



PowerXtreme

Proud experts in LiFePO4 batteries!

User Guide

PowerXtreme X60 LiFePO4 Battery 12V 60 Ah



PowerXtreme

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Preface

This manual is intended for installers and users of the battery. Read and understand this manual carefully before installing, using or maintaining the battery. Only qualified personnel should install and maintain the battery. Improper use, other than described in this manual, may lead to dangerous situations and will void the warranty. Keep this manual in a safe place near the battery, so it is easily accessible in the future.

Target audience

This manual is intended for the individuals who install and/or use the battery.




Relevant documentation

The following documentation is available for the battery pack:


Document	Location
User Guide	This document
E04-X60-ENxx_MSDS Material Safety Data Sheet	See our website (www.emergoplus.com)

Used Symbols

Safety information is indicated using various risk levels. Refer to the table for the definition of the safety symbols in this manual:

Symbol	Definition
 DANGER	Indicates a situation that, if safety instructions are not followed, will result in serious injury or death
 WARNING	Indicates a situation that, if safety instructions are not followed, could result in serious injury or death
 CAUTION	Indicates a situation that, if safety instructions are not followed, could result in minor or moderate injury
NOTE	Indicates a situation that, if safety instructions are not followed, could result in battery damage

Other symbols in this manual are not related to safety. See the table below for the meaning of the other symbols in this manual:

Symbol	Meaning
 Tip!	Information useful to some readers

1 Introduction

1.1 Intended Use

This battery is designed as a power source for a 12 VDC system. A maximum of 4 batteries of the same model can be connected in parallel.

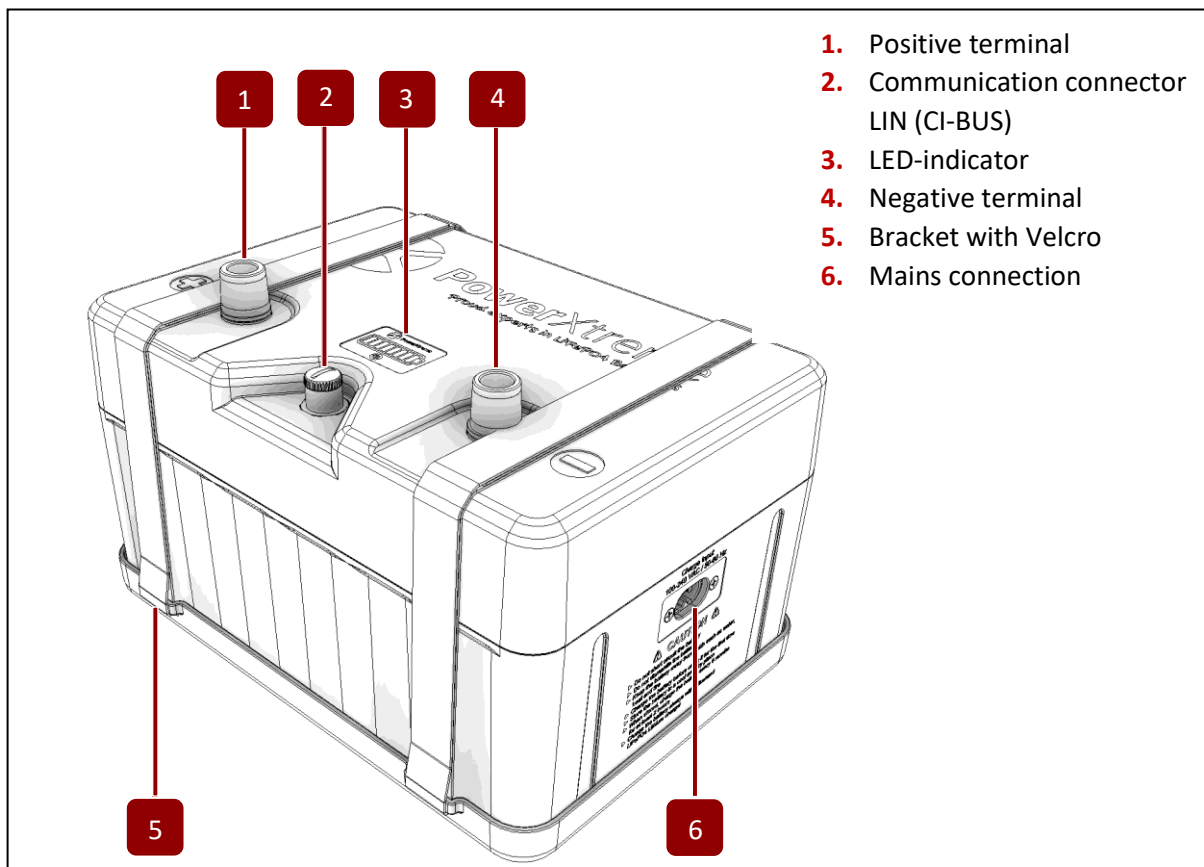
This battery is not intended as a starter battery.

Any use of the battery other than as described in this manual is considered unintended use and will void the warranty.

2 Product Description

The PowerXtreme X60 is a lithium iron phosphate battery, also known as LiFePO4 or LFP. The battery is highly suitable for installation in vehicles or vessels as an onboard battery, but can also be used unmounted. It is easy to install and is protected by an integrated Battery Management System (BMS) against overloading, overvoltage, undervoltage, temperature fluctuations and short circuits.

2.1 Main Components



2.2 Key specifications

General

Model	PowerXtreme X60
Cell chemistry	LiFePO4 (Lithium Iron Phosphate)
Lifespan	Minimum 3000 charge cycles (at 80% DoD)
Dimensions	257x179x142 mm
Weight	7,7 kg
Connection	Poles with M6 female thread
IP-rating	IP 62

Input (charging)

Input (charging)		
Charging voltage		14,4 - 14,6 V
Charging method		CC-CV
Built-in charger	Input voltage	100 – 240 VAC
	Input frequency	50 – 60 Hz
	Charging current	6 A
External charger	Maximum charging current	55A (Via battery terminals)

Output (discharging)

Nominal voltage	12,8 V
End of discharge voltage	10,5 V
Capacity	60 Ah / 768 Wh
Nominal continuous current	150 A / 1800 W
Short-term current (max. 30 sec.)	< 200 A
Peak current (max. 3 sec.)	< 300 A

Battery temperature specifications

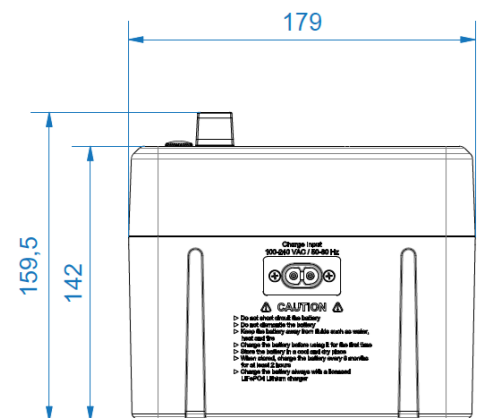
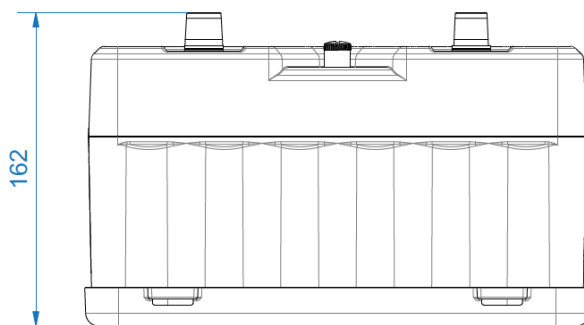
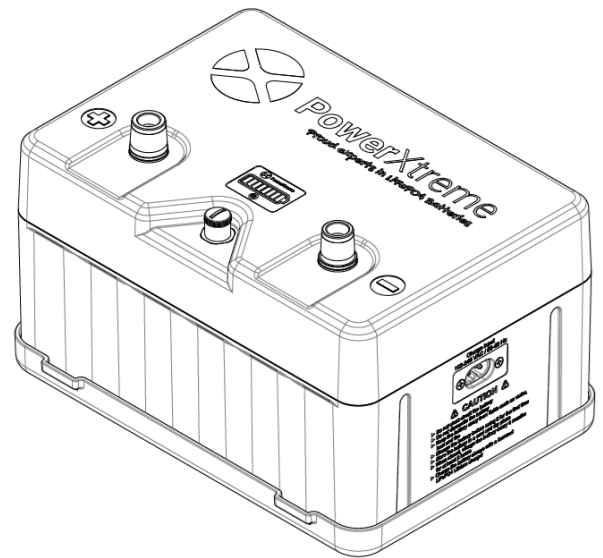
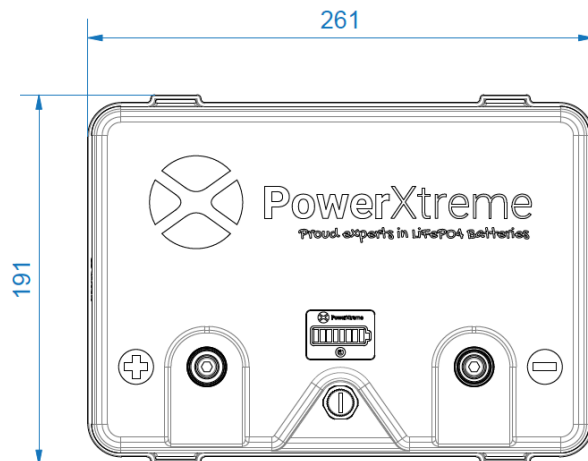
Charging temperature	0 – 45 °C
Discharging temperature	-20 – 60 °C
Storage temperature	-10 – 45 °C

If the battery temperature is outside the specified limits, the battery will not charge or discharge.

Safety and certification

Internal protection	Overcurrent
	Overvoltage and undervoltage
	Short circuit
	Protected against high and low temperatures
Certification	UN38.3/ MSDS/ CE/ UN ECE R10.06

2.3 Dimensions



3 Safety

3.1 Safety Features

The following safety features have been incorporated into the design of the battery:


- The integrated **battery management system** (BMS) protects the battery against overload, overvoltage, undervoltage and short circuit. In addition, The battery switches off automatically if the temperature is outside of the operating range.

NOTE

Risk of battery damage. If the battery remains in a discharged state for an extended period of time, it may become permanently damaged. The battery is protected against undervoltage; however, if it is stored while empty, it may become deeply discharged due to self-discharge. When the battery is stored or not in use, the self-discharge rate is approximately 3% per month.

3.2 Safety Symbols on the Battery

The following safety symbols are visible on the battery:

Symbol	Definition
	Do not keep near an open flame.

3.3 Safety Instructions

DANGER

Explosion danger! When connecting or disconnecting the battery, sparks may occur, which can ignite flammable substances.

Never use the battery in the presence of flammable gases or substances.

WARNING

The battery can deliver high currents, posing a risk of electric shock:

- Pay attention to polarity when connecting the cables. Never connect the cables to the wrong terminal.
- Never touch both battery terminals at the same time.
- Prevent unintended contact between conductive objects and the terminals.
- Do not submerge the battery in water or any other liquid.
- Keep the battery away from children and animals.
- When installing multiple batteries in parallel, only combine batteries of the same model and capacity.

⚠ WARNING

The electrolyte in the cells is highly corrosive. In case of damage or improper use, the battery may leak. A leaking battery can cause injuries and is harmful to the environment:

- Avoid damage to the battery housing.
- Do not expose the battery to aggressive chemicals.
- Do not use the battery if it is damaged or defective.
- Do not disassemble or shred the battery when disposing it.
- Do not expose the battery to temperatures higher than 65°C or fire.
- Never touch the electrolyte.
- If you come into contact with the electrolyte, rinse thoroughly with plenty of water and seek medical attention.

NOTE

Risk of damage to the battery. Salty water causes corrosion on the terminals:

- Do not expose the battery to salty water or other corrosive liquids.

NOTE

Risk of damage to the battery. Incorrect use can cause damage to the battery

- Do not use the battery as a starter battery.
- Never connect the battery in parallel with a different type of battery, such as directly to the wiring of a vehicle. Always use a charging system for this purpose.

NOTE

Risk of damage due to overheating:

- Keep the battery away from dust and dirt, and place it in a well-ventilated area. Never cover the battery with clothing or other flammable materials.
- Do not place the battery in the engine compartment or any other location where temperatures may rise significantly.

NOTE

Incorrect use can result in a shorter lifespan of the battery:

- Do not leave the battery connected to the charger for an extended period of time when it is already fully charged.
- Check that everything is turned off before storing the battery.

4 Storage and Transport

4.1 Storage


Only remove the battery from its original packaging when you use it. When storing a (used) battery for an extended period of time (such as during winter storage), store it as follows:

1. If the battery is installed in a vehicle or vessel, it can remain in place.
2. Charge the battery to at least 80% (see section 6.1).
3. Ensure that the battery does not discharge during storage. This can be done in one of the following ways:
 - Disconnect all wiring from one terminal:
 - If available, turn off the main switch:
 - Place the battery in storage mode* (see chapter 6.3.1).
4. Ensure that the environment around the battery meets the following conditions:
 - Clean and dry.
 - Temperature between -10 to +45 °C.
 - Humidity < 80% (non-condensing).
5. Charge the battery to at least 80% every six months to keep the battery in optimal condition.
6. Cover both terminals to prevent short circuits.

* In storage mode, the battery can be charged but not discharged.

NOTE

Risk of battery damage. If the battery remains in a discharged state for an extended period of time, it may become permanently damaged. Although the battery is protected against undervoltage, storing it while empty can lead to deep discharge due to self-discharge. When the battery is stored or not in use, the self-discharge rate is approximately 3% per month.

 **Tip!** Switch off all devices on the LIN bus to prevent unwanted standby power consumption.

4.2 Transport

WARNING

The battery is heavy and can become a projectile in the event of a collision if not properly secured. During transport, the battery must always be securely fastened so that it cannot move. If possible, transport the battery in its original packaging. To prevent damage or injury use fastening materials and ensure that the battery does not come into contact with other objects. Transport is defined here as the act of moving the battery from one location to another, other than when the battery is in use.

NOTE

Risk of legal violation. Some regulations may impose restrictions on the transportation of this battery:

- Always check the local applicable regulations.
- Check for any additional regulations when transporting a damaged battery.

The transportation of a lithium battery falls under hazard class UN3480, class 9, and packaging class P965, Chapter II.

5 Installation

5.1 General

The following is important for the installation of the battery:

WARNING

Always use the correct wiring with sufficient cross-sectional area and properly sized cable lugs or battery clamps (to ensure no overheating or unnecessary losses occur). Always use the proper crimping tools to attach the cable lugs and follow the instructions from the cable lug manufacturer.

WARNING

Fire hazard! If the contacts are not properly secured to the terminals, this may cause sparks or the terminals may become very hot. Always tighten the contacts (M6 bolts) securely to the terminals. We recommend using a torque wrench (M6, 10 Nm).

WARNING

Never install batteries in series.

NOTE

Risk of short circuit. If the battery is directly connected to a starter battery and alternator, high currents may flow through the battery and wiring, potentially causing the wiring to melt or catch fire. Always use a charge booster when charging the battery via the starter battery and alternator.

NOTE


If the supplied terminals are not used, it is important to consider the length of the bolts, which depends on the amount and thickness of the cable lugs used. To ensure a proper connection, the bolt must be screwed at least 5 mm into the terminal. The bolt must not be screwed more than 10 mm into the battery terminal connection. Using a bolt that is too long may cause irreversible damage.


NOTE


We recommend using electrogalvanized (ELVZ) M6 bolts if the supplied terminals are not used.

NOTE

There is a difference in the diameter of the (supplied) positive and negative terminals (positive = thick, negative = thin).

 **Tip!** Use a red cable for positive (+) and a black cable for negative (-).

 **Tip!** Install a fuse and a main switch in the power circuit in accordance with local regulations. Place the fuse as close as possible to the positive terminal of the battery.

 **Tip!** Enable storage mode when installing the battery.

5.2 Installation location

The installation location must meet the following requirements:

- Shielded from weather conditions.
- Sufficient ventilation for the battery.

NOTE

Do not install the battery with the poles facing down. The position shown in the image below is the only way the battery should not be installed.

i Tip! Keep a 10 cm clearance around the battery for optimal ventilation.



5.3 Contents of the Package

Check if all components are undamaged and present in the packaging. Refer to the table below for the contents.

Quantity	Part
1x	Battery
1x	Battery terminals (+ and -) with 2 mounting bolts
1x	Mounting bracket with Velcro
1x	4 screws for mounting bracket
1x	Interior sticker
1x	Power cord for charger
1x	Label with serial number and app password

Report missing or damaged parts to your supplier.

5.4 Fixing

WARNING

Risk of a dangerous situation! The battery can become a projectile in the event of an accident if it is not securely fastened. Always secure the battery when installing it in a vehicle.

The battery can be used either free-standing or fixed. If you do not wish to fix the battery, you may skip this section.

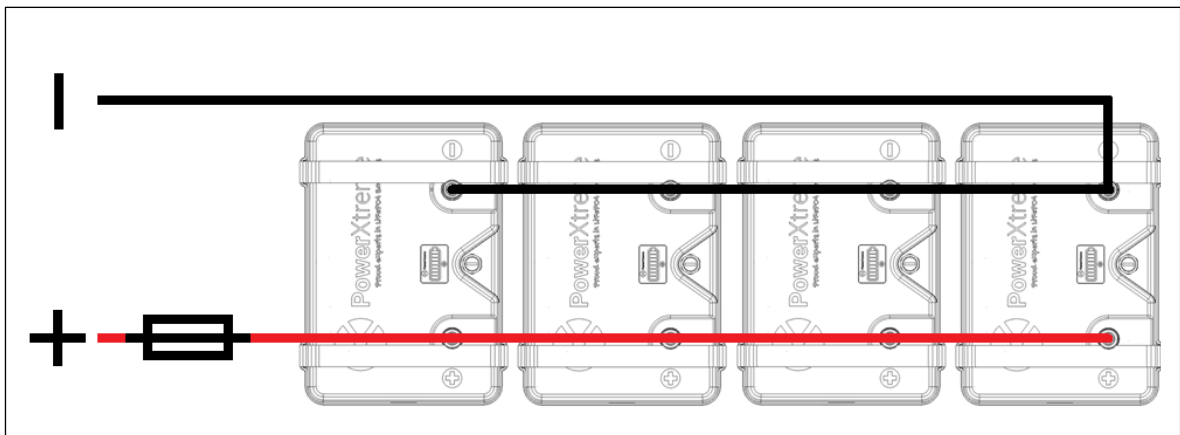
The surface on which you want to fix the battery must be strong enough to support its weight.

Secure the battery as follows:

1. Attach the bracket at the desired location. Use a mounting method suitable for the weight of the battery and the surface on which the battery is being installed.
2. Place the battery in the bracket and secure it with the Velcro strap.

5.5 Parallel Connection

To increase capacity, up to 4 batteries of the same model can be connected in parallel. Ensure that the voltage of the batteries is equal when connecting them (maximum difference of 0.5 V). If you wish to connect more than 4 batteries in parallel, please contact the supplier. The following illustration shows how the batteries should be connected in parallel.



NOTE

When connecting batteries in parallel, an external fuse must always be installed in the outgoing wiring. The fuse size depends on the specific application.

NOTE

When batteries are used in parallel, the wiring must be sized and specified according to the maximum current the parallel bank can deliver.

5.6 Charging Test after Installation

To verify that the battery and charger are correctly installed, it is important to perform several charging tests after installation. Fully charge the battery using the designated charger; the battery should reach a voltage between 14.4 and 14.6 volts and then enter Standby mode. This will be visible in the status overview of the app. Afterward, perform the same test using the booster and the solar panels. If the battery does not fully charge during any of these tests, it may indicate an incorrect setting in the installation.

5.7 Communication connector

The battery is equipped with a LIN interface (Local Interconnect Network). Through this interface, the battery can be connected to a LIN master, commonly found in (recreational) vehicles and caravans. The LIN interface enables the transmission of information such as the state of charge (SoC) and other data from the battery to the LIN master. To facilitate easy integration within the camper and caravan industry, the LIN bus protocol is configurable. The default activated option is the CI-BUS protocol. When this protocol is enabled, the LIN bus provides all necessary information for systems using the CI-BUS protocol. A 4.8 mm cable lug can be used for the connection.

6 Use

WARNING

Risk of electric shock! A battery can carry a large current:

- Never touch a terminal of a battery while it is connected.
- Never touch both terminals of a battery at the same time.

WARNING

Risk of injury! Using a damaged battery poses a danger to your health:

- Never use a damaged battery.
- Never touch any liquid that leaks from the battery.

6.1 Charging the Battery

You can use the supplied power cord to charge the battery. The procedure is as follows:

1. Insert the power cord into the battery's connection port.
2. Plug the power cord into the electrical outlet.

If you want to charge the battery with an external charger, you will need a battery charger. The shore power charger (booster and solar panels) must meet the following requirements:

- Suitable for LiFePO4 lithium batteries.
 - Charging voltage of at least 14.4 V and up to a maximum of 14.6 V.
 - Equipped with a restart charging function (pulse function).
 - CC-CV charging characteristic.
 - Stops charging when the battery is fully charged.

NOTE

If an external charger is installed, it is recommend always connecting the internal charger as well.

Tip! Do not keep the battery connected to shore power for more than 1 month.

NOTE

The battery will not start charging if the battery temperature is below 0 °C. (The battery is protected against this.)

NOTE

Risk of high currents. When the battery is directly connected to a starter battery and alternator, high currents may flow to and from the battery. Always use a charge booster when charging the battery via the starter battery and alternator.

To charge the battery with an external charger, follow these steps:

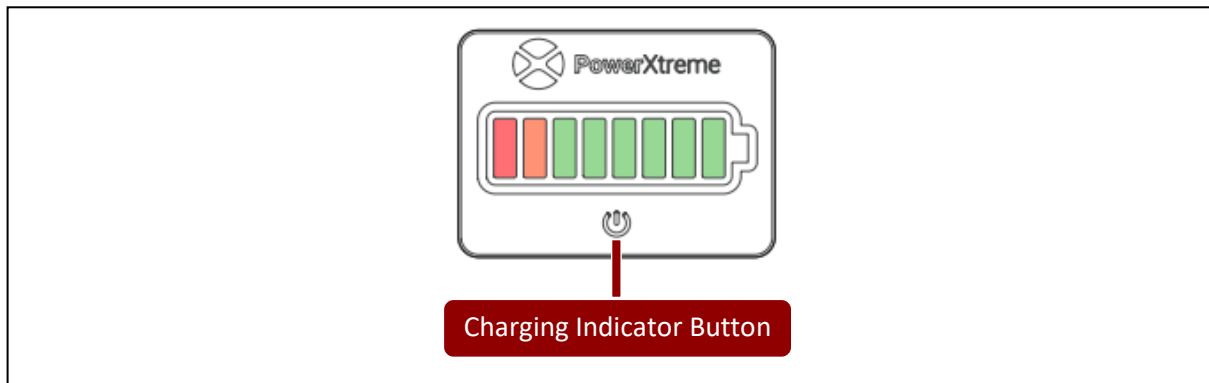
1. Connect the positive terminal of the charger to the positive terminal of the battery.
2. Connect the negative terminal of the charger to the negative terminal of the battery.
3. Connect the charger to the mains power by plugging it into an electrical outlet or connecting it to an integrated onboard system.

The battery can also be charged using solar panels. Follow the instructions in the solar panel user manual. Ensure that the charger used is suitable for lithium batteries.

Tip! The XS20s MPPT solar charger with solar panels from our product range is a highly suitable solar charger for this battery.

Tip! The battery can also be charged during long drives. The PowerXCharger XC3 is available as an optional charger for this purpose. Please follow the instructions in the XC3 user manual.

6.2 Explanation of the Charging Indicator

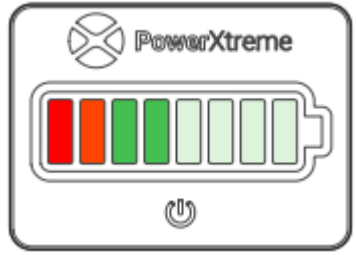
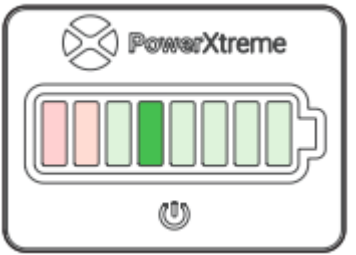


Use the charging indicator as follows:

1. Press the button on the charging indicator to check the battery status.
* This button cannot be used to turn the battery on or off.

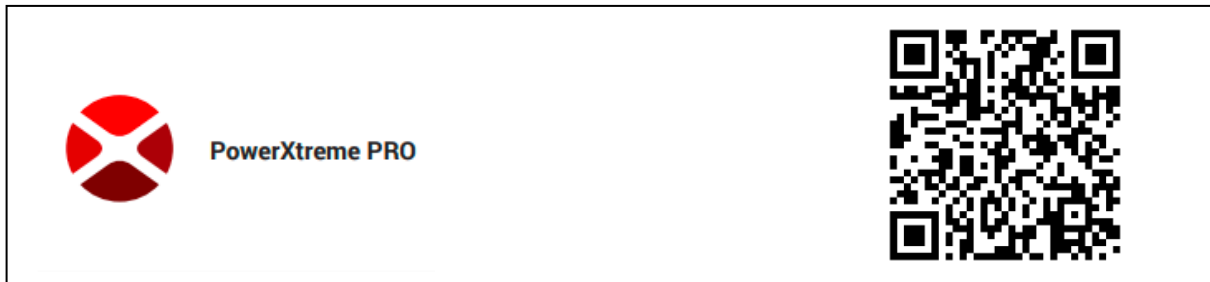
The battery status is displayed as follows:

- When the battery is not connected to a charger, the LEDs will light up until the LED indicating the current charge level.
- When the battery is connected to a charger, the indicator will light up fully and then briefly display the current charge level.

	
Current charge level	Current charge level (while charging)

6.3 PowerXtreme Pro App

In the PowerXtreme Pro app, you can check the status of your battery on your phone or tablet.



www.powerxtreme.eu/powerxtremeproapp

Use the app as follows:

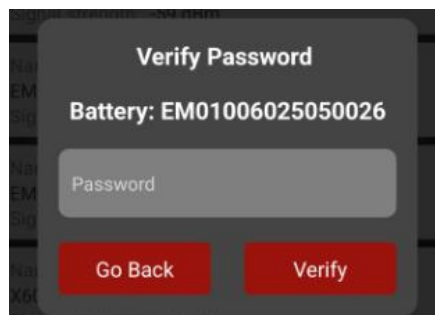
1. Download the app from the App Store or Play Store onto your device.
2. Turn on Bluetooth on your device.
3. On an Android device, enable location services.
4. Open the app.
5. If necessary, grant the app permission to use Bluetooth.

The main screen of the app will appear, displaying a list of all Bluetooth devices within 5 meters of your device.

6. Look for a name in the list with the following format: "EM*****".

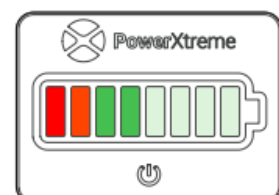
i Tip! If you have changed the Bluetooth name yourself, the battery will appear in the list under that name. Use the Refresh button if your battery does not appear in the list.

7. Select your battery.



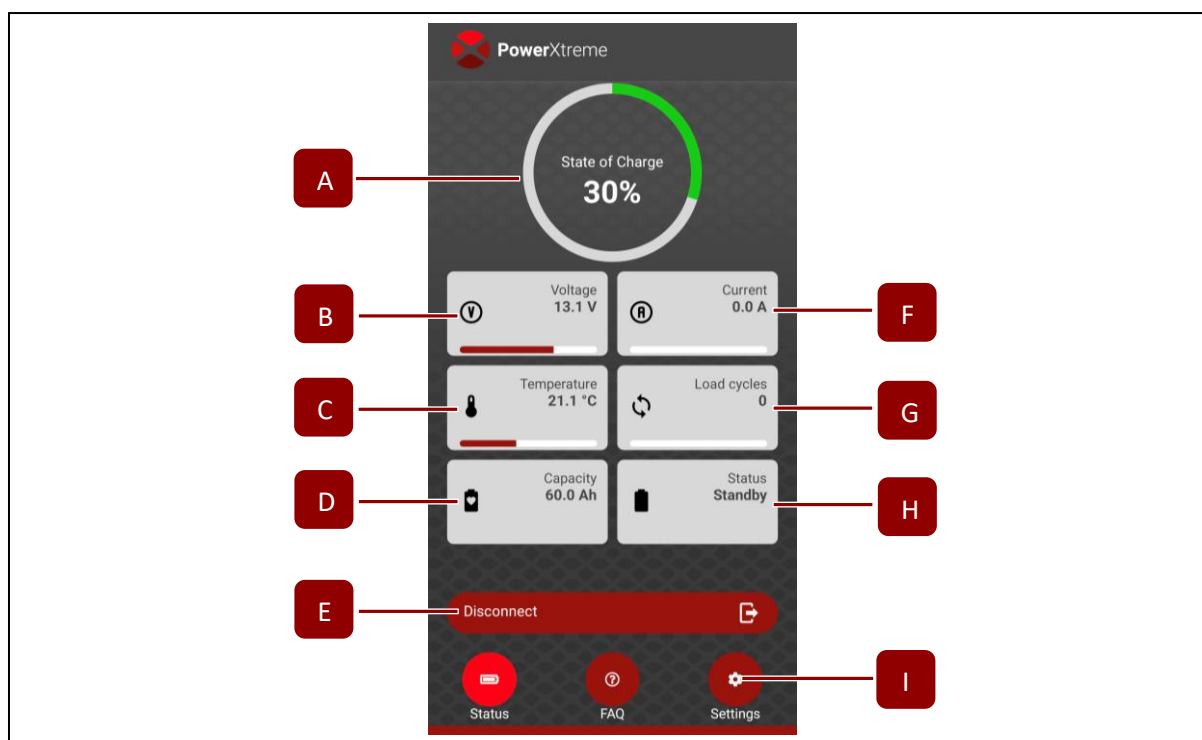
8. Enter the battery password. This is required on every device you connect to the battery for the first time. The password can be found on the side of the battery, on the sticker with the serial number, after 'PW'. A card is also included that shows both the serial number and the password.

When the app connects to the battery, the battery's charge indicator will light up to the current charge level. After a short while, the indicator will turn off again. This shows that a connection to the battery has been established.



6.3.1 Status

The battery summary appears.

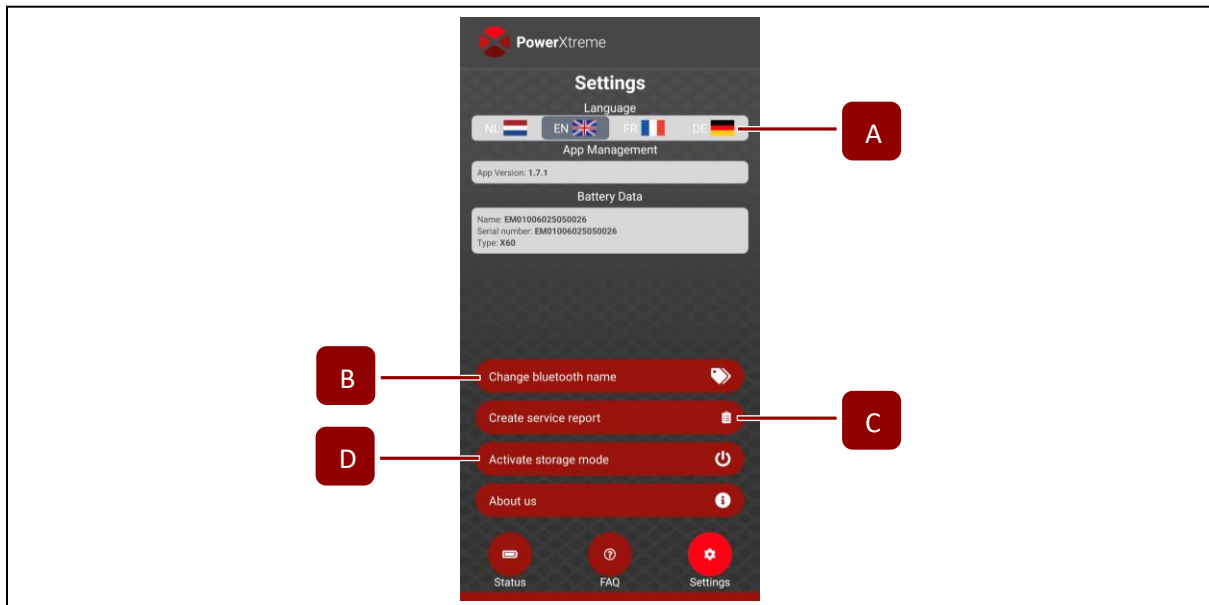


	Data	Meaning	
A	State of Charge	The current charge level of the battery.	
B	Voltage	Battery voltage.	
C	Temperature	Current temperature of the battery.	
D	Capacity	Current capacity of the battery.	
E	Disconnect	The button to disconnect the Bluetooth connection between the device and the battery.	
F	Current	Current through the battery (red = discharging, green = charging).	
G	Load cycles	Number of charge/discharge cycles.	
H	Status	Standby	Battery is ready to use.
		Charging	The battery is charging.
		Discharging	Power is being drawn from the battery.
		Save mode	The battery is in save mode.
		Short circuit	A short circuit has occurred in the battery pack (chapter 8).
		Too cold to charge	Battery temperature is too low to start charging.
		Too cold to discharge	The battery temperature is too low to supply power.
I	Settings button	Settings of your battery (see chapter 6.3.2).	

6.3.2 Settings

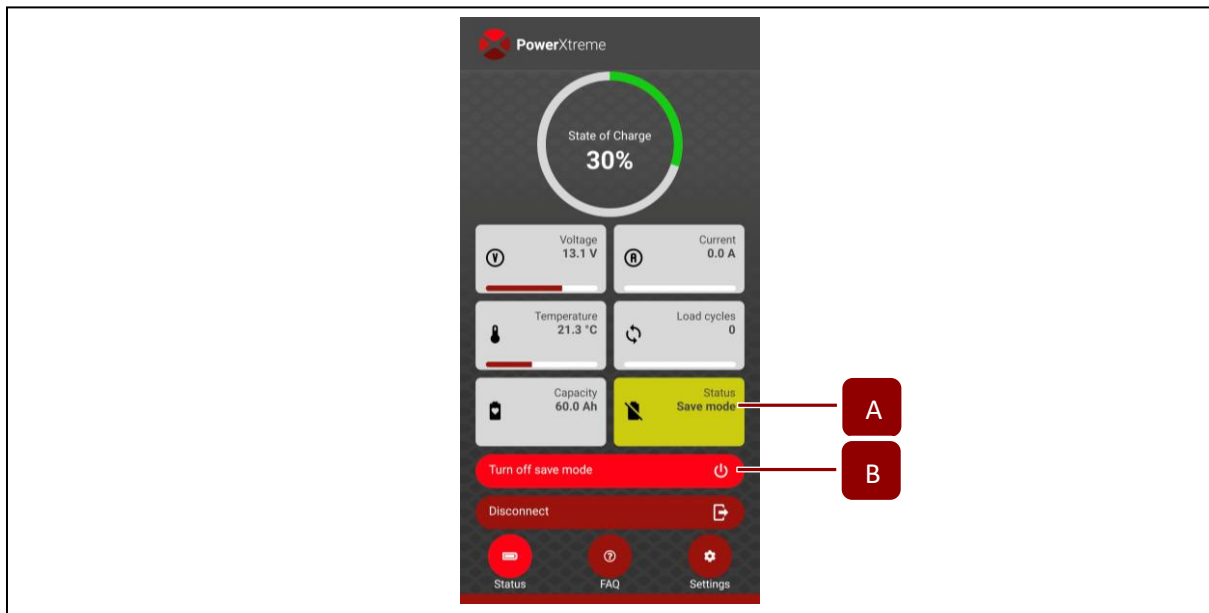
Change the settings as follows:

- Press *Settings* in the battery overview.



Data	Meaning
A Language	Change the language of the app
B Change bluetooth name	Change the name of the battery
C Create service report	If necessary, a service report can be created
D Activate storage mode	Turning save mode on or off

6.3.3 Save mode



Data	Meaning
A Status	The status indicates that the battery is in save mode
B Turn off save mode	The battery can be taken out of save mode

7 Maintenance, Inspection and Cleaning

7.1 Maintenance

The battery does not require special maintenance; it is maintenance-free but must be charged to at least 80% every six months.

7.2 Inspection

Check the wiring and connections at least once a year. Immediately address any issues such as loose connections, melted cable insulation, or burned cables.

The battery should be replaced with a new one, if you find that the capacity has declined to the point where it causes issues. This could be the result of a defect that can be repaired. To verify this, you can send a service report to the manufacturer.

WARNING

Never touch the liquid (electrolyte) from a damaged battery.

7.3 Cleaning

If necessary, clean the battery with a damp cloth.

NOTE

Do not make contact with the battery terminals. If necessary, disconnect the cables.

NOTE

Never use solvents or abrasive materials to clean the battery.

8 Malfunction

This table provides an overview of solutions for potential issues with the battery. If you cannot resolve the issue using this manual, please contact your supplier. Be sure to have the following information ready: the specific model of the battery, the quantity, the serial number, the supplier, the purchase date and a copy of the original invoice.

Problem	Possible cause	Possible solution
The battery does not discharge and there is no voltage on the terminals	The battery is in storage mode	Exit storage mode (section 6.3.1)
	The battery is too low (< 5%)	Charge the battery (section 6.1)
	Battery temperature is below -20 °C or above 60 °C	Bring the battery within -20°C and 60°C
	The app indicates a short circuit or overload	Resolve the overload or short circuit and briefly connect a charger
The battery does not charge	Battery temperature is below 0 °C or above 45 °C	Bring the battery within 0°C and 45 °C
	The power cord has no voltage	Ensure that the power cord is receiving voltage
Charger connected with 220V power cord, red and orange LEDs are flashing	Internal charger defective	Contact your supplier
There is no voltage on the terminals and the orange LED is flashing	Battery is in storage mode	Exit storage mode (section 6.3.1)
The charge indicator shows nothing when pressing the button	The battery is completely empty (risk of irreversible damage)	Charge the battery (section 6.1) and eliminate standby power draw*
The battery is not visible in the app or connection fails	The battery is completely empty (risk of irreversible damage)	Charge the battery (section 6.1) and eliminate standby power draw*
	Battery is not within range of your device	Make sure the battery is within 5 meters of your device
	Bluetooth is turned off on your device	Enable Bluetooth on your device
	Another device is connected to the battery	Disconnect the battery on the other device

*Standby consumption refers to the energy usage of systems or devices that continuously draw (minimal) power, even when the camper is not in use. This includes, for example, an active LIN bus, the consumption of the inverter, solar charge controllers, or other devices in standby mode. This consumption can slowly drain the battery.

If the battery shuts down due to a short circuit, the cause must be resolved. Afterwards, connecting the charger to the mains will reactivate the battery.

If the battery is overloaded 5 times, the charger must be connected to make the battery usable again.

Some (new) battery functions may not work if the battery's software is outdated. You can update the software via the PowerXtreme Pro app.

9 Warranty and Liability

EmergoPlus B.V. guarantees that the PowerXtreme X60 is manufactured in accordance with all legally applicable standards and requirements. All batteries are thoroughly tested and inspected during and before delivery. Failure to comply with the instructions and provisions in this manual may result in damage and/or the product not performing to specification, which may void the warranty. The standard warranty period is 2 years. If you register your battery within six months of purchase (via <https://emergoplus.com/register/>), the warranty period is extended to 5 years.

9.1 Warranty Period

EmergoPlus B.V. guarantees that for a period of 5 years (*after registration within 6 months of purchase), the product will be free from material and manufacturing defects under normal use, installation, maintenance and storage (storage being defined as periods during which the product is not in use for its intended purpose). The warranty starts from the date of purchase (invoice date). This warranty is non-transferable upon resale.

9.2 Exclusions

This warranty does not apply to: (a) Wear, corrosion, discoloration and aging due to normal use and storage; (b) Damage caused by incorrect and/or improper maintenance; (c) Damage caused by external sources such as fire, (submersion in) water, moisture, fluids, ice, improper application, drops, neglect or misuse (including use contrary to instructions provided by EmergoPlus B.V.).

9.3 Warranty Claims

If you wish to make a warranty claim, you must notify the point of purchase where you bought the product of the defect within a reasonable time after discovering it, but in any case before the end of the warranty period. You may also contact the headquarters of EmergoPlus B.V. When claiming the warranty, the product (or the defective part) and the warranty certificate obtained through registration, or the original purchase receipt, must be provided.

- The warranty will be void if the product is not used in accordance with the instructions provided in this manual or if repairs are carried out without prior authorization.
- The battery must not be opened. The warranty becomes void if the battery has been opened or if the warranty seal has been broken.
- The customer is responsible for the return shipping costs.
- Defective batteries that are returned within the warranty period and fall under warranty will be repaired or replaced and returned to the customer free of charge.

EmergoPlus B.V. cannot be held liable for:

- Damage resulting from battery usage.
- Potential errors in this manual or their consequences.
- Usage incompatible with the product's purpose.

The information in this document is subject to change without notice. EmergoPlus B.V. is not liable for technical errors or omissions in this document. The purchased product may differ from what is described in this manual.

EmergoPlus B.V.'s liability is limited to the cost of repair and/or replacement of the product under warranty. The battery must be delivered to EmergoPlus B.V. In case of replacement, the warranty period begins from the original purchase date. EmergoPlus B.V. is not liable for loss of profit, consequential damage, indirect damage or other special damages. This warranty does not affect your legal rights as a consumer and is valid and enforceable only in the country of purchase.

10 Disposal

WARNING

Risk of injury. The battery contains substances harmful to human health. Do not dismantle or shred the battery during disposal.


WARNING

Failure to follow the instructions in this manual may result in injury or product damage. Ensure that this manual, a copy, or reference is provided if reselling the battery.

If the battery is defective, first contact your supplier. It may still be repairable.

If you need to dispose of the battery, please do so as follows:

1. If not defective, discharge it as much as possible.
2. Insulate the terminals with electrical tape or other protective material.

 **Tip!** You can also return a defective battery to your supplier or a certified recycling facility for proper disposal. Contact your supplier for specific conditions and costs.

NOTE

This is a lithium battery and improper disposal may harm the environment. Do not dispose of the battery with household waste.

3. Dispose of the battery in accordance with local and national regulations.



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