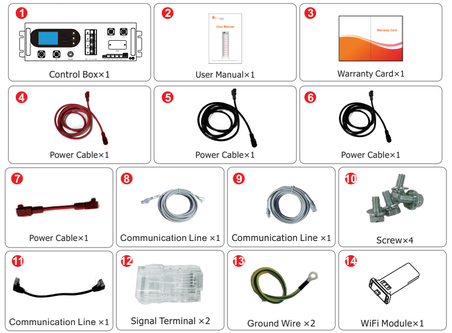
Disclaimer

- 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%.

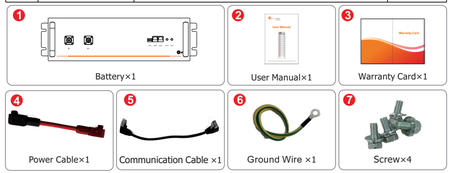
Installation Video

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

Packing List

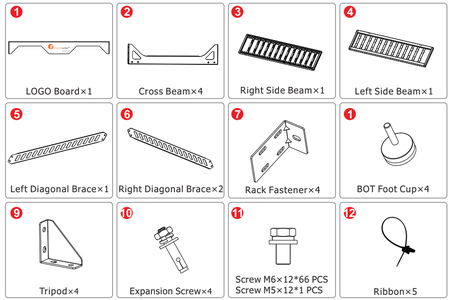


FLH48100UCG1			
NO.	Name	Description	Quantity
1	Control Box	High-voltage control box 720V/100A	1
2	User Manual	User manual	1
3	Warranty Card	Warranty card	1
4	Power Cable	5 meters, 4AWG, allows for charging and discharging up to 110A, used to connect to external PCS+ (red)	1
5	Power Cable	5 meters, 4AWG, allows forcharging and discharging up to 110A, used to connect to external PCS- (black)	1
6	Power Cable	2 meters, 4AWG, used for serial connection from master control to slave control (black)	1
7	Power Cable	35 millimeter, 4AWG, used for serial connection from master control to slave control (red)	1
8	Communication Line	The communication between the battery pack and the PCS	1
9	Communication Line	Communication between the battery pack and the Felicity inverter	1
10	Screw	Used for installing control box	4
11	Communication Line	Used for communication connection between master and slave control	1
12	Signal Terminal	Used for creating custom communication cables.	2
13	Ground Wire	The 145mm ground cable is used to connect battery pack modules ;The 2m ground cable is used to connect the inverter to the battery ground	2
14	WiFi Module	For installing the WIFI module	1



FLH48100UMG1			
NO.	Name	Description	Quantity
1	Battery	5.12kWh battery module	1
2	User Manual	User manual	1
3	Warranty Card	Warranty card	1

4	Power Cable	Used for series connections between battery pack modules.	1
5	Communication Cable	Used for communication connections between battery pack modules.	1
6	Ground Wire	Used for grounding connections between battery pack modules.	1
7	Screw	Used for installing battery pack modules.	4



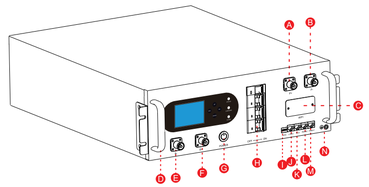
FLH48100R13G1		
NO.	Description	Quantity
1	LOGO Board	1
2	Cross Beam	4
3	Right Side Beam	1
4	Left Side Beam	1
5	Left Diagonal Brace	1
6	Right Diagonal Brace	2
7	Rack Fastener	4
8	BOT Foot Cup	4
9	Tripod	4
10	Expansion Screw	4
11	Screw M6×12* 66 PCS; Screw M5×12* 1 PCS	/
12	Ribbon: Used to fix the power cable	5

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 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.		Societe Generale de Surveillance S.A.
	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	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.		EU WEEE mark: Product should not be disposed as household waste.

Product Overview

Electrical Interface Description of Control cabinet



Code	Name	Code	Name
A	PCS +	H	Breaker
B	PCS -	I	ADS
C	WiFi Communication	J	LINK0
D	Handle	K	PCS Communication
E	BAT-	L	Parallel Interface 0
F	BAT+	M	Parallel Interface 1
G	Power Switch	N	Earth Wire

Felicitysolar®
Make life full of hope

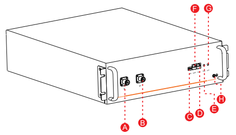
Quick Installation Guide

LiFePO4 Battery System for Households



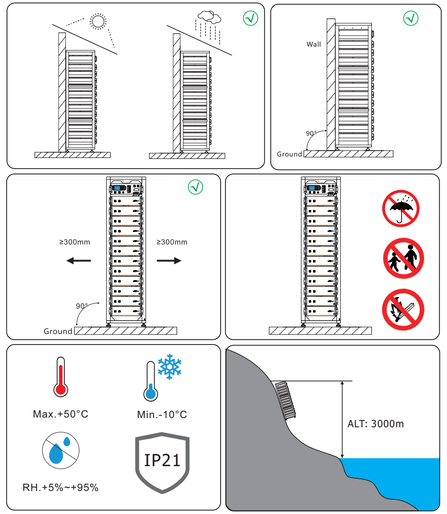
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Battery box introduction



Code	Name
A	BAT-
B	BAT+
C	ADS
D	LINK1
E	Status LED
F	LINK0
G	Alarm LED
H	Earth Wire

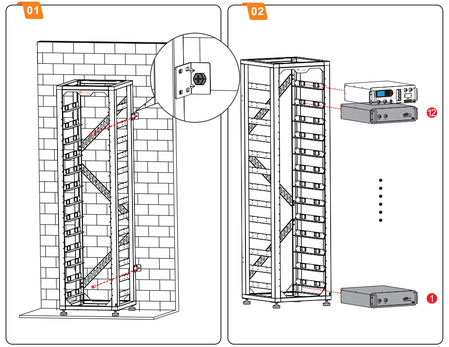
Installation Environment

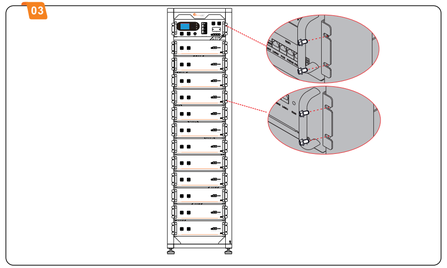


LCD Display Icons

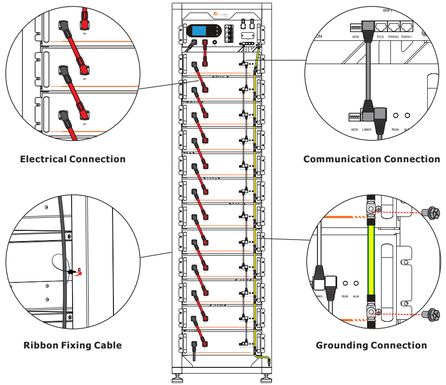
Object	Name	Description
LCD	LCD touch screen	Display the information of the battery.
STATUS	Status LED	Indicates the operating status of the battery, which is always on when running normally.
CHARGING	Charging LED	Indicates the charging status of the battery, flashing indicates charging.
ALARM	Alarm LED	Indicates the fault status of the battery, which lights up when the fault occurs.
ESC	Function Button	Esc: Return from current interface or function.
UP		Up: Move cursor to upside or increase value.
DOWN		Down: Move cursor to downside or decrease value.
EN		Enter: Confirm the selection.

Installation Procedure

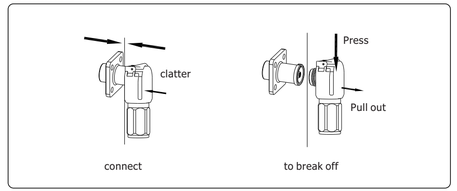




Wiring Procedure

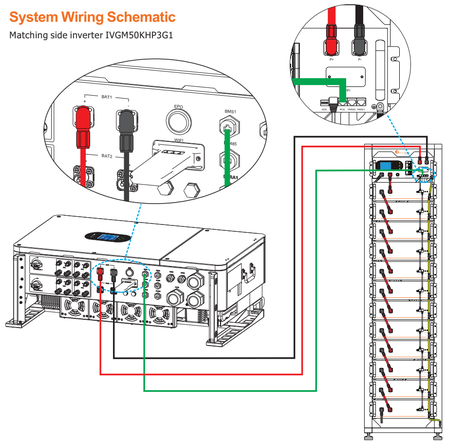


Terminal Connection

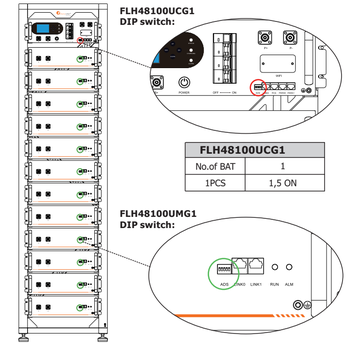


System Wiring Schematic

Matching side inverter IVGM50KHP3G1



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



FLH48100UCG1	
No.of BAT	1
1PCS	1,5 ON

FLH48100UMG1												
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

Installation Of Wifi Module

For detailed instructions on how to install WIFI Module, you can scan the QR code to the right to view the WiFi Module installation instructions.

WIFI Module

User Manual

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

User Manual