ORG-WH	CAN-GND
	2	ORG	+5V-BUS
	3	GN-WH	CANL-PCS
	4	BU	CANH-PCS
	5	BU-WH	RS485-B
	6	GN	RS485-A
	7	BN-WH	CANL
	8	BN	CANH



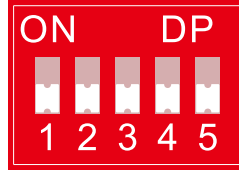
INVERTER

Pin	Color	Definition	Picture
1	ORG-WH	/	
2	ORG	/	
3	GN-WH	/	
4	BU	/	
5	BU-WH	RS485-B	
6	GN	RS485-A	
7	BN-WH	/	
8	BN	/	

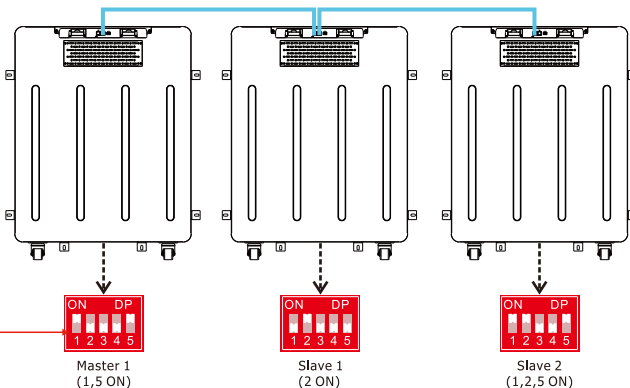
5.2 Parallel DIP Switch

5.2.1 DIP Code Table

No. of BAT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1PCS	1,5 ON														
2PCS	1,5 ON	2,5 ON													
3PCS	1,5 ON	2 ON	1,2,5 ON												
4PCS	1,5 ON	2 ON	1,2 ON	3,5 ON											
5PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3,5 ON										
6PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3,5 ON									
7PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3,5 ON								
8PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4,5 ON							
9PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4 ON	1,4,5 ON						
10PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4 ON	1,4 ON	2,4,5 ON					
11PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4 ON	1,4 ON	2,4 ON	1,2,4,5 ON				
12PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4 ON	1,4 ON	2,4 ON	1,2,4 ON	3,4,5 ON			
13PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4 ON	1,4 ON	2,4 ON	1,2,4 ON	3,4 ON	1,3,4,5 ON		
14PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4 ON	1,4 ON	2,4 ON	1,2,4 ON	3,4 ON	1,3,4 ON	2,3,4,5 ON	
15PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4 ON	1,4 ON	2,4 ON	1,2,4 ON	3,4 ON	1,3,4 ON	2,3,4 ON	1,2,3,4,5 ON



5.2.2 DIP Switch Setting Example



Example of three batteries in parallel

5.3 Switch On/Off

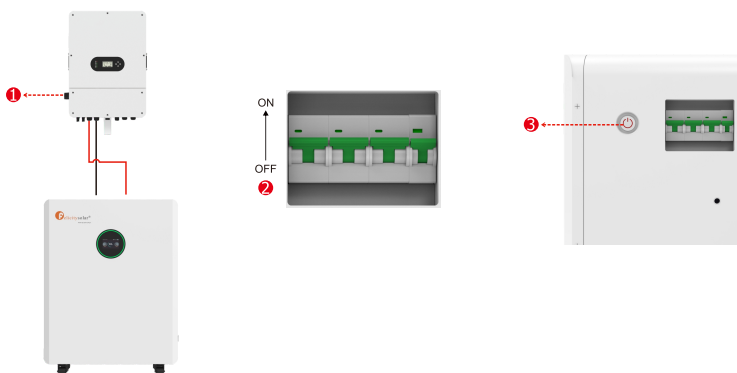
Power on steps:

Step 1: Turn on the inverter **1**;

Step 2: Turn on the battery breaker **2** ("OFF" to the "ON");

Step 3: Press the battery switch button **3**.

If the batteries are connected in parallel, turning on any one of them will turn on all the others.



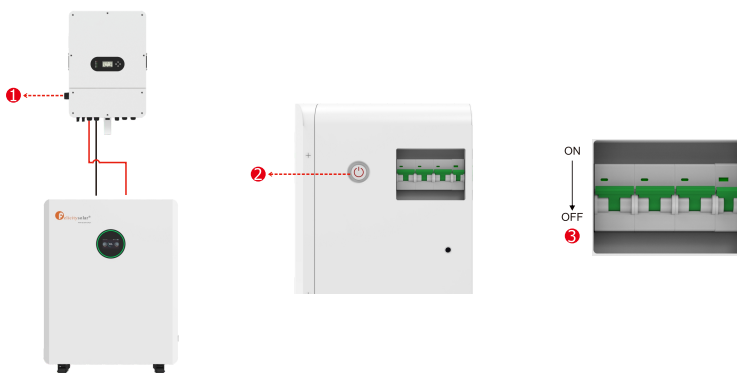
Power down steps:

Step 1: Turn off the inverter **1**;

Step 2: Press and hold the battery switch button for 3 seconds **2**;

Step 3: Disconnect the breaker of the battery **3** ("ON" to "OFF").

If the batteries are connected in parallel, turning off any one of them will turn off all the others.



6. Smart Energy Management & Quick Network Setup Guide

For a better product experience, we strongly recommend installing and using the APP to connect and set up your device network. Through the APP, you can monitor your system's real-time operating data, monitor real-time generation, daily energy output, revenue, and carbon reduction. Any equipment abnormalities will also trigger instant alerts, giving you a clear and comprehensive view of your plant's status. Once connected, you can also enjoy convenient services such as remote operation & maintenance and one-click repair requests. This enables intelligent management and maximizes revenue and system lifespan.

6.1 Download the APP

Please use your mobile phone to scan the QR code below to download and install the "Fsolar" APP.



Fsolar APP

6.2 APP User Guide

Scan the QR code to view the full tutorial, or visit the URL below on your computer browser to quickly learn the following functions:

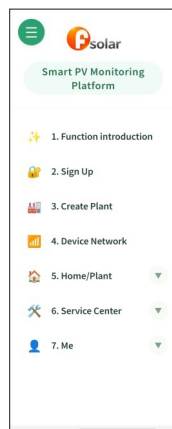
- ①Sign Up; ②Create Plant; ③Device Network;
- ④Home/Plant; ⑤Service Center.



Web access:

https://shine.felicitysolar.com/app_operation_manualen.html

After entering the page, use the menu on the left to quickly navigate to the SOP content you need.



6.3 Web Access

You can also access the web management platform via a computer browser to experience large-screen monitoring and more management features.

Web access: <https://shine.felicitysolar.com>

7. Maintenance and Troubleshooting

7.1 Storage

- Do not expose battery to open flame.
- Do not place the product under direct sunlight.
- Do not place the product near flammable materials. It may lead to fire or explosion in case of accident.
- Store in a cool and dry place with ample ventilation.
- Store the product on a flat surface.
- Store the product out of reach of children and animals.
- Do not damage the unit by dropping, deforming, impacting, cutting or penetrating with a sharp object.
- It may cause leakage of electrolyte or fire.
- Do not touch any liquid spilled from the product. There is a risk of electric shock or damage to skin.
- Always handle the battery wearing the insulated gloves.
- Do not step on the product or place any foreign objects on it. This can result in damage
- Do not charge or discharge damaged battery.

7.2 Maintenance Troubleshooting

7.2.1 Analysis and Treatment of Common Faults

Item	Fault phenomenon	Reason analysis	Solution
1	Unable to communicate with the inverter	The wrong communication cable was used, or the battery DIP switch settings are incorrect.	Before connecting the battery to the inverter, set the battery DIP switches correctly according to the DIP switch table. After setting the DIP switches, restart the battery to activate the DIP, then use the correct communication cable to connect the battery and the inverter.
2	Battery does not fully charge	The charging voltage set on the inverter is too low	Set the charging voltage on the inverter according to the recommended value in the battery manual
3	Inaccurate SOC display	The battery's SOC has not been calibrated	The SOC will automatically calibrate after one full charge cycle. First, discharge the battery to 0%, then charge it to 100%.
4	High current charging & discharging causes output cutoff	The charging & discharging current set on the inverter is too high	Set the charging & discharging current on the inverter according to the recommended values in the battery manual
5	Battery output is interrupted due to high current during charging and discharging	The charging and discharging current settings on the inverter are too high	Set the charging and discharging current on the inverter according to the recommendations in the battery manual
6	When multiple batteries are connected in parallel, battery data on the inverter is missing or incorrect.	The parallel connection of the batteries is not set up correctly	1. Check the communication cables between the batteries 2. Check whether the battery DIP switches are set in the correct sequence
7	The battery indicates it is charging, but the SOC does not change.	The ambient temperature is too low, preventing the battery from charging.	Charge the battery in an indoor environment that meets the operating temperature range specified in the manual

8. Battery recovery

Aluminum, copper, lithium, iron, and other metal materials are extracted from discarded LiFePO4 batteries using an advanced hydrometallurgical process, achieving a comprehensive recovery efficiency of up to 80%. The detailed process steps are outlined as follows.

8.1 Recovery process and steps of cathode materials

The aluminum foil used as collector is an amphoteric metal. Initially, it is dissolved in a NaOH alkaline solution, allowing aluminum to enter the solution as NaAlO_2 . After filtration, the filtrate is neutralized with a sulfuric acid solution, resulting in the precipitation of $\text{Al}(\text{OH})_3$. When the pH exceeds 9.0, the majority of the aluminum precipitates, and the resulting $\text{Al}(\text{OH})_3$ can achieve chemical-grade purity upon analysis.

The filter residue is treated with sulfuric acid and hydrogen peroxide, allowing lithium iron phosphate to dissolve into the solution as $\text{Fe}_2(\text{SO}_4)_3$ and Li_2SO_4 , while separating it from carbon black and the carbon coating on lithium iron phosphate. After filtration, the pH of the filtrate is adjusted using NaOH and ammonia solution. Iron is first precipitated as $\text{Fe}(\text{OH})_3$, followed by the precipitation of the remaining solution using a saturated Na_2CO_3 solution at 90°C .

8.2 Recovery of anode materials

The recovery process for anode materials is relatively straightforward. After separating the anode plates, the copper purity exceeds 99%, making it suitable for further refining into electrolytic copper.

8.3 Recovery of diaphragm

The diaphragm material is primarily non-hazardous and holds no recycling value.

8.4 List of recycling equipment

Automatic dismantling machine, pulverizes, wet gold pool, etc.

Appendix I

Model	FLA48628TG2
Nominal Energy	32kWh
Nominal Capacity	628Ah
Battery Type	LiFePO4
Nominal Voltage	51.2V
Operating Voltage	44.8-57.6V
Recommend Charge/Discharge Current	Charge 175A Discharge 175A
Max. Charge/Discharge Current[1]	Charge 350A Discharge 350A
Peak Charge/Discharge Current	400A @ 2mins
Max. Charge/Discharge Power	Charge 18kW Discharge 18kW
Depth of Discharge(DOD)	95%
Scalability	Up to 15 units in parallel
Communication	CAN2.0, RS485, WIFI, Bluetooth
Protection Level	IP21
Cycle Life	≥8000 @ 25°C
Operating Temperature	Charge 0~55°C Discharge -20~55 °C
Storage Temperature	0~35 °C
Display	LCD+LED
Installation	Floor-Mounted
Protection	BMS, Fuse, Breaker, MX+OF
Warranty[2]	7 Years
Energy Throughput[2]	70 MWh ^[3]
Net Weight	243kg±3%
Gross Weight	283kg±3%
Product Dimension	797×263×1040mm
Package Dimension	1130×917×466,5mm
[1] The current is affected by temperature and SOC.	
[2] Condition apply, refer to Felicitysolar Warranty Letter.	
[3] 25°C±2°C/77°F±3.6°F , 70%EOL	

*In the absence of communication, please follow the recommended settings in the table below.

Setting	FLA48628TG2
Max. Charging Voltage	57.6V
Floating Charging Voltage	57.6V
Max. Charging Current	350A*N
Cut-off Voltage	44.8V

Notes: "N" means the number of battery packs connected in parallel.

