

# **USER MANUAL**





51.2V/100Ah

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## **Revision History**

Revision NO.	Revision Date	Revision Reason
1.0	2025.2	First Published



## **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  $1\Omega$ .
- 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.
- KKeep the battery away from water and fire.





- 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.





## 3. Introductions

#### 3.1 Symbol Definition

<u>.</u>	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.	Ð	Disconnect the equipment before carrying out maintenance or repair
	Do not connect the Pack's positive(+) and negative(-)terminal reversely.	SGS	Societe Generale de Surveillance S.A.
	Observe precautions for handling electrostatic discharge sensitive devices.	i	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.
E.S	Recyclable.	NOTE	Note: The procedures taken for ensuring proper operation.
Ā	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.	X	EU WEEE mark: Product should not be disposed as household waste.

#### **3.2 Brief Introduction**

LPBA48100-OL 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.

LPBA48100-OL 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: Wall-Mounted or Floor-Mounted.
- Wide Compatibility: Compatible with leading inverter brands.
- High Scalability: Capacity up to 61.44kWh with LPBA48100-OL.
- IP65 Protection Level: Suitable for Outdoor Use.
- Equipped with an aerosol fire extinguishing system.
- When the battery experiences overcurren.t causing the fuse to blow, it can be easily replaced externally, providing great convenience.

#### **3.4 Product Overview**

#### 3.4.1 External Packaging



#### 3.4.2 Product Appearance Display



Model:LUX-E-48100LG04



Code	Name	Definition		
A	NEG-	The DC output negative pole of the battery, connected to the inverter's negative pole via a cable.		
В	POS+	The DC output positive pole of the battery, connected to the inverter's positive pole via a cable.		
с	Breather Valve	When the pressure inside the battery pack is too high, the breather valve works to release the pressure to protect the battery pack.		
D	PE	Shell ground connection		
E	Link1	When the system is used in parallel: This CAN/RS485 communication socket is connected to the Link1 interface through communication cable.		
F	Link0	When the system is used in parallel: This CAN/RS485 communication socket is connected to the Link0 interface through communication cable.		
G	RS485 Communication	Rs485 port connects to Felicity inverters RS485 interfaces through communication cable		
н	PCS Communication	CAN/RS485 port connects to other inverters CAN/RS485 interfaces through communication cable		
I	Fuse	Circuit protection for overcurrent		
J	Handle	Handle		
К	ON/OFF Switch	Circuit protection for overvoltage		
L	LED	Indicate the battery's SOC		
М	Power/Running Status	<ol> <li>Indicate the power on/off function: press once to turn on, press and hold for 3 seconds to turn off;</li> <li>A green light indicates normal status,</li> <li>while a red light indicates fault status.</li> </ol>		



#### 3.4.3 Description for Communication port



#### LINK-0/LINK-1(Parallel communication interface)

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

#### RS485

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

PCS

00		
Pin	Function Definitions	Function Declaration
1	GND	Power/signal ground
2	NC	
3	NC	
4	NC	
5	485B	RS485-B
6	485A	RS485-A
7	CANL	CANL-PCS
8	CANH	CANH-PCS



#### **3.5 LED Display Icons**

There are four LED indicators on the front of the battery packs to show its operating status. **SOC LED indication**:

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

Note: The battery need to be fully charged for at least once in one month to ensure the accurate SOC calculation.

#### 3.5.1 ON/OFF or SOC Led(Mode or SOC)



LED Definition	ON/0	ON/OFF LED Status			Fault Infa				
LLD Demition	Green LED	Red LED	LED1	LED2	LED3	LED4	Fault Info		
Power OFF	OFF	OFF	OFF	OFF	OFF	OFF			
Power ON	OFF	ON	ON	ON	ON	ON			
Stand By	OFF	OFF		SC	C		SOC<10%(Default):LED1 Flash		
Normal	ON	OFF		Runnir	ig/SOC		SOC<10%(Default):LED1 Flash		
Discharge	ON	OFF		SC	C		SOC<10%(Default):LED1 Flash		
Charge	Flash	OFF		Run	ning				
Low Power	Flash	OFF		OFF					
	OFF				ON	OFF	OFF	OFF	Battery Voltage High
			OFF	ON	OFF	OFF	Battery Voltage Low		
				ON	ON	OFF	OFF	Cell Voltage High	
			OFF	OFF	ON	OFF	Cell Voltage Low		
		OFF		ON	OFF	ON	OFF	Charging Current High	
Fault			OFF	OFF	OFF ON	OFF	ON	ON	OFF
			ON	ON	ON	OFF	BMS Temperture High		
			OFF	OFF	OFF	ON	BMS Temperature Low		
			ON	OFF	OFF	ON	Cell Temperture High		
			OFF	ON	OFF	ON	Cell Temperature Low		
				ON	ON	OFF	ON	Current Sensor Abnomal	



#### 3.6 Battery Management System(BMS)

#### Voltage Protection

#### Low Voltage Protection in Charging:

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°C~+55°C
- Charging temperature range: 0°C~+55°C
- Discharging temperature range: -20°C~+55°C
- Storage temperature: 0°C~+35°C
- Relative humidity: 5% ~ 95%
- Elevation: ≤2000m

Operating environment: Suitable for indoor or outdoor 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	Quick installation guide	1	
3	Warranty card	1	Result Cat
4	Lock wall components: Used for product transportation andwall fixation	1	K
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	1
6	Power Cable: 0.9 meters, 25mm <sup>2</sup> , allows for charging and discharging up to 125A, used for connecting to external PCS	2	$\bigcirc$
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	<b>'O'</b>
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	Ő
10	Communication Cable 4:Black, used for parallel communication between battery packs	1	$\bigcirc$
11	Screw: used for installing the product's handle	8	
12	Plastic Expansion Screw: used for securing the product's wall mount	5	. HAT I F
13	Signal Terminal: used for creating custom communication cables	2	



#### 4.3 Installation Procedure

#### 4.3.1 Mounting the Battery

#### (a) Wall-Mounted method

Step 1: Using wall mounted components, first fix the wall mounted components to the wall.Use a 10mm drill bit (10mm diameter, 50mm depth) to drill 4 holes in the correct location.



Step 2: Lift the machine onto the wall mounted components to secure it, Lock one M4\*12 screw on the left and right sides of the wall mount.







- **Note:** Do not use wall mounted components, place the chassis against the wall and secure it with fixing components
- (b) Floor-Mounted method



#### 4.3.2 Batteries in parallel

The LPBA48100-OL 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 connected with PWM controller for chargingSpecial Attention: Due to the built-in protection board of the lithium battery pack is with overdischarge 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 fordis charge. 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 PCS Port Pin Definition

BATTERY-Felicitysolar

Picture	Pin	Color	Definition		Pin	Color	Definition	Picture
	1	ORG-WH	COM-GND		1	ORG-WH	/	
P1P8	2	ORG	/		2	ORG	/	P1P8
	3	GN-WH	/		3	GN-WH	/	
	4	BU	/		4	BU	/	
	5	BU-WH	RS485-B		5	BU-WH	/	
	6	GN	RS485-A		6	GN	/	
	7	BN-WH	CANL-PCS		7	BN-WH	CANL-PCS	
	8	BN	CANH-PCS			8	BN	CANH-PCS

INVERTER



## 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							(	ļ						
2PCS	1,5 ON	2,5 ON								10	٧		DP		
3PCS	1,5 ON	2 ON	1,2,5 ON												
4PCS	1,5 ON	2 ON	1,2 ON	3,5 ON						4	2	2			
5PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3,5 ON					1	2	3 4	45		
6PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3,5 ON			<u> </u>						
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, 4,50N		
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 4,50N

#### 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();

Step 2: Turn on the battery breaker ("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();

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

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

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





## 6. Maintenance and Troubleshooting

#### 6.1 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.



## 6.2 Maintenance Troubleshooting

#### 6.2.1 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			



#### 6.2.2 Fault Code

LED Definition		I	ED Status		Fourth Junio	
LED Definition	LED1	LED2	LED3	LED4	Fault Info	
	ON	OFF	OFF	OFF	Bbttery Voltage High	
	OFF	ON	OFF	OFF	Battery Voltage Low	
	ON	ON	OFF	OFF	Cell Voltage High	
LED4	OFF	OFF	ON	OFF	Cell Voltage Low	
LED3	ON	OFF	ON	OFF	Charging Current High	
	OFF	ON	ON	OFF	Discharging Current High	
LED2	ON	ON	ON	OFF	BMS Temperture High	
LED1	OFF	OFF	OFF	ON	BMS Temperature Low	
	ON	OFF	OFF	ON	Cell Temperture High	
	OFF	ON	OFF	ON	Cell Temperature Low	
	ON	ON	OFF	ON	Current Sensor Abnomal	

## 7. 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.

#### 7.1 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<sub>2</sub>. After filtration, the filtrate is neutralized with a sulfuric acid solution, resulting in the precipitation of Al(OH)<sub>3</sub>. When the pH exceeds 9.0, the majority of the aluminum precipitates, and the resulting Al(OH)<sub>3</sub> 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 Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> and Li<sub>2</sub>SO<sub>4</sub>, 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 Fe(OH)<sub>3</sub>, followed by the precipitation of the remaining solution using a saturated Na<sub>2</sub>CO<sub>3</sub> solution at 90°C.

#### 7.2 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.

#### 7.3 Recovery of diaphragm

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

#### 7.4 List of recycling equipment

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



## **Appendix I**

Model	LPBA48100-OL					
Battery Type	LiFePO4					
Nominal Energy	5.12kWh					
Nominal Capacity	100Ah					
Nominal Voltage	51.2V					
Operating Voltage	44.8~57.6V					
Recommend Charge/Discharge Current	50A					
Max.continuous charge/Discharge current[1]	60A					
Peak Charge/Discharge Current(15s)	100A					
Scalability	Max.12 pcs in Parallel(61.44kWh)					
Depth of Discharge(DOD)	≥ 95%					
Display type	LED					
IP Rating of Enclosure	IP65					
Working Temperature Range	Charge: 0°C~+55°C					
	Discharge:-20°C~+55 °C					
Storge Temperature Range	0°C~+35°C					
Humidity	5%~95%					
Altitude	≤ 2000m					
Communication	RS485 / CAN					
Cycle Life[2]	≥ 6000 Cycles					
Installation	Wall-Mounted / Floor-Mounted					
Protection	Built-in smart BMS, Breaker, Fuse					
Warranty Period[3]	10 Years					
Product Weight Approximate	48.5kg					
Package Weight Approximate	64.5kg					
Product Dimension	665x440x175 mm					
Package Dimension	760x540x345mm					
[1] Max.continuous charge/Discharge current is affected by temperature and SOC.						
[2]Test conditions: 0.2C Charging/Discharging @25°C, 80% DOD.						
[3] Conditions apply, refer to Felicitysolar Warranty policy.						

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

Setting	LPBA48100-OL
Max. Charging Voltage	57.6V
Floating Charging Voltage	57.6V
Max. Charging Current	150A*N
Cut-off Voltage	48V

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