

VOLTXX

POWER. ANYWHERE, ANYTIME.

USER MANUAL

12V 200Ah LiFePO4
Lithium Battery

Authentic

Reliable

Quality

LIVE LIFE
FULLY
CHARGED



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SPECIFICATIONS

WHAT'S IN THE BOX

- » 1 X User manual
- » 1 X 12V 200Ah LiFePO4 Lithium Battery

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- » Download manuals
- » Access to tools and tips
- » Troubleshooting your battery
- » Detailed battery specifications



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SAFETY



**CAUTION: RISK OF FIRE,
EXPLOSION OR BURNS.**

- » DO NOT Short circuit
- » DO NOT Reverse connections from charger to battery
- » DO NOT Disassemble
- » DO NOT Throw into fire or incinerate
- » DO NOT Heat above 60°C
- » Discontinue charging your battery if you see smoke or swelling.
- » Never leave your battery unattended at any time when being charged or discharged.
- » Do not expose the battery to moisture or water.

TIPS

- » It is highly advisable to invest in a dedicated Low Voltage Disconnect (LVD) to safeguard your battery from being discharged to a low voltage, which can negatively affect its lifespan. In the event that an LVD is not available, the battery must always be adequately charged to prevent over-discharge.
- » The voltage of a LiFePO₄ battery measured during the charging process is not a reliable indicator of its actual voltage. To obtain an accurate measurement, it is recommended to let the battery rest for 15 minutes before testing its voltage.

CHARGING RECOMMENDATIONS

NOTE: Use a 14.6V lithium AC to DC or DC to DC battery charger to maximise the battery's usable capacity.

DO NOT USE A LEAD ACID VEHICLE BATTERY CHARGER.

You won't be able to fully utilize the battery's usable capacity if you use an inappropriate charger or charge it at a lower voltage.



When charging, don't set the charger to a voltage greater than the battery's nominal voltage, as it may permanently damage the battery.

1. Ensure the battery cables are tight, secure and have a good connection.
2. Follow the instructions on the battery charger.

You can also charge the battery using a solar panel and a compatible regulator with a lithium profile (select LiFePO4 mode on solar regulator).

We recommend setting the solar regulator to the following parameters:

- » Overcharge Protection Voltage: 14.4V
- » Overcharge Recovery Voltage: 14V
- » Over-discharge Protection Voltage: 10.8V
- » Over-discharge Recovery Voltage: 11.2v

The battery should not be charged directly through a vehicle's alternator.

BATTERY RE-ACTIVATION

HOW TO RE-ACTIVATE A BATTERY THAT NO LONGER CHARGES

The over-discharge protection voltage for this battery is set at 10V, and if the voltage drops below this level, the Battery Management System (BMS) will trigger a safety cutoff to protect the battery.

In such an event, you must follow the reset procedure for the battery as outlined below:

METHOD 1 (EASY)

1. Disconnect the load from the battery and set it aside for at least 30 minutes.
2. The battery should recover to a normal voltage level automatically
3. The battery can then be fully charged for normal use.

It is important to note that in some cases, METHOD 1 may not be sufficient, and you may need to proceed with METHOD 2 or METHOD 3 to reset the battery.

METHOD 2 (REQUIRES A CHARGER WITH 0V FUNCTION)

1. Use a charger equipped with a 0V charging function.
2. Charge the battery fully using this charger on its 0V setting.
3. Once the battery is fully charged, the BMS will reset automatically.
4. The battery can now be used as normal.

METHOD 3 (REQUIRES A SECOND BATTERY)

1. Connect the battery in parallel with another fully charged 12V lithium battery.
2. Allow the battery to charge in parallel for at least one minute.
3. Disconnect the second battery and charge your battery fully using a regular lithium battery charger.
4. Once fully charged, the BMS will reset automatically, and the battery can be used normally.

A lead-acid battery with a voltage more than or equal to 12V and less than or equal to 14.6V will also work.

LONG-TERM STORAGE

To prolong the battery's lifespan, it is advisable to store it at an 80% charge level.

- LiFePO₄ batteries have a low self-discharge rate of 2% per month.
- To prevent excessive discharge during storage, store LiFePO₄ batteries at an 80% state of charge (SOC) if storing for longer than six months.
- Failure to charge the battery before storage can cause over-discharge, resulting in the battery's discharge level falling below the protection level of the BMS.
- It is strongly recommended to store the battery at room temperature, particularly for extended storage periods.

Cycling through the battery power every 6 months is an excellent way to add to the longevity of your battery.

To cycle through the battery's power:

1. Connect the battery to an appliance and allow it to discharge without reaching the over-discharge voltage level.
2. Charge the battery until it reaches 100%.
3. Reconnect the battery to an appliance and discharge it to reduce its charge level back to 80% before storing.



**Store the battery in a fireproof container
Keep out of reach of children**

SPECIFICATIONS

Nominal Capacity	200Ah
Usable Capacity	200Ah
Nominal Voltage	12.8V
Energy	2560wh
Charge Voltage	14.6V
Discharge Cut-off Voltage	10V
Charge Method	CC/CV
Charger	14.6V50A
Standard Discharge Current	100A
Max. Continues Discharge Current	150A
Max. Discharge Current 5 Sec	450A
Standard Charge Current	50A
Max. Charge Current	100A
Dimensions	L: 552 x W: 110 x H:290mm
Working Temperature Range	Charge 0°C to 45°C, Discharge: -20°C to 60°C
Storage Temperature	-10°C to 50°C

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