



LITHIUM IRON Phosphate Battery

Before operating this unit, please read the USER MANUAL carefully to get the most out of the device.

## 12.8V 230AH

SPECIFICATIONS

- Battery Type: Lithium iron phosphate battery(LIFEPO4)

- Model: 12.8V 230AH

- Battery capacity: 12.8V 230AH(2944WH)

- Input voltage: 14 4+0 2V

- Output voltage/current: 12.8V 150AH

- Peak current: 300A@10S

- Life cycle: > 4000 Cycles @ 0.5C Charge/Discharge at

- Operating Temperature: -20°C~60°C

- Dimension: 384x250x194 mm

 Longer Cycle Life: Offers up to 20 times longer cycle life and five times longer float/calendar life than a lead acid battery helping to minimize replacement cost and reduce the total cost of the owner.

FEATURES OF LIFEPO4 BATTERY

· Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid hatteries

. Higher Power: Delivers twice the power of a lead acid battery, even high discharge rate while maintaining high energy canacity

Superior Safety: Automatic protection with an internal battery management system. Lithium Iron

· Wider Temperature Range: -20°C-60°C.

Telecommunication: Medical equipment: Lighting.

Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging, or short circuit situations

Electric vehicles, electric mobility: Solar/wind energy storage system: UPS, backup power:

 Increased Flexibility: Modular design enables deployment of up to four batteries in series and up to four. batteries in parallel.

2. APPLICATION

100%DOD, End of Life 80% Capacity

- Weight: 20.25 KG

# 3. HOW TO USE THE PRODUCT

1. Ensure the area around your battery cover is clean and free from sediment.

2 Remove the lock and frame (where applicable) from the cover

3. Remove the covers from the battery compartment to gain access to the batteries.

4. Remove the positive (Red) terminal and the negative (Black) terminal from the old battery.

5. Return the negative terminal (Black) & then the positive terminal (Red)

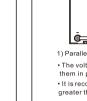
6. Return any flaps or covers back into their original position and ensure that they are locked in place.

7 Replace the cover and locks

8. Your battery is ready to use.

Solutions to general failures of lithium iron phosphate batteries:

4. TROUBLESHOOTING



5.1 Parallel connection batteries

### 12.8V/CAPAC

Disassemble or modify the battery is forbidden.

2. Do not reversely connect or short-circuit the positive and penative notes of the hattery do not mix th battery with metal objects avoid short circuit from metal objects touch the positive and negative 5.2 Rattery in series electrodes of the battery, damaging the battery or even causing danger.

3. It is strictly forbidden to immerse the battery in sea water or throw it into fire

5. WARNING & TIPS

THE BATTERY PACK

DISCHARGED PROPERL

THE BATTERY PACK CA

BE CHARGED PROPERL

THE BATTERY HEATS

4. It is strictly prohibited to use chargers that do not meet the requirements for charging.

5. Avoid frequent overcharging. Overcharging will cause the internal temperature rise and harmful to the lithium-ion battery and charger.

ECK WHETHER THE BATTERY CONNECTION IS LOOSE OR NOT

4AKE SURE THE BATTERY TERMINAL POSTS WERE CONNECTED

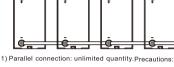
3.SWITCH OFF THE LOAD AND SWITCH ON AGAIN AFTER 3 SECONDS

INITY CONNECT TO ELECTRIC APPLIANCES WITH COMPATIBLE INDUIT

AVE SLIDE THE ADDI SANCE CONNECTED ADE COMPATED E AND

CONNECT THE BATTERY PACKS CORRECTLY AND FIRMLY

E CHARGERS WITH COMPATIBLE OUTBUT



PARALLEL AND SERIES BATTERIES

 The voltage difference between batteries before putting. them in parallel should not be more than 0.1v.

• It is recommended that the maximum charger current is not greater than the maximum charging current of each battery.

CAPACITY OF PARALLEL BATTERY	BATTERY NUMBERS	CHARGE	DISCHARGE
		LIMITED VOLTAGE	CUT-OFF VOLTAGE
12.8V/CAPACITY*1	1 PCS	14.4 V	8.8V
12.8V/CAPACITY*2	2 PCS	14.4V	8.8V
12.8V/CAPACITY*3	3 PCS	14.4 V	8.8V
12.8V/CAPACITY*4	4 PCS	14.4V	8.8V



### 1 Open Play Store find the APP "xiaoxiang electric" install the APP in your cellphone, allow the permits requested anytime in the

Voltage battery calibration with APP

process. The application icon is the blue elephant like the one in

2.Turn ON the Bluetooth in your cellphone, open the APP, you

3. Now you will be on the "device list" page, in case it is not there

you can click above on the screen where it show "device list" the

next photo shows the 2 possible screens where you could arrive

and where you should click if you are in the second photo

Uninstall

What's new .

register; email, password, code, enter register.

should use these credentials user:

DP045007L45100A DP045007L45100A

login; email, password, code.

Last updated May 24, 2023

the following image:

there is a single battery there will only be one option, but if it is close to several batteries the list could be long.



4 You must choose one of the batteries that annears on the list if

In the vellow boxes that we have drawn, is the strength of the Bluetooth signal of each battery the closer to O the battery is closer to the cell phone and the more negative the number means that the battery is further away from the cell phone.

To find out which battery is the one of your interest, you can take that battery and move it about 15 meters away from the Jothers (if this is not possible, you can try putting the cell phone as close as possible to the battery of interest). This way you can see that the battery closest to the cell phone is the one with the strong warning and with the negative number closest to zero.



In this example the battery that shows -66 is the closest, click, and the new menu appears. 5. Here you will be able to see the real-time information of the

V Seeker & Control of Stoom

G 100 O 100 O 100

battery until it is fully charged, at which point the state of charge

will show 100%, this may take several hours, and it will depend

Author (B) Contribut

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on the charging current.

battery, the first time the battery is connected it may not show a true charge capacity value, like in this photo which shows 0%charge, (SOC state of charge).



At this moment the battery will show the real state of charge, SOC. that it has, in the RT (Real Time) tab.

7.Go to the CONTROL tab, a "Voltage Calibration" icon appears



After this calibration the voltmeter and the battery display should

This value could be an approximation and as shown above, the battery would have to be charged to 100% to achieve a more accurate measurement. You will only have to do this the first time you use the battery, going forward after this calibration, the battery will display the correct values.

6 The other way to calibrate the state of charge of the battery is

by going in the menu that points the green arrow to the

"CONTROL" tab. There you click on "Reset Canacity" (grange

arrow) and the battery will recover the value of its state of charge.



Display Voltmeter New "Set" 3000 \_\_\_\_\_ 3207 ....

8 There a calibration menu opens for the 4 cells, they must be

calibrated one, by one. That is, you write in a single box and click

1th string voltage 3306mV

2th string voltage 3305mV

3th string voltage 3307mV

4th string voltage 3308mV 3408 Set

The batteries are balanced, so you must divide the total battery

difference by 4.For example, if the voltmeter shows 13.62 and the

display shows 13.22, there is a difference of 400mV, then 100mV

total 13.22 13.62 13.62

"Set", repeat the same thing 4 times.

is increased for each measurement.

be showing the same value.