

Quick Installation Guide

LiFePO4 Battery System for Households



358-030011-02

Disclaimer

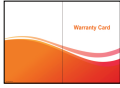
- Please read the user's manual carefully before performing all operations; this installation guide does not supersede the use of the product's user's manual;
- Product information is subject to change without notice. This manual is frequently updated, please contact your salesperson for the latest version.
- After unpacking, please check the product for damages and missing parts.
- Do not open the battery to repair or disassemble. Only Felicitysolar is allowed to carry out any such repairs. Only qualified personnel can install this device with battery.
- In case of fire, use only dry powder fire extinguisher. Liquid extinguishers should not be used.
- Before using the battery, please read the instructions and warning signs of the battery and corresponding sections in the instruction manual. Improper reassembly may result in electric shock or fire.
- To reduce risk of electric shock, disconnect all wires before attempting any maintenance or cleaning. Turning off the unit will not reduce this risk.
- Never charge a frozen battery.
- Be very cautious when working with metal tools on or around batteries. Dropping a tool may cause a spark or short circuit in batteries or other electrical parts, even cause an explosion.
- Install the battery away from children or pets.
- Do not use battery in high static environment where the protection device might be damaged.
- Battery should be installed indoor and kept away from water, high temperature mechanical force and flames.
- Do not install the battery in any environment of temperature below 0°C or over 55°C, and humidity over 80%.

Installation Video

You can watch the installation video by scanning the QR code to the right



Packing List

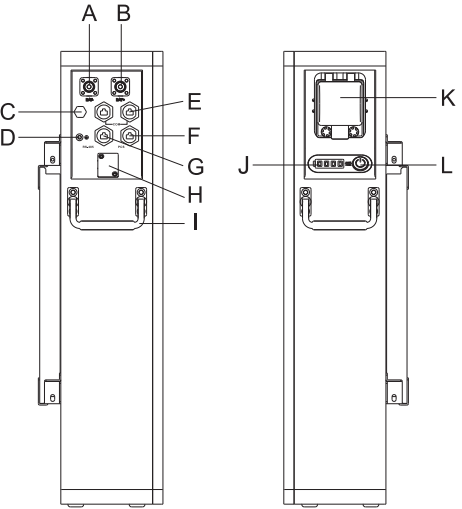
1  User manual×1	2  Quick installation guide×1	3  Warranty card×1
4  Lock wall components×1	5  Terminal×2	6  Power Cable×2
7  Communication Cable1 ×1	8  Communication Cable2 ×1	9  Communication Cable3×1
10  Communication Cable4 ×1	11  M4×12 Screw×2	12  Plastic Expansion Screw×5
	13  Signal Terminal ×2	

LPBA48100-OL			
NO.	Name	Description	Quantity
1	User manual	User manual	1
2	Warranty card	Warranty card	1
3	Quick installation guide	Quick installation guide	1
4	Lock wall components	Used for product transportation and wall fixation	1
5	Terminal	When the wiring length is insufficient for actual use, customers need to prepare the corresponding power cables and crimp this terminal for use.	2
6	Power Cable	25mm², allows for charging and discharging up to 125A, used for connecting to external PCS	2
7	Communication Cable 1	Gray, used for RS485 communication with Felicity inverters	1
8	Communication Cable 2	Blue 1.Used for CAN communication with inverters from other brands; 2.Used for CAN communication with Felicity inverters.	1
9	Communication Cable 3	Yellow, without an RJ45 connector. Universal communication cable with one end as RJ45 and the other end leading to eight cores.	1
10	Communication Cable 4	Black,used for parallel communication between battery packs	1
11	M4X12 Screw	Used for installing the product's handle.	2
12	Plastic Expansion Screw	Used for securing the product's wall mount.	5
13	Signal Terminal	Used for creating custom communication cables.	2

Explanation of the Symbols

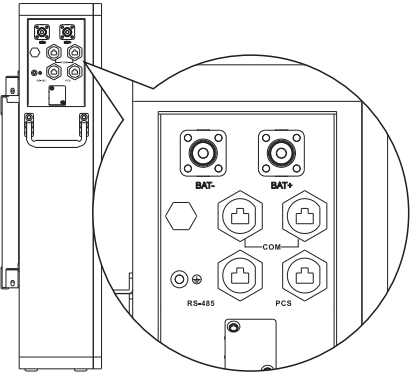
	Danger! Serious physical injury or even death may occur if not follow the relative requirements.		Install the product out of reach of children
	Caution, risk of electric shock.		Do not place or install near flammable or explosive materials
	In case of electrolyte leakage, keep leaked electrolyte away 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.		

Product Overview



Code	Name
A	BAT-
B	BAT+
C	Breather Valve
D	PE
E	COM
F	PCS
G	RS485
H	ADS
I	Handle
J	LED Display
K	ON/OFF Switch
L	Power/Runing Status

Description For Communication Port



COM (Parallel communication interface)		
Pin	Definitions	Function Declaration
1	GND	Power/signal ground
2	VCC	
3	CANL-PCS	CANL-PCS
4	CANH-PCS	CANH-PCS
5	485B	RS485-B
6	485A	RS485-A
7	CANL	CANL
8	CANH	CANH

PCS		
Pin	Definitions	Function Declaration
1	GND	Power/signal ground
2	NC	
3	NC	
4	NC	
5	485B	RS485-B
6	485A	RS485-A
7	CANL-PCS	CANL-PCS
8	CANH-PCS	CANH-PCS

RS-485		
Pin	Definitions	Function Declaration
1	GND	
2	NC	
3	NC	
4	NC	
5	485B	RS485-B
6	485A	RS485-A
7	NC	
8	NC	

Installation Environment

Max. +50°C

Min. -10°C

RH. +5%~+95%

IP65

SOC LED Indication

100%	75%	50%	25%	Flashing SOC < 10%

Installation Procedure

01

02

03

04

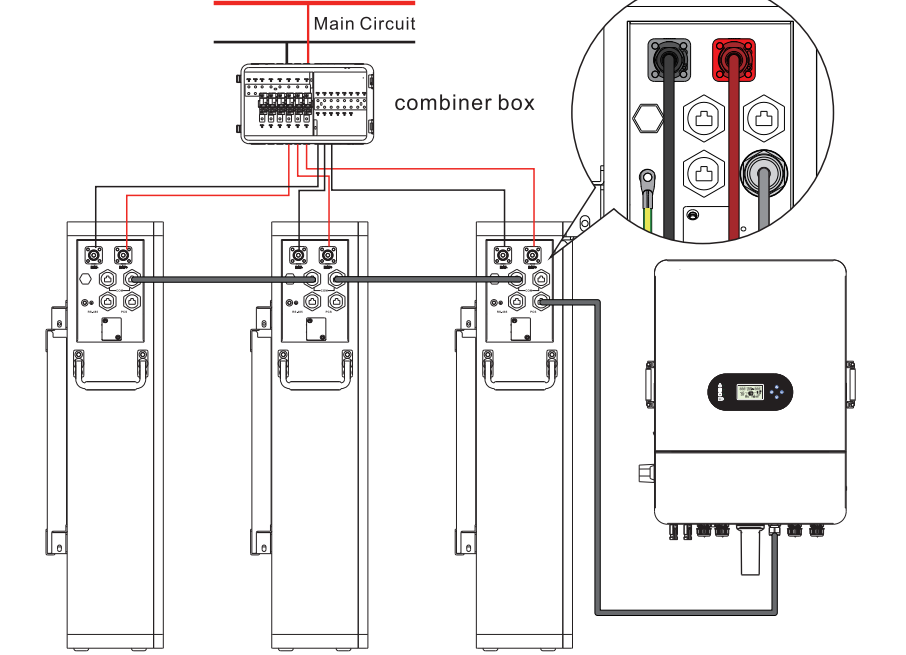
Wiring Procedure

01

02

03

Connection For Parallel Mode



Parallel DIP Switch

Adjust each battery pack dialer from left to right according to the diagram below (from top to bottom)

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

ON DP

1 2 3 4 5

User Manual

User Manual in the OR code or at <https://www.felicitysolar.com/>

