

MOTTCELL[®]

24314-300L-BT

INSTALLATION MANUAL



! Warning: Read this entire document before installing or using the product. 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 the product, potentially rendering it inoperable.

PRODUCT SPECIFICATIONS

All specifications and descriptions contained in this document are verified to be accurate at the time of printing. However, because continuous improvement is a goal at MOTTCELL, we reserve the right to make product modifications at any time.

The images provided in this document are for demonstration purposes only. Depending on product version and market region, details may appear slightly different.

ERRORS OR OMISSIONS

To communicate any inaccuracies or omissions in this manual, please contact MOTTCELL.



ELECTRONIC DEVICE: DO NOT THROW AWAY

Proper disposal of batteries is required. Refer to your local codes for disposal requirements

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The unauthorized use of any trademark displayed in this document or on the product is strictly prohibited.

IMPORTANT SAFETY INSTRUCTIONS

This manual contains important instructions for the product that must be followed during installation and maintenance of the system. Product installation and service require knowledge of high voltage electricity and should only be performed by Certified Installers. MOTTCELL assumes no liability for injury or property damage due to repairs attempted by unqualified individuals or a failure to properly follow these instructions. These warning and cautions must be followed when using the product.

SYMBOLS USED

These symbols indicate important safety information in this guide or on the equipment:



WARNING

indicates a hazardous situation which, if not avoided, could result in injury or death.



CAUTION

indicates a hazardous situation which, if not avoided, could result in minor injury or damage to the equipment.

NOTE

indicate an important step or tip that leads to best results, but is not safety or damage related.



REFER TO OPERATING INSTRUCTIONS

indicates that user should refer to operating or installation instructions before proceeding.



RISK OF ELECTRIC SHOCK

indicates components that present risk of electrical shock.



CAUTION, RISK OF ELECTRIC SHOCK, ENERGY STORAGE TIMED DISCHARGE

Discharge time is 5 minutes from de-energization.



BIDIRECTIONAL TERMINIAL

indicates location of combined input/output connector on the equipment.



PROTECTIVE CONDUCTOR TERMINAL

indicates location of grounding connection on the equipment.

ENVIRONMENTAL CONDITIONS

 **WARNING:** Reading this entire document before installing or using the product. 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 MOTTCELL, potentially rendering it inoperable.

 **WARNING:** A battery can present a risk of electrical shock, fire, or explosion from vented gases. Observe proper precautions.

 **WARNING:** Do not use the product if it is defective, appears cracked, broken, or otherwise damaged, or fails to operate.

 **WARNING:** Do not attempt to open, disassemble, repair, tamper with, or modify the product. The product and its components are not user serviceable. Batteries in MOTTCELL are replaceable. Contact the Certified Installer who installed the system for any repairs.

 **CAUTION:** Do not use fluids, parts or accessories other than those specified in this manual including use of non-genuine MOTTCELL ENERGY parts or accessories, or parts or accessories not purchased directly from MOTTCELL ENERGY or a MOTTCELL ENERGY-certified party.

 **CAUTION:** Do not place the product in a storage condition for more than one (1) month, or permit the electrical feed on the product to be served for more than one (1) month, without placing the product into a storage condition in accordance with MOTTCELL ENERGY's storage specifications.

 **CAUTION:** Do not connect the product directly to photo voltaic (PV) solar wiring.

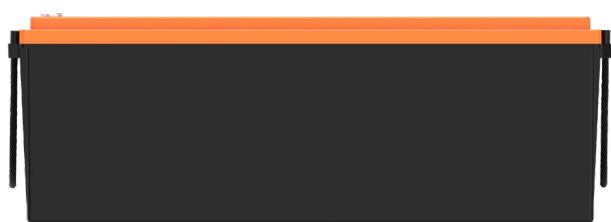
REVISION HISTORY

Date	Revision	Description	Owner
2025-02-15	V1.0	Initial Release	

CATALOG

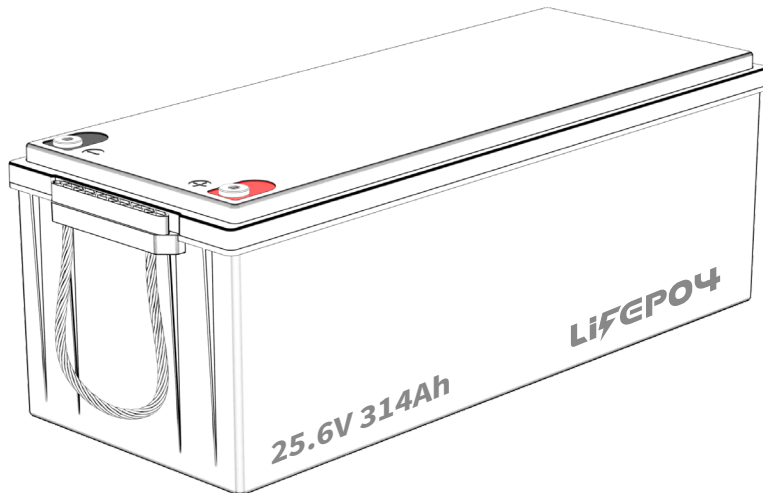
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SPECIFICATION



Technical Parameters		24314-300L-BT
Cell Type		LiFePO4
Rated Capacity		320Ah
Rated Battery Energy		8.19kWh
Rated Voltage		25.6V
Working Voltage Range		20~29.2V
Usable Battery Capacity		8.19kWh
Parallel Quantity ¹		2S4P (32.77kWh Max)
Nominal Current (Recommended) ²		200A
Battery Depth of Discharge		100%
Battery Max Charge/Discharge Power		8.19kW
Available SOC Range		0% ~ 100%
SOC Transportation Range		40%
Operating Temperature		Charging Temperature: 0℃~45℃ Discharge Temperature: -20℃~60℃
Storage Temperature ³		-20℃ ~ 45℃
Working Humidity		5~95%RH
Standard Charging Current		0.2C, 64A
Maximum Charging Continuous Current		200A
Continuous/Peak Discharge		200A(600A 3S/800A 1S)
Rated DC Power		5.12kW
IP Grade		IP65
Recommended Indoor/Outdoor Usage		Indoor/Outdoor
Weight		≈50.5Kg
Dimensions (W*D*H)		L633*W242*H218mm (L24.92*W9.53*H8.58 inch)

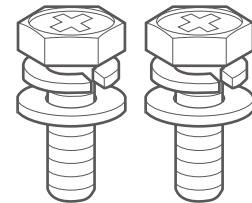
Packing List



25.6V 314Ah
Smart Lithium Iron Phosphate Battery x1



User Manual x1



M8*1.25*16 mm
Terminal Bolts x4

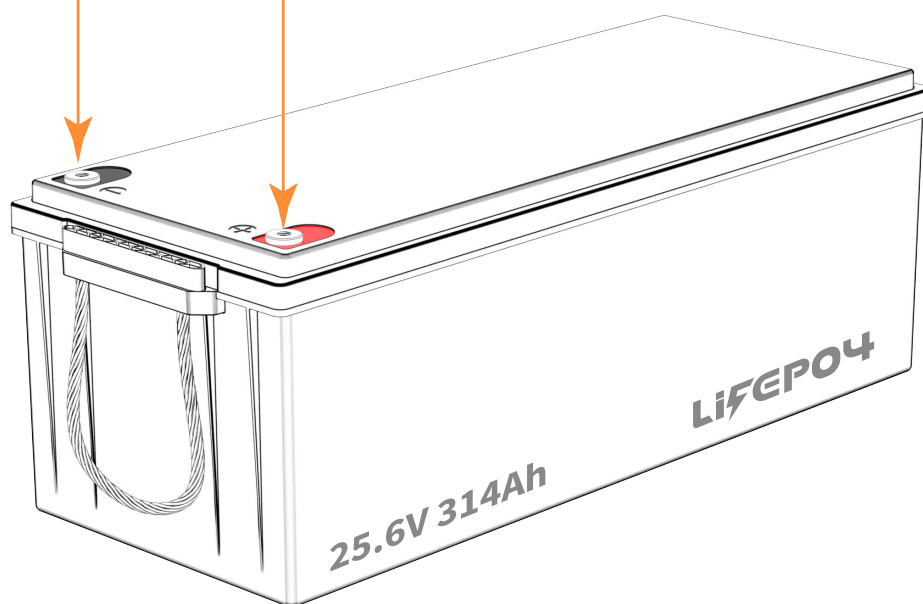
! Make sure that all accessories are complete and free of any signs of damage.

Mechanical Specification

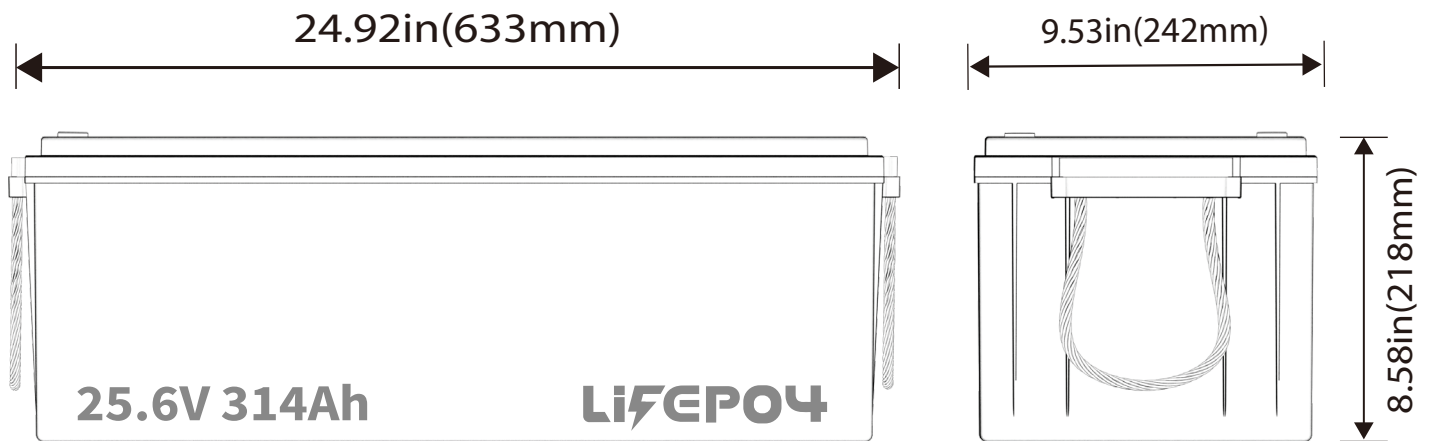
Top

Positive Terminal (M8)

Negative Terminal (M8)



Dimensions



111.33lbs. (50.5 kg)

! Dimension tolerance: ± 0.2 in (0.5 mm)

To Size Battery Adapter Cables

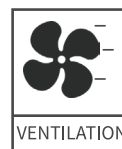
Use appropriately sized Battery Adapter Cables (sold separately) based on expected load. Refer to the table below for copper cable ampacities with different gauge sizes.

Cable Gauge Size	Ampacity	Cable Gauge Size	Ampacity
15 AWG (1.5 mm ²)	16A	3 AWG (33.5 mm ²)	125A
13 AWG (2.5 mm ²)	25A	2 AWG (50 mm ²)	160A
9 AWG (6 mm ²)	35A	1 AWG (70 mm ²)	200A
7 AWG (12 mm ²)	50A	1/0 AWG (95 mm ²)	250A
6 AWG (16 mm ²)	80A	2/0 AWG (150 mm ²)	300A
4 AWG (25 mm ²)	100A	4/0 AWG (185 mm ²)	355A

! The above values are from the NEC Table 310.17 for copper cables rated at 194°F (90°C), operating at an ambient temperature of no more than 86°F (30°C). Cables longer than 13 feet (4000 mm) may require thicker gauge wires to prevent excessive voltage drop in undersized wiring.

Choose a Mounting Site

For optimal battery performance, it is recommended to install the battery in a clean, cool, and dry location, free from any accumulation of water, oil, or dirt. Accumulation of such materials on the battery can lead to current leakage, self-discharge, and even short-circuiting.



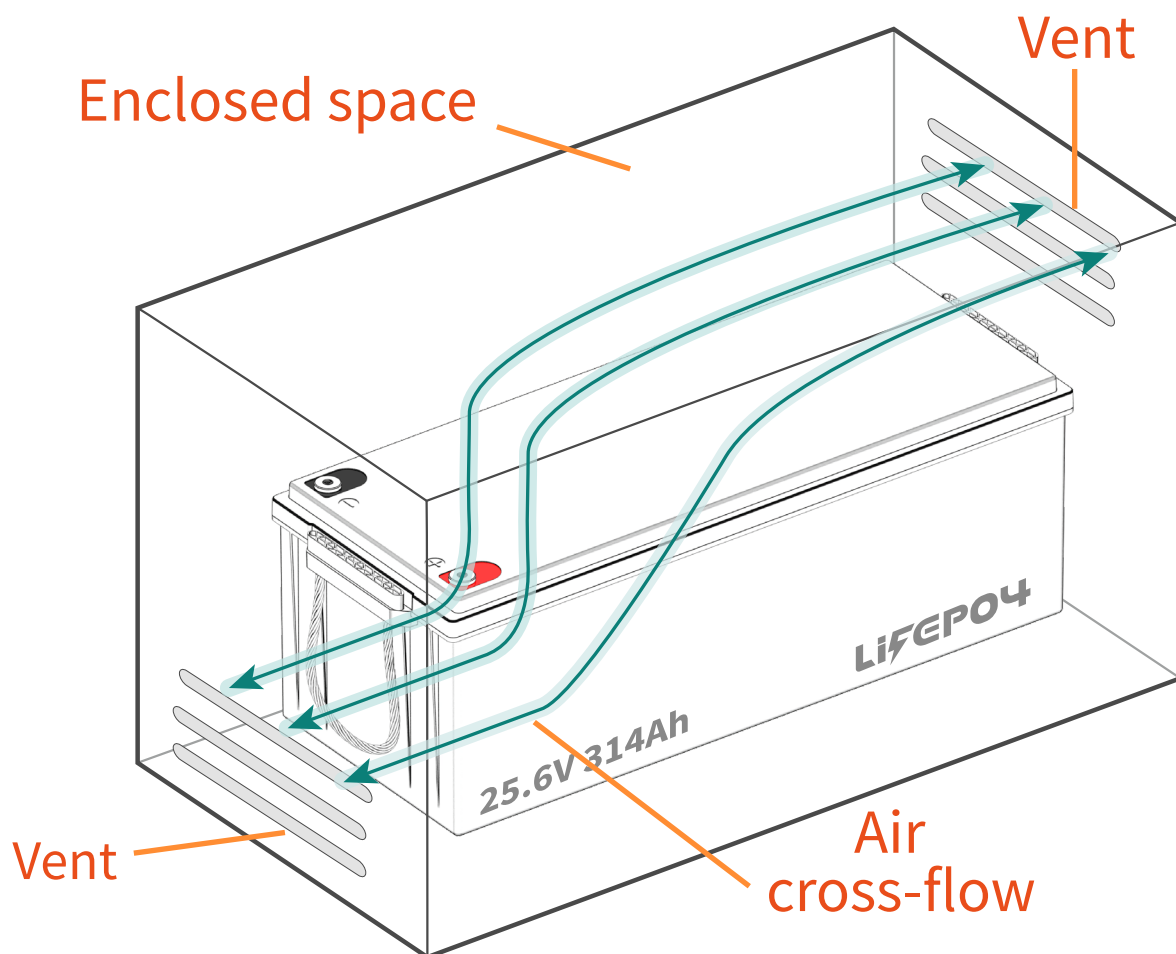
Min-20 °C



Max+45 °C



RH.+5%~+95%



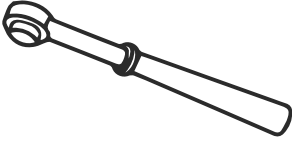
⚠ Sufficient airflow must be provided to prevent excessive heat build-up and to minimize temperature variation between the connected batteries.

! This user manual takes a battery as an example to illustrate how to install the battery.

Tools required for installation

Prior to installing and configuring the battery, prepare the recommended tools, components, and accessories.

1



Torque wrench

2



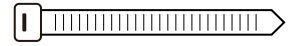
Wrench

3



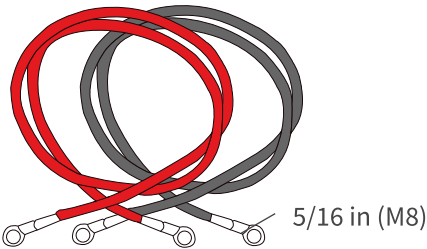
Scissors

4



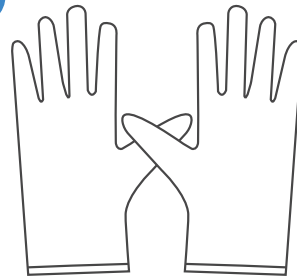
tie

5



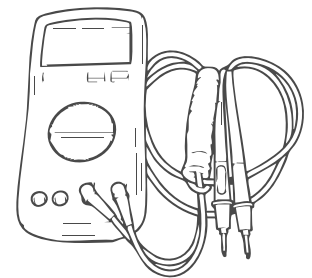
Battery Adapter Cables × 2

6



Insulating Gloves

7

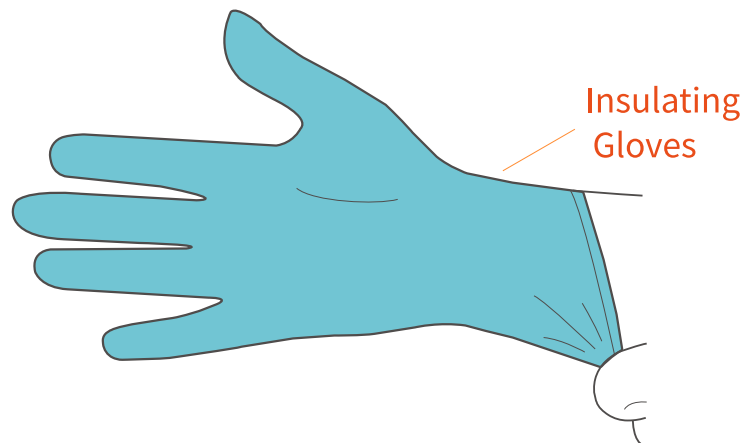
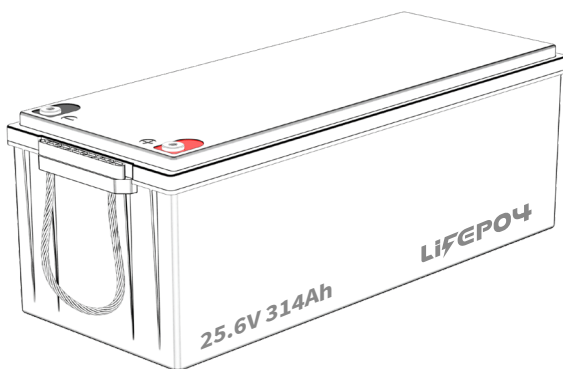


Multimeter

! When assembling, ensure that parallel and series connection wires are of equal length.

Wear Insulating Gloves

Inspect the battery for any visible damage including cracks, dents, deformation, and other visible abnormalities. All connector contacts shall be clean, free of dirt and corrosion, and dry.



! Do not touch the exposed electrolyte or powder if the battery is damaged.

! If uncovered electrolyte or powder contacts your skin or eyes, flush it out immediately with plenty of clean water and seek medical attention.

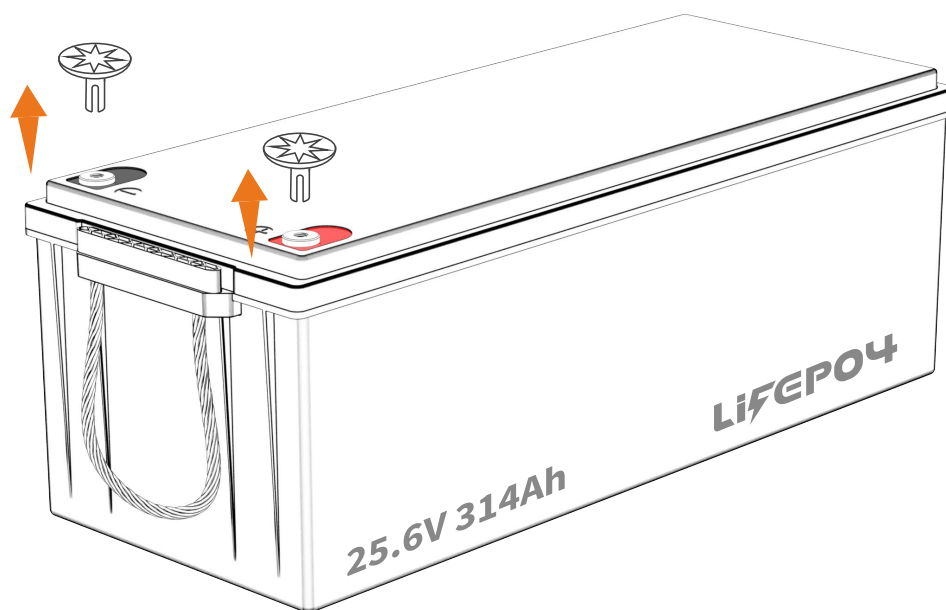
NOTICE BEFORE USING

If it is used as a single unit (1S1P)

■ Step 1

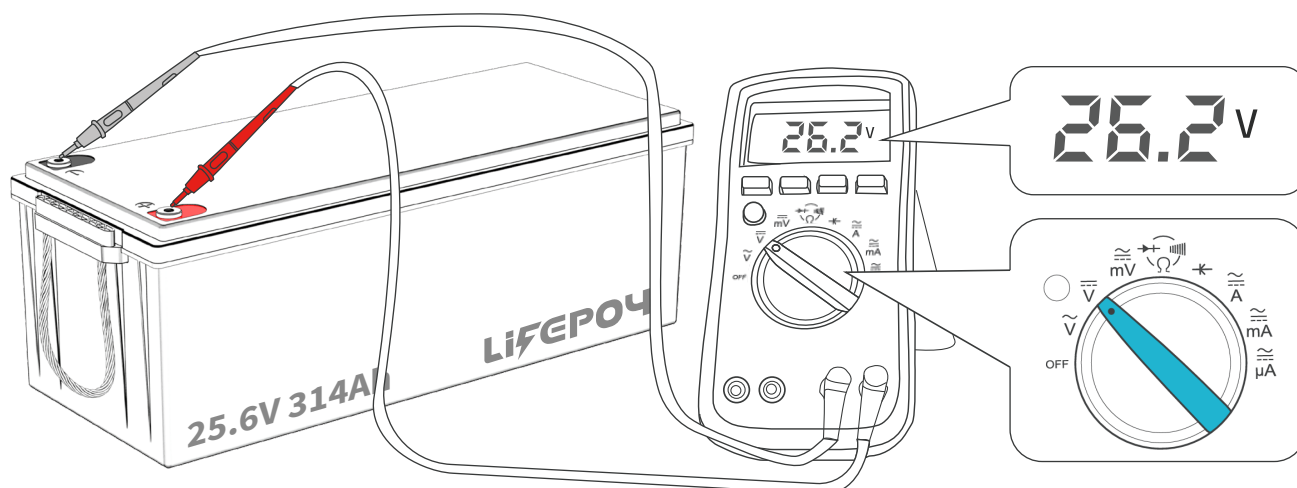
Check The Battery And Remove The Insulation Cover

Inspect the battery for any visible damage including cracks, dents, deformation, and other visible abnormalities. All connector contacts shall be clean, free of dirt and corrosion, and dry.



■ Step 2

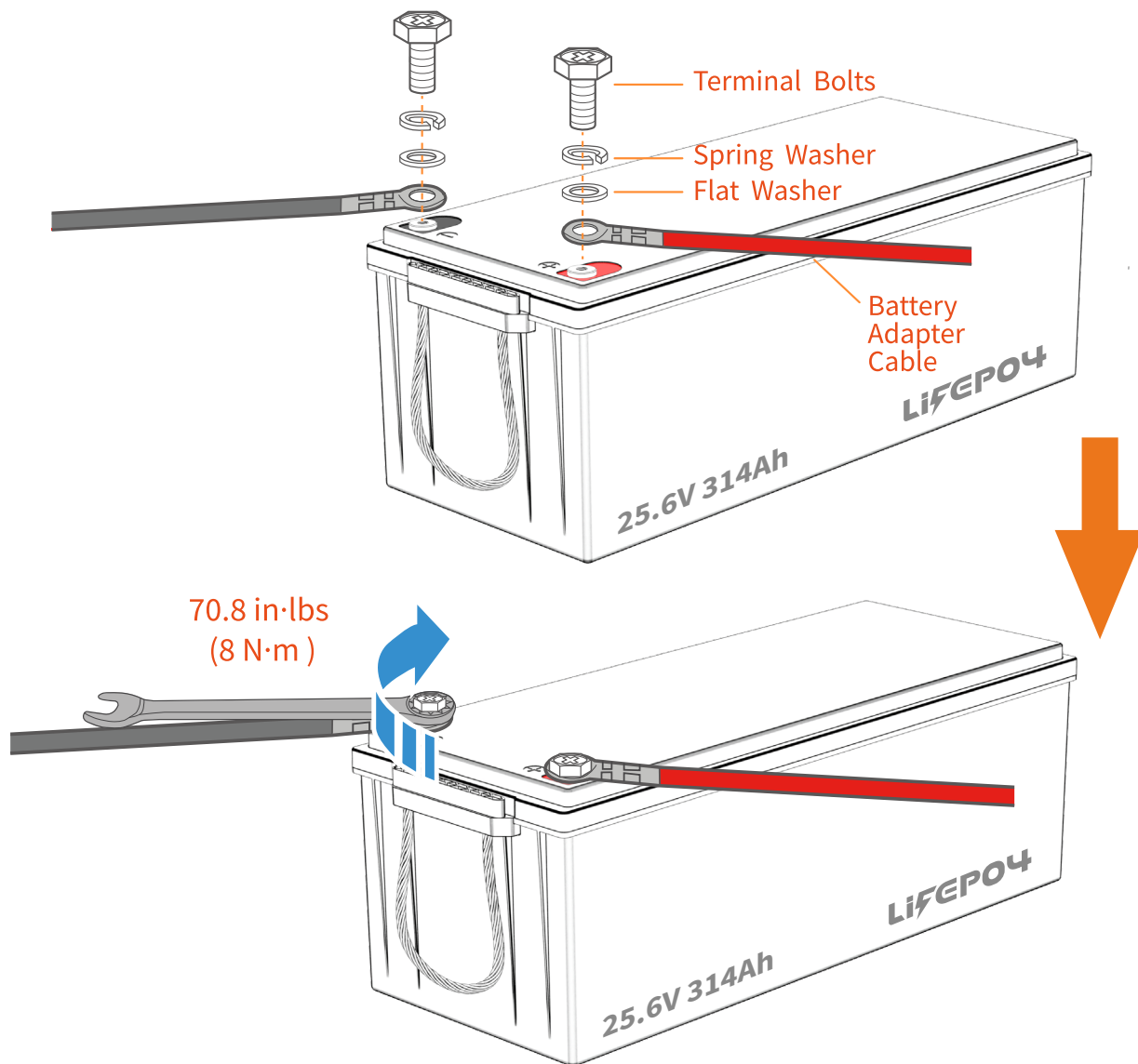
Test The Battery Voltage with Multimeter



! <24V connect _____ to help solve the problem.

Step 3

Install Battery Terminals



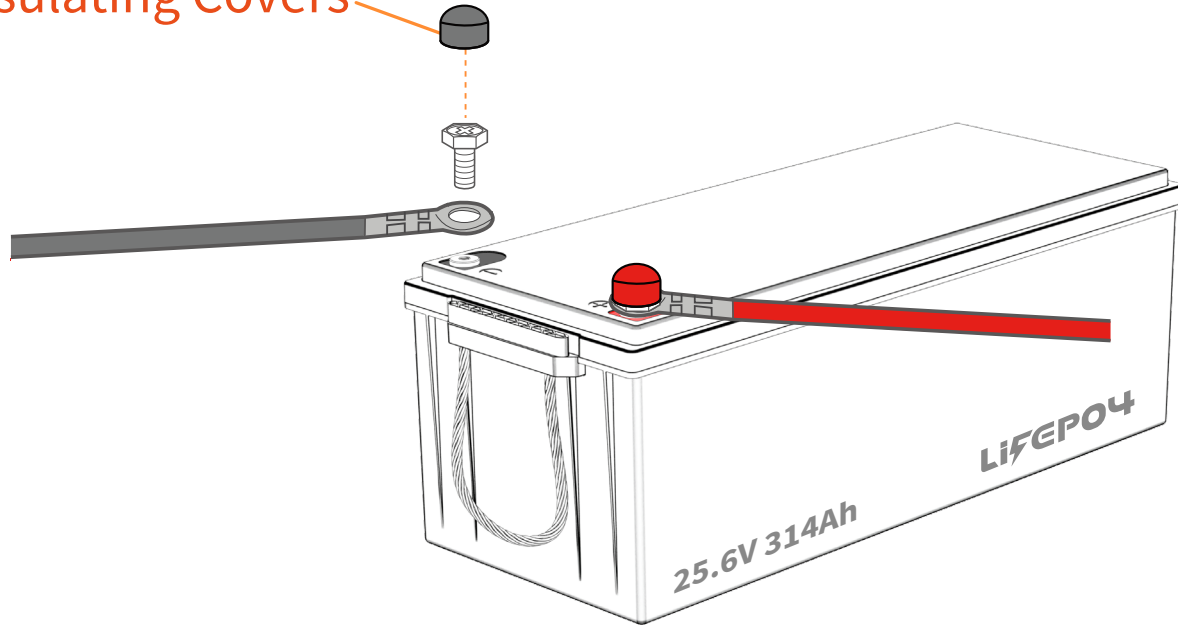
- ⚠ Ensure the cable lug and the top surface of the terminal are in contact, and place the washers on top of the lug. Do not place the washers between the battery terminal and the cable lug to avoid high resistance and excessive heating.
- ⚠ Avoid short-circuiting the battery terminals to prevent irreversible damage to the system and battery caused by current bursts.
- ⚠ Verify polarity before wiring to avoid irreversible battery damage due to polarity reversal.
- ⚠ Do not touch the positive and negative terminals of the battery with your hands.
- ⓘ To ensure safe and reliable operation of the system, please follow the torque specifications recommended by the manufacturer when securing cable connections. Over-tightening can result in terminal breakage, while loose connections can lead to terminal meltdown or fire. When securing multiple cable lugs on a single battery terminal, use the included Long Terminal Bolts. (Employ torque wrench-model number 1)

■ Step 4

PUT ON Insulating Covers

Please put on the insulating covers to avoid metal or conductive objects touching the positive and negative terminals of the battery at the same time, otherwise it is likely to cause a short circuit.

Insulating Covers



■ Step 5

Fully Charge The Battery Separately

(Refer to Page 21-23 for battery charging methods)

■ Step 6

Connect the Battery to Other Devices

Please use circuit breakers, fuses, or disconnects appropriately sized by a certified electrician, licensed installers, or regional code authorities to protect all electrical equipment.

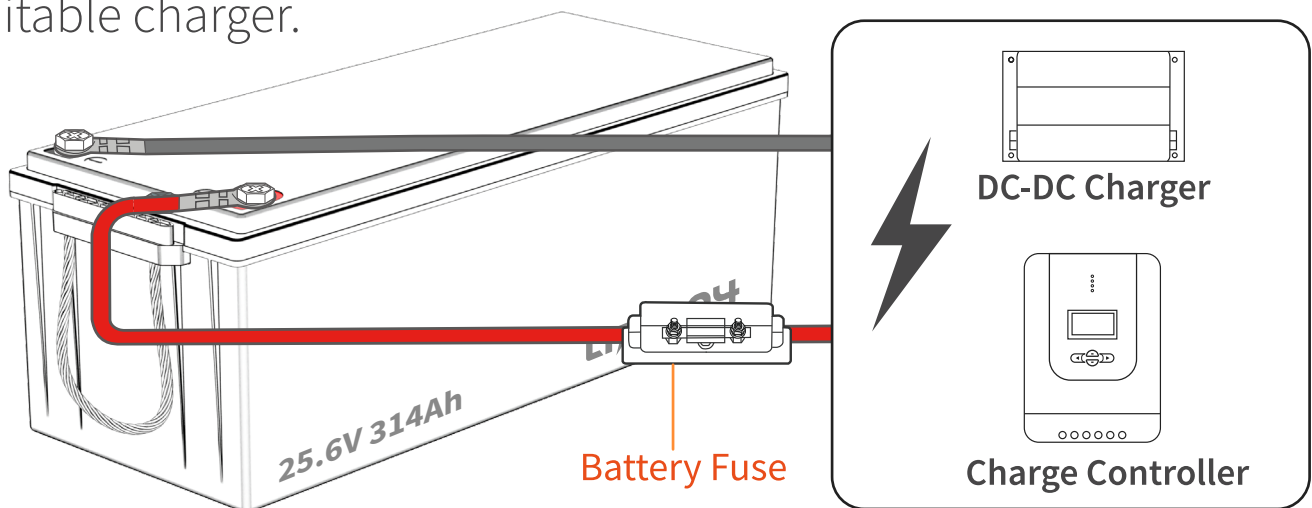
If you use 2 or more units in parallel

■ Balance Batteries Prior to Connection

Before connecting batteries in parallel, it is important to balance them to reduce voltage differences and optimize their performance. Follow these three steps: (You can choose suitable busbars in parallel connections. Busbars help handle high currents and are typically arranged in a parallel or stacked configuration to distribute electrical power efficiently.)

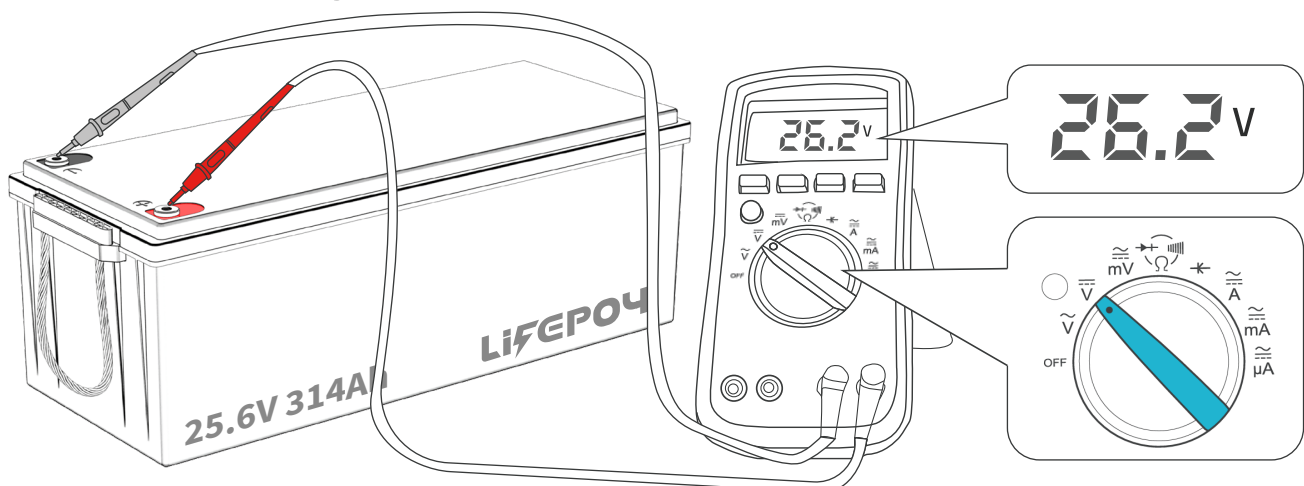
■ Step 1

Charge each battery individually to its full capacity using a suitable charger.



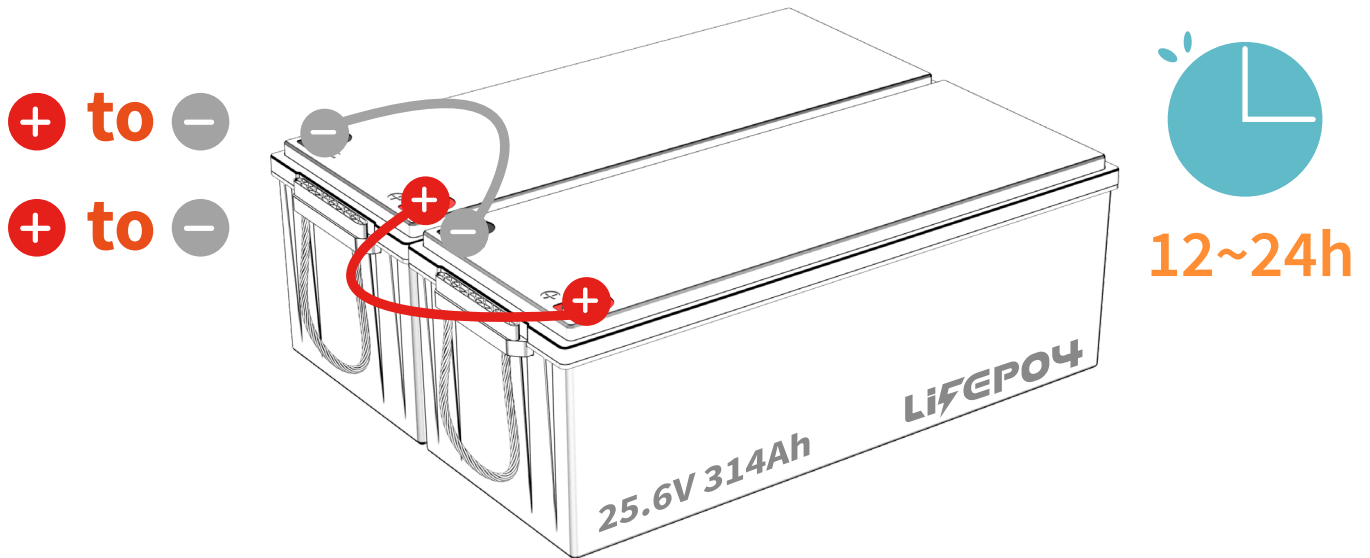
■ Step 2

Use a voltmeter to measure the voltage of each battery. It is best to keep the voltage difference of each battery less than 0.1V.



Step 3

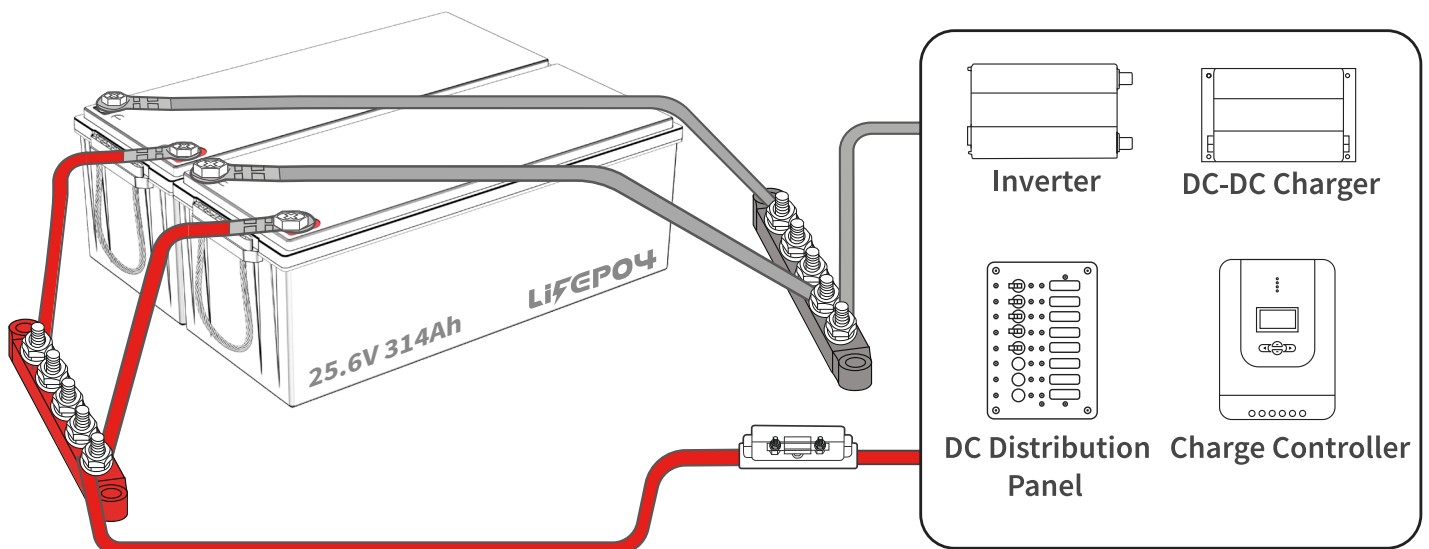
Connect all the batteries in parallel and allow them to rest together for 12 to 24 hours.



! Refer to page 12 for screw installation parameters.

Step 4

Connect the 1# and 2# positive and negative poles to the busbars that match the current power. Then connect the busbar + and busbar - to the power supply end and the load end respectively.



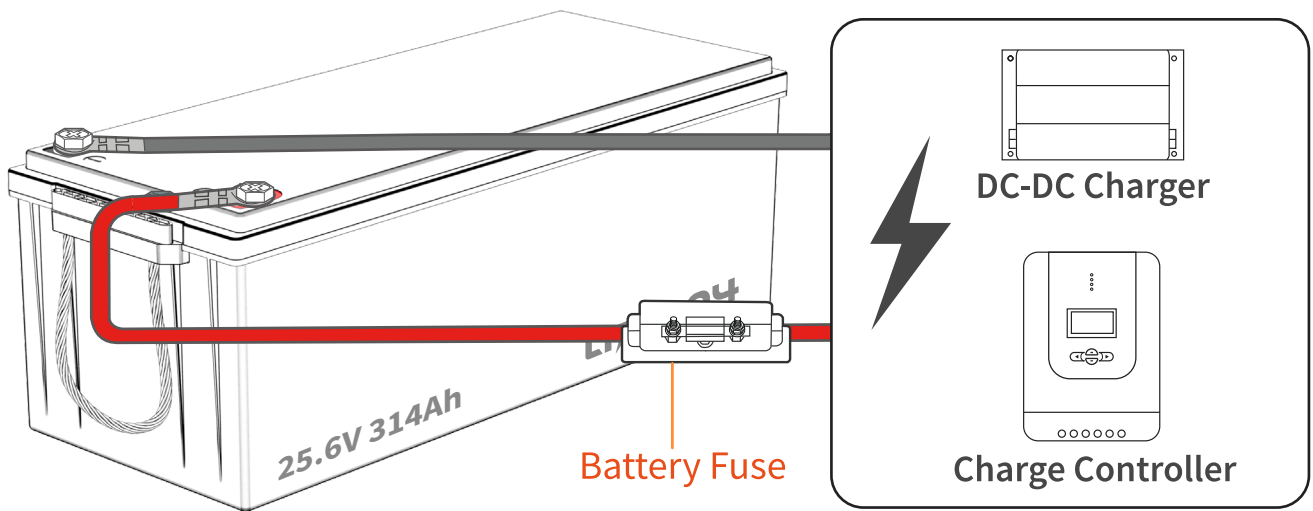
NOTICE BEFORE USING

If you use 2 or more units in series or parallel:

You can choose suitable busbars in parallel connections. Busbars help handle high currents and are typically arranged in a parallel or stacked configuration to distribute electrical power efficiently

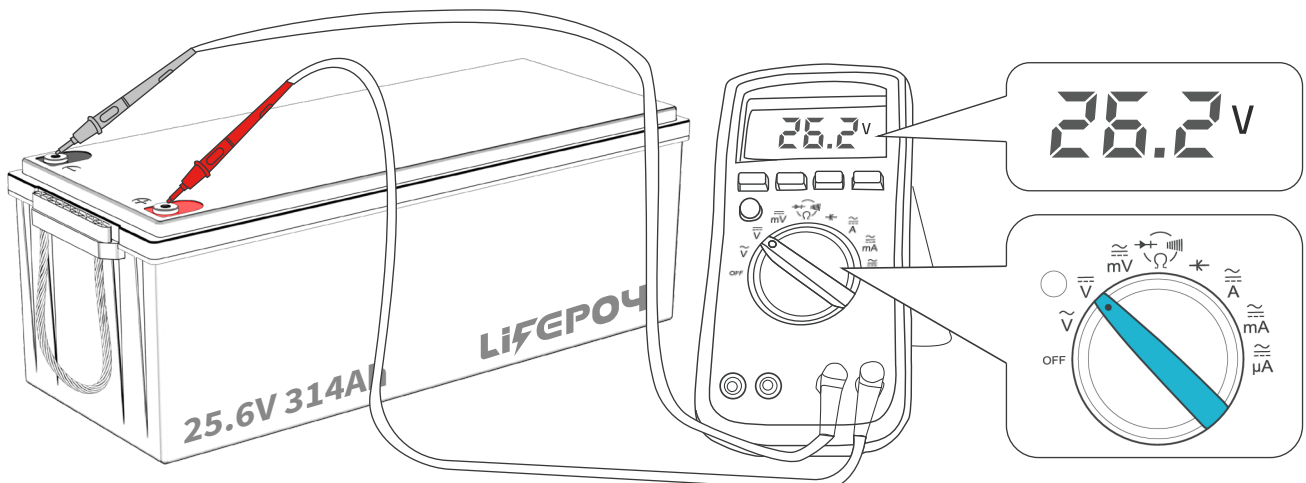
Step 1

Charge each battery individually to its full capacity using a suitable charger.



Step 2

Use a voltmeter to measure the voltage of each battery. It is best to keep the voltage difference of each battery less than 0.1V.

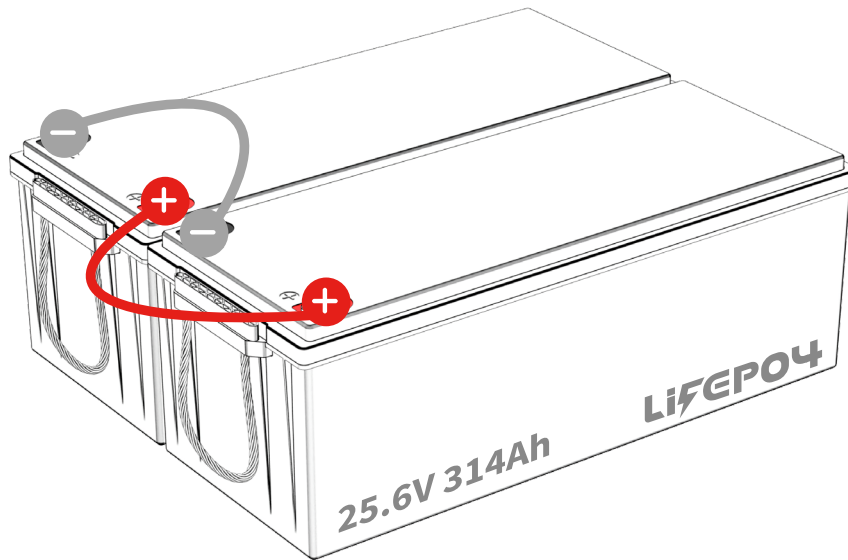


Step 3

Connect all the batteries in parallel and allow them to rest together for 12 to 24 hours.

+ to **-**

+ to **-**

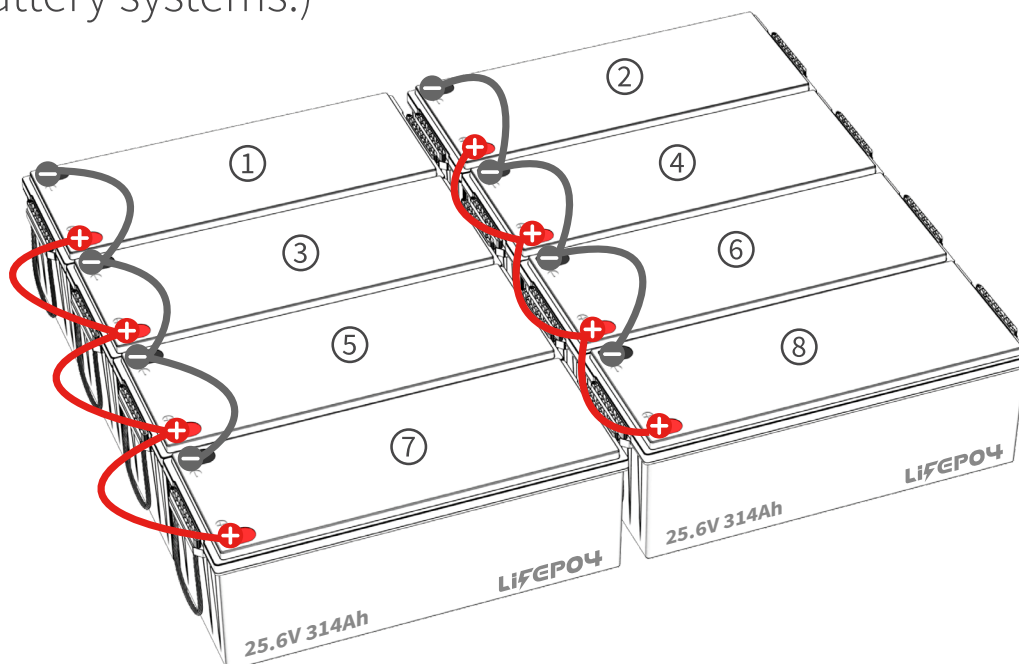


12~24h

! Refer to page 12 for screw installation parameterst.

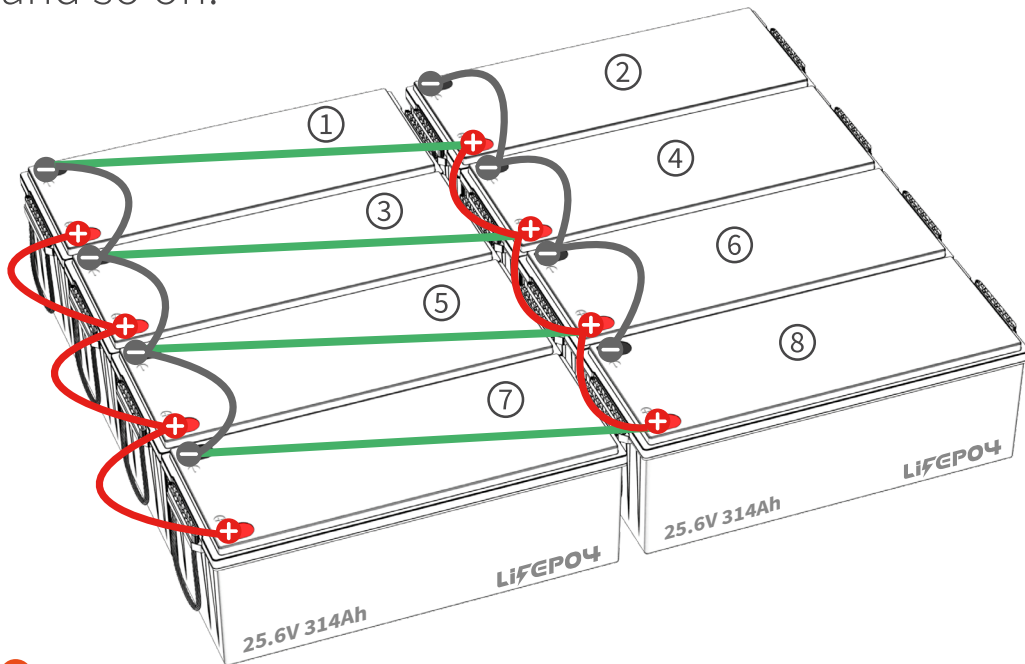
Step 4

After the voltage is balanced, remove the screws of the battery and connect the batteries in parallel first. (Take 2S4P as an example, first connect the 8 batteries 1#, 3#, 5#, 7# and 2#, 4#, 6#, 8# in parallel to form 2 battery systems.)



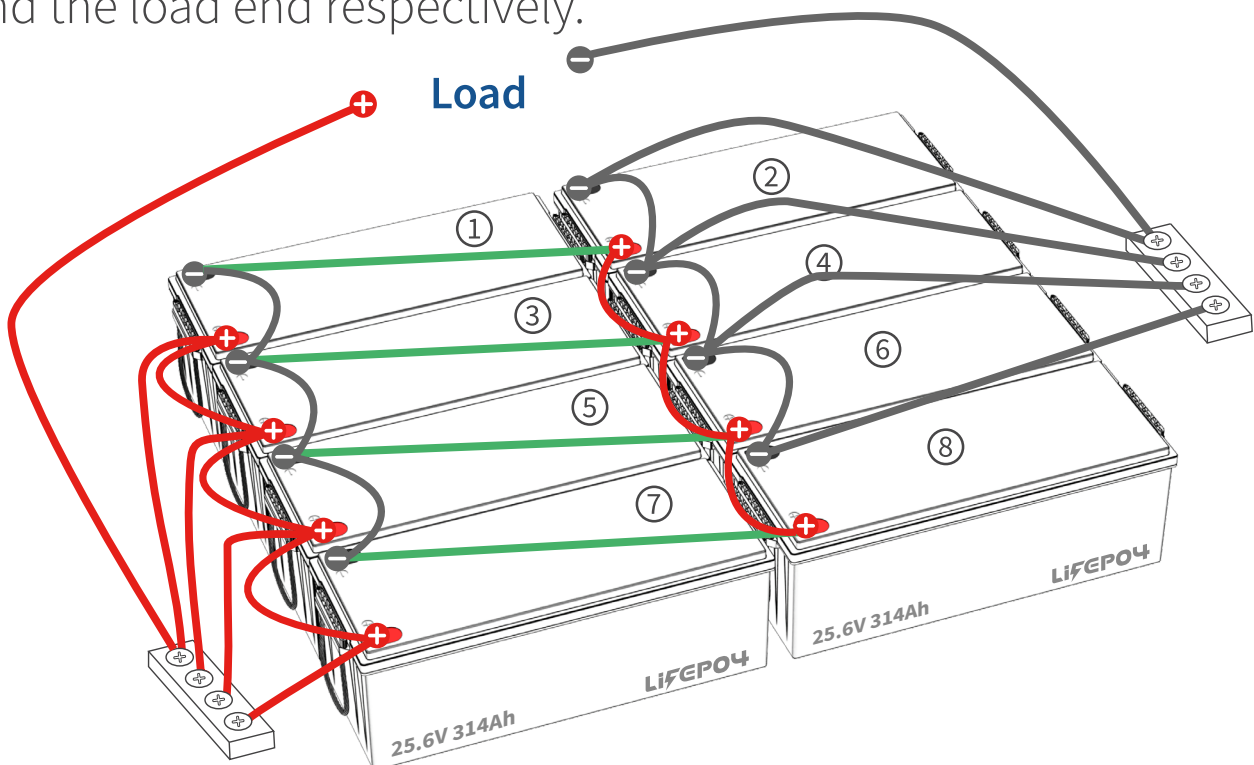
Step 5

Connect the two battery systems in series. Connect the negative pole of 1# and the positive pole of 2# in series, 3# and 4#, 5# and 6#, 7# and 8# and so on.



Step 6

Connect the positive poles of 1#, 3#, 5#, 7# and the negative poles of 2#, 4#, 6#, 8# to the busbars that match the current power. Then connect the busbar + and busbar - to the power supply end and the load end respectively.



4P2S 48 (51.2V)1256Ah Battery System

Note: It is recommended to periodically re-balance the battery voltages every six months when connecting multiple batteries as a battery system. Slight voltage differences can occur among batteries over time due to factors like battery chemistry, capacity, temperature, and usage patterns. Please refer to Table 1 for the voltage, capacity parameters and maximum number of series and parallel connections.

Note that the cable connection methods provided below are for reference purposes only, as the optimal approach may vary depending on the specific situation. It is essential to consider various factors, such as the cable size, equipment used, and environmental conditions.

Battery System	24V (25.6V)640Ah	1S2P
Energy	163840Wh	
Battery System	48V (51.2V)314Ah	2S1P
Energy	16384Wh	
Battery System	48V (51.2V)640Ah	2S2P
Energy	32768Wh	

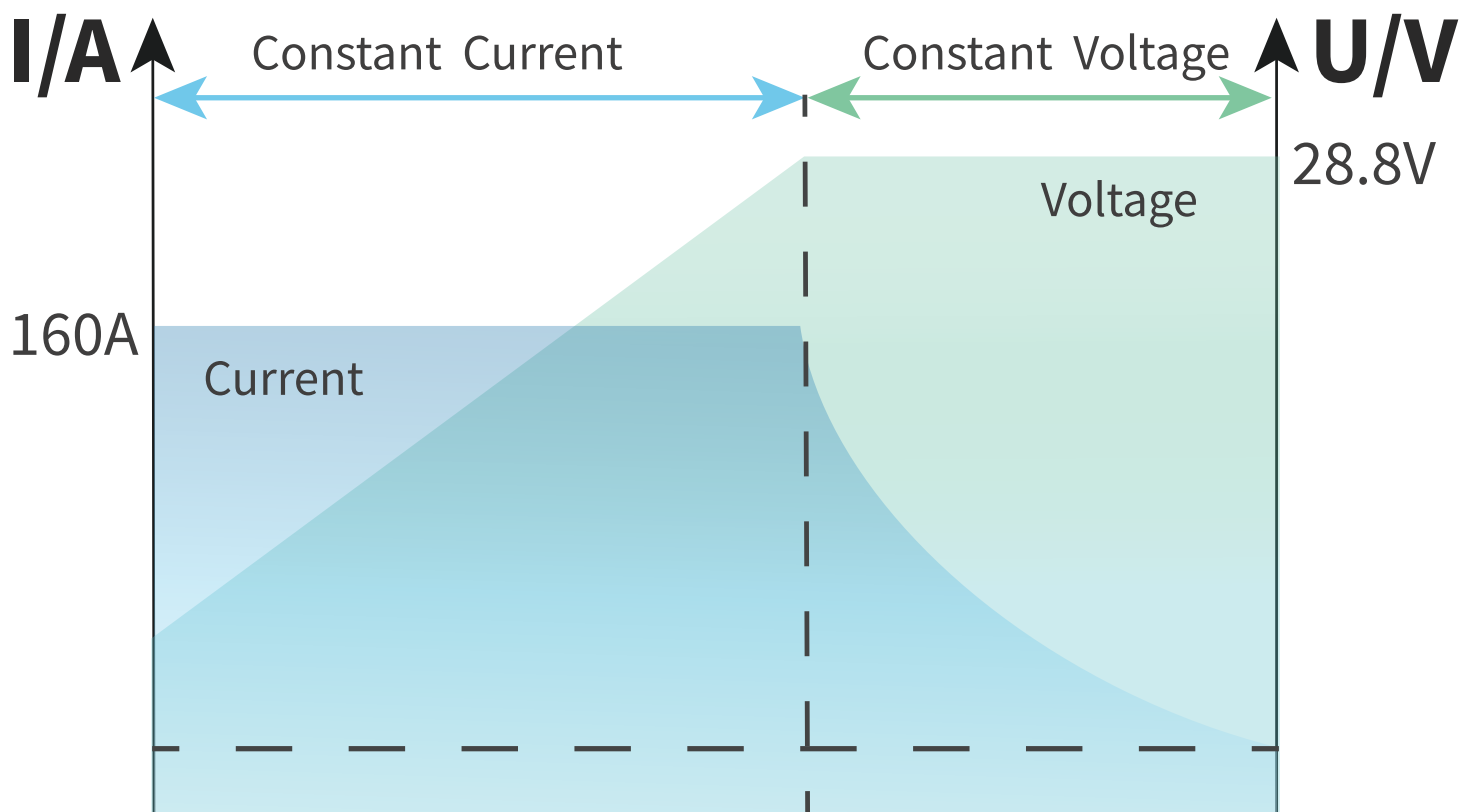
Table 1

Battery Charging and Discharging Logic

The battery may be received at a partial state of charge (SOC) depending on the time between manufacturing and shipping. It is crucial to fully charge the battery before its initial use. In case the battery shuts off due to low SOC, promptly disconnect it from loads and charge it to prevent irreversible damage. Follow the instructions in this user manual for proper charging and usage to ensure optimal battery performance and longevity

■ Charging Logic

The standard charging process for the battery involves charging at a constant current of 160A until the battery voltage reaches 28.8V, followed by charging at a constant voltage of 28.8V while tapering the charge current. The charging process is considered complete when the charge current is less than 16A (also known as tail current). The standard charging process typically takes 2.5 hours and requires battery temperatures to be between 32°F and 131°F (0°C and 55°C) for safe charging. Leaving the battery on float will continue to balance the battery cells without damaging the battery.



- ❗ Lithium batteries are compatible with various charging methods, including MPPT charge controller, AC charger, and DC-DC charger. The crucial parameter setting for these chargers is to set the charge voltage, boost voltage, or bulk voltage at 28.8V (± 0.2 V).
- ⚠ Do not overcharge or over-discharge the battery.
- ⚠ Do not discharge the battery at high temperatures above 140°F (60°C).
- ⚠ Only charge the battery with a battery charger or charge controller that is compatible with lithium iron phosphate batteries.
- ⚠ Do not exceed the maximum continuous charge current (160A) of the battery. (When using a single unit).

■ Discharging Logic

During standard discharging, the battery is discharged at a constant current of 160A until the voltage drops to 20V. To ensure safe discharging, the battery temperature should be between -4°F (-20°C) and 131°F (60°C).

- ❗ To ensure safe and optimal battery usage, it is recommended to pair the battery with discharge equipment that features a low voltage disconnect (LVD) function.
- ⚠ Do not connect large loads to the battery when it is running low.
- ⚠ When the SOC of the battery is >30%, the maximum discharge current can be based on the parallel number of batteries *200A. When the battery's SOC $\leq$ 30%, it can only support 160A discharge.

SOLAR PANEL(S)& CONTROLLER

■ Solar Panel

★ **Recommend Power:** $\geq 1800\text{W}$ (When using a single unit)

● The battery can be fully charged in one day (with effective sunshine 4.5 hrs/day) by 1800W solar panels.

● It may take more than one day to fully charge the battery by $> 1800\text{W}$ solar panels since the duration and intensity of light would be a great factor for their charging efficiency.

■ Controller

★ **Recommend Charging Current:**

64A (0.2C)	The battery will be fully charged in around 5hrs to 100% capacity.
100A	The battery will be fully charged in around 3.5hrs to around 97% capacity.

★ **Recommend Power:** **24V(25.6V) LI (LiFePO4)**

■ Controller Settings

★ **Recommend Power:** $\geq 1800\text{W}$ (When using a single unit)

We recommend configuring the following parameters exclusively for LiFePO4 batteries. Settings for other battery types are not applicable to LiFePO4 batteries, except for the settings listed below.

CHARGING	Charge Voltage	28.4~28.8V
	Over Voltage Disconnect	28.8V
	Over Voltage Reconnect	27.6~28.4V
	Tail Current	16A (0.05C)
DIS-CHARGING	Under Voltage Warning	23.2V
	Under Voltage Recover	22~23V
	Low Voltage Disconnect	20V

BATTERY CHARGER

Use 28.8V lithium iron phosphate (LiFePO₄) battery charger to maximize the capacity.

★ **Recommend Charging Voltage:** Between 28.4V to 28.8V

★ **Recommend Charging Voltage:**

64A (0.2C)	The battery will be fully charged in around 5hrs to 100% capacity.
100A	The battery will be fully charged in around 3.5hrs to around 97% capacity.

■ Tips

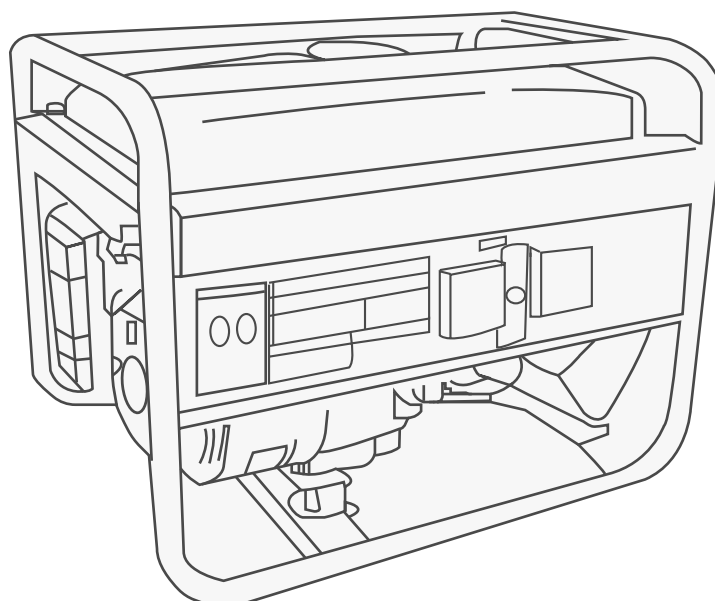
- Connect the charger to the battery before connecting it to the grid power in case of sparks.
- It's recommended to disconnect the charger from the battery after fully-charged.

ALTERNATOR/GENERATOR

Ampere Time battery can be charged by an alternator or generator, and it needs to connect a DC to DC charger between the battery and the alternator or generator.

★ **Recommend Charging Voltage:** Between 28.4V to 28.8V

64A (0.2C)	The battery will be fully charged in around 5hrs to 100% capacity.
100A	The battery will be fully charged in around 3.5hrs to around 97% capacity.



INVERTER SETTINGS

METHOD ONE(RECOMMEND)

Select “24V(25.6V) LI (LiFePO4) Mode”

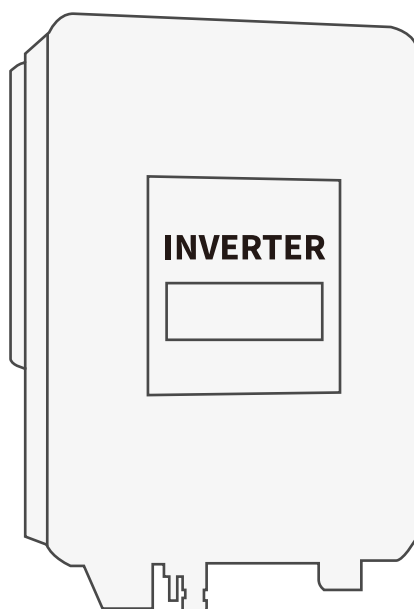
METHOD TWO

if method one is not available, select “User Mode” to enter values, according to below parameters.

CHARGING	Charge /Bulk/Boost Voltage	28.8V/29.2V
	Absorption Voltage	28.8V/29.2V
	Over Voltage Disconnect	30V
	Over Voltage Reconnect	28.4V
	Tail Current	16A(0.05C)
DIS-CHARGING	Under Voltage Warning	23.2V
	Under Voltage Recover	24V

The above setting parameters apply to common inverters on the market (such as Victron, Growatt, Xantrex, Go Power, Lux Power, etc.) Different brands have slightly different descriptions or naming methods for each parameter, Please directly set the parameters with the same meaning.

If the inverter parameters to be set are special or cannot correspond to one of the above items, please contact _____ for confirmation.



To Estimate the Battery SOC

The SOC values listed below are estimated based on the open circuit voltage when the battery is at rest for 30 minutes, not in charging or discharging state.

SOC	Open Circuit Voltage	SOC	Open Circuit Voltage
100%	27.00V	40%	26.30V
99%	26.80V	30%	26.10V
90%	26.70V	20%	26.00V
80%	26.60V	14%	25.60V
70%	26.50V	9%	25.50V
60%	26.46V	5%	25.00V
50%	26.40V	0%	23.20V

! The table above is for reference only because slight variations in battery voltage may occur among different batteries.

Troubleshooting

Problem	Possible Causes	Solution
The battery is unable to be activated with a charge/discharge current greater than 1A The battery is activated at open circuit voltage below 20V	Severe battery over-discharge due to self-discharge or parasitic loads	Revive the battery with a battery charger or charge controller featuring lithium battery activation or force charging
The battery shuts off due to under-voltage protection.	The battery voltage drops below the preset threshold.	Disconnect the battery from loads, and charge the battery with a current greater than 1A as soon as possible.
The battery cuts off the charging current due to over-voltage protection.	The battery cuts off the charging current due to over-voltage protection.	1. Disconnect the battery from the charging source. 2. Reduce charge voltage by 0.2V to 0.4V for 6 hours 3. Attempt to fully charge the battery again with the correct voltage setting. If the problem persists with a lithium iron phosphate

		compatible charging source and correct voltage setting, repeat the above steps.
The battery temperature gets too high/low during operation and triggers high/ low temperature protection.	The battery temperature exceeds the preset threshold.	1. Disconnect the battery from the charging source or loads. 2. Cool down/Warm up the battery. 3. The battery recovers from high/low temperature protection automatically and continues operating.
Short circuit protection is triggered	Short circuit occurs in the battery.	1. Remove the short circuit as soon as possible 2. Charge the battery with a current greater than 1A.
Charge/Discharge over-current protection is triggered due to too high current passing through the battery.	Excessive current flows through the battery during charging or discharging.	Disconnect the battery from the charging source or loads as soon as possible.

 For further assistance, contact WEIZE technical support service at

SOLAR PANEL(S) & CONTROLLER

■ Inspection

Please perform regular inspections following the steps below:

- Examine the external appearance of the battery. The housing and terminals of the battery shall be clean, dry, and free of corrosion.
- Check battery cables and connections. Replace any damaged cables and tighten any loose connections.

! In certain application scenarios, corrosion may occur around the terminals. Corrosion can cause increased resistance and poor contact. It is recommended to regularly apply insulation grease to each terminal. Insulation grease can form a moisture-resistant seal and protect the terminals from corrosion.

■ Cleaning

Please clean the battery at regular intervals following the steps below:

- Disconnect the battery from the system.
- Clear the leaves and debris from the battery.
- Clean the battery with a soft, lint-free cloth. The cloth can be dampened with water or mild soap and water if the battery is extremely dirty.
- Dry the battery with a soft, lint-free cloth.
- Keep the area around the battery clean.
- Reconnect the battery to the system.

! In certain application scenarios, corrosion may occur around the terminals. Corrosion can cause increased resistance and poor contact. It is recommended to regularly apply insulation grease to each terminal. Insulation grease can form a moisture-resistant seal and protect the terminals from corrosion.

■ Checking Voltage

Please check the battery voltage periodically to assess battery health. If the battery is unable to be activated with a charge/discharge current greater than 1A or the battery is activated with an open circuit voltage below 10V, the battery may have been severely over-discharged due to self-discharge or parasitic loads. Please stop using the battery until the fault can be corrected and the battery can be charged.

■ Storage

Please follow the tips below to ensure that the battery emerges from storage in a good condition:

- Charge the battery to 30% to 50% SOC.
- Disconnect the battery from the system.
- Store the battery in a well-ventilated, dry, clean area with temperatures between -13°F (-25°C) and 149°F (65°C).
- Do not expose the battery to direct sunlight, moisture, or precipitation.
- Handle the battery carefully to avoid sharp impacts or extreme pressure on the battery housing.
- Charge the battery at least once every 3~6 months to prevent it from over-discharge.
- Fully charge the battery when it is taken out of storage.

■ Important Safety Instructions

MOTTCELL accepts no liability for any damage caused by:

- Force majeure including fire, typhoon, flood, earthquake, war, and terrorism.
 - Intentional or accidental misuse, abuse, neglect or improper maintenance, and use under abnormal conditions.
 - Improper installation, improper operation, and malfunction of a peripheral device.
 - Contamination with hazardous substances or radiation.
- Alterations to the product without express written consent from the manufacturer.

FCC Statement

■ Inspection

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- (1) Reorient or relocate the receiving antenna.
- (2) Increase the separation between the equipment and receiver.
- (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- (4) Consult the dealer or an experienced radio/TV technician for help.



FCC ID: 2BOVI-MOTLFP256

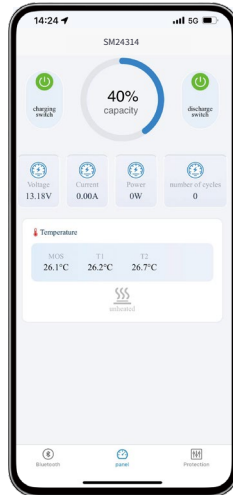
FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Connect the APP via Bluetooth to check the battery status (if your battery has this function)

Step 1:

Download the SMB Link app. Login to the app with your account.



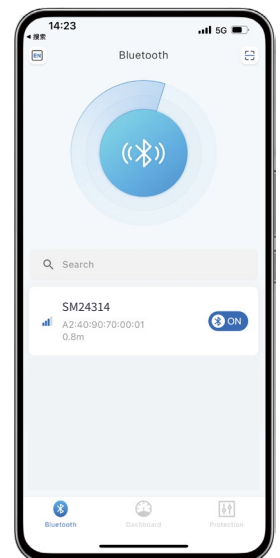
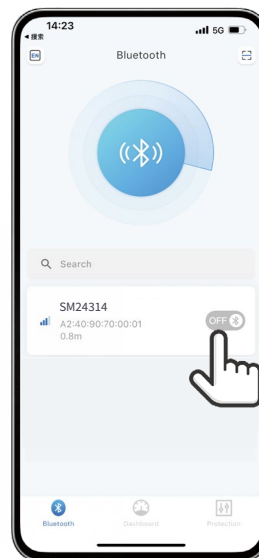
Search SMB Link

GET IT ON
Google Play

Download on the
App Store

Step 2:

Pair the battery with the SMB link app. Monitor the parameters of the battery via the app.





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