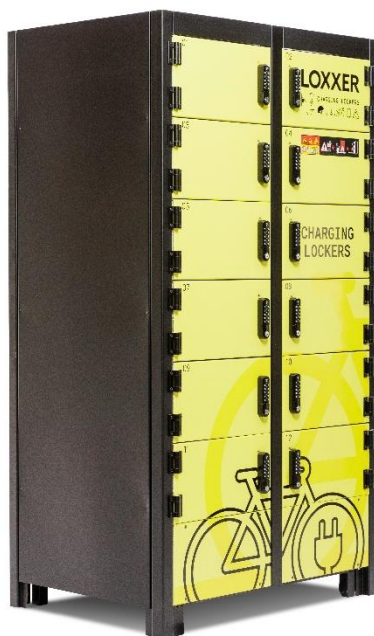


LOXXER



Manual

LOX12

User Guide

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Please read the user manual carefully before using the device.

Keep this information for future reference!

Dear customer,

Thank you very much for choosing a quality product from LOXXER.

You invest in the safety of both your employees and your infrastructure, so that you can carry out your operational activities with peace of mind.

Our LOXXER cabinets are manufactured with advanced and durable materials and are assembled in a qualitative way according to modern production methods. Every Loxxer product is subject to strict quality controls throughout the entire production process.

We are committed to ensuring that you are satisfied with our product. If you have any questions or concerns about your product, please get in touch.

With kind regards,

The LOXXER team

1. INTRODUCTION

1.1 Intended Use

The LOXXER cabinet is not intended for any use other than the storage and charging of lithium-ion batteries. For safety reasons, modifications to the LOXXER cabinet are strictly prohibited. Proper use is based on full compliance with all instructions in this manual. The cabinet must not be operated in environments with heavy smoke or dust accumulation.

Failure to comply with these requirements releases the manufacturer from any liability.

Smoke and temperature detectors

- Aerosol extinguishing unit (optional)
- Fan and siren with warning light
- Door seals
- Locking mechanisms of the lockers

Request a maintenance contract for this.



1.2 Prohibited Use



The LOXXER cabinet is not intended for any use other than the storage and charging of lithium-ion batteries. For safety reasons, modifications to the LOXXER cabinet are strictly prohibited. Proper use is based on full compliance with all instructions in this manual. The cabinet must not be operated in environments with heavy smoke or dust accumulation.

Failure to comply with these requirements releases the manufacturer from any liability.

In addition, ensure that:

- All national and regional regulations are complied with
- Only qualified personnel may perform maintenance or work on electrical components
- The maximum power per side of the cabinet is not exceeded. Each group of 6 lockers provides twelve outlets with a total capacity of 16A. Each locker has 2 power outlets.

1.3 Type specification



1.4 Warranty

The manufacturer's warranty for this product is 12 months from delivery. In the event of unauthorized modifications to the cabinet not requested and approved by the manufacturer, the warranty becomes void.

Replacement of the aerosol unit following activation is never covered by the warranty.
Any (transport) damage must be identified and reported upon delivery.

Technical data

Type	LOX12	
Weight	kg	400
Height	mm	1950
Width	mm	1.042
Depth	mm	740
Total height (+ detachable audiovisual alarm)	mm	2.100
Power Supply	V	230 of 380
Max. shelf load	medical history	70
Airflow	m³/minute	1.21
Ambient temperature	°C	5-35
Relative humidity	%	30-70
Siren sound level	dB(A)	94-106
Lockers:		
Quantity	Quantity	12
Dimensions	(W x H x D) mm	(480 x 240 x 650)

POWER SUPPLY				
1-phase, 230V, 16A	REGION	EU	FR	UK
	Amps	16A	16A	13A
	Max. total power of the cabinet	3.68 kW	3.68 kW	2.99 kW
	Max. power per side	1.84 kW	1.84 kW	1,495 kW
3-phase, 400V, 16A	REGION	EU	FR	UK
	Amps	2 x 16A	2 x 16A	2 x 13A
	Max. total power of the cabinet	7.39 kW	7.39 kW	6 kW
	Max. power per side	3.68 KW	3.68 KW	2.99 KW

In the three-phase configuration, only two phases are used. Each side of the cabinet (6 lockers with 2 outlets each) is powered by a separate phase.

2. DESCRIPTION

2.10 Components



No	Part
1	Control unit
2	Lockers with fire-resistant panels
3	Aerosol extinguishing unit
4	Cut-outs for pallet jack access
5	Perforated shelf
6	Power outlet
7	Numeric lock

3. OPERATION OF THE LOCKER

3.10 General

The LOXXER cabinet contains 12 lockers, each equipped with 2 power outlets. These outlets are intended for charging batteries using their specific battery chargers as prescribed by the battery manufacturer. Never mix battery chargers and batteries from different types or brands as this can severely damage the batteries during charging.

3.10.1 Perforated shelves

The shelves inside the cabinet are perforated to allow the aerosol extinguishing agent to spread efficiently in case of a fire.

3.10.2 Pallet truck cutouts

The cabinet features cut-outs on all four sides for easy installation or relocation during an intervention using a pallet jack. The cabinet dimensions allow it to pass through standard doorways.

3.11 Ensuring safe operation

3.11.1 Active ventilation

Charging batteries generates heat. To keep heat levels within acceptable limits, the cabinet is equipped with active ventilation that continuously expels warm air from the cabinet via the top. Fresh air is drawn in from the bottom.

In case of smoke or temperature detection, active ventilation is automatically disabled..

3.11.2 Unused cable openings

If the LOX12 has cable openings that are not in use, they must be properly sealed using the appropriate components, which can be ordered from Loxxer. All necessary seals are included as standard with the cabinet.

3.11.3 Storage and charging



CAUTION

Never store visibly damaged lithium-ion batteries indoors. Dispose of them immediately in approved outdoor containers for lithium-ion batteries. The cabinet must not be placed near flammable materials!



3.11.4 Locks



Each locker is equipped with a numeric lock. The lock offers additional features such as a technical code, master code, private and public modes, etc. These functionalities are explained in the attachments.

Lockers that are not in use must remain closed to ensure proper operation of the aerosol extinguishing unit (optional).

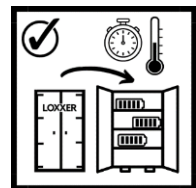
3.11.5 Self-closing locker doors

The fire safety of the locker cabinet is only guaranteed if all doors remain closed. Self-closing hinges ensure that locker doors always close automatically. The owner/user is responsible for ensuring the doors are properly closed when the lockers are not in use.



ATTENTION IN CASE OF FAULTS OR ALARM

Only authorized personnel with the appropriate personal protective equipment (e.g., fire brigade) may open the cabinet. During a battery fire, flammable gases may be released. Remove all ignition sources within a 12-meter radius of the cabinet before opening. Open the cabinet only in a safe environment.



3.11.6 System monitoring

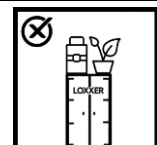
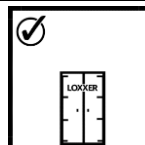
Continuous system monitoring is integrated as a standard feature in the LOXXER cabinet's safety concept. If a component is not properly connected, this is indicated via the status LED and an error code is displayed on the controller.

3.11.7 Pressure relief valve

In the event of a sudden temperature increase that causes excessive pressure inside the cabinet, or if a battery explosion generates significant pressure, the pressure relief valve will automatically open to release the pressure back to normal atmospheric levels.



It is strictly forbidden to place any object on the pressure relief valve.



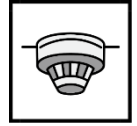
3.11.8 Exhaust air system

Lithium-ion batteries can produce toxic gases. It is therefore advisable to connect the cabinet to a ventilation system through the designated air outlet. The ventilation system must have a minimum flow rate of 30m³ and must not discharge the air to other work sites.

If the cabinet is not connected, a risk analysis must be made to ensure that no gases can be released in active workshops.

3.12 Smoke and temperature detection

The LOX12 is equipped with an optical smoke detector and a temperature sensor to detect critical incidents. These are triggered if smoke is detected or if the cabinet temperature exceeds 60°C. Both components comply with the EN 54 standard.



3.13 Aerosol extinguishing unit (optional)

The aerosol extinguishers are specifically designed to control or extinguish fires using a dry aerosol that interrupts the chemical combustion process at the molecular level within seconds, **WITHOUT** removing the oxygen present.



The aerosol extinguishing agent is harmless and non-corrosive.

Once activated, the solid material in the aerosol generator is converted into a rapidly expanding dry aerosol, which exits the extinguisher and extinguishes the fire in the secured space within seconds. For this reason, all doors must remain closed during the extinguishing process.

Always notify the manufacturer or your distributor if the aerosol extinguisher has been activated.

3.14 Fault status and alarm

The LOX12 has an RGB status LED and a siren with flashing light as standard to notify the customer in the event of a fault or alarm. Both are placed in a highly visible place at the top of the cabinet.

3.14.1 Error status

If there is a poor connection with the peripheral equipment, the status LED will illuminate yellow. This allows you to verify that all connected detectors, sirens, and optional equipment are functioning correctly.

If the cabinet is in fault mode, the batteries will not be charged and ventilation will stop.

3.14.2 Pre-alarm

If smoke is detected or the temperature threshold (60°C) is reached, the status LED will illuminate purple. Additionally, the siren will sound repeatedly for 3 seconds on and 3 seconds off. This pre-alarm can be forwarded via cable or wireless transmission.

In the event of a pre-alarm, charging and ventilation stop immediately. A power cycle is required to reset the cabinet.

Before resetting the controller, ensure that the cabinet can be used safely.

To reset, disconnect the cabinet from the power supply, wait 10 seconds, then reconnect the power.

3.14.3 Alarm

If smoke is detected inside the cabinet and the temperature rises above 60°C, the status LED will illuminate red. The siren will sound continuously. This alarm can be forwarded via cable as standard, or optionally via wireless transmission.

In the event of an alarm, charging and ventilation stop immediately. If the aerosol extinguishing unit is installed, it will also be activated immediately.

Take the necessary precautions and notify your fire safety department when the alarm is triggered.

3.15 Transport

Move the LOXXER® cabinet, including the transport packaging, to the correct location using a pallet truck. Ensure that both doors are properly locked.

Please note that the LOXXER® cabinet must always remain in an upright position during transport. Handle with care and make sure the cabinet does not slip.

Remove the transport packaging from the top and bottom (see images). If the surface is uneven, you can level the LOXXER® cabinet using the adjustable feet located at each corner at the bottom.

Included with the cabinet

- Masterkey for the combination locks
- User manual
- Maintenance sticker

3.16 Connecting the cabinet

Connect the cabinet to the power supply and, if desired, to an existing fire alarm control panel.

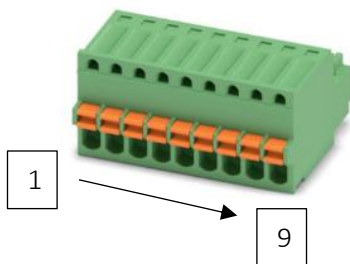
3.16.1 Connection to power supply

Connect the LOXXER® cabinet to the building's power supply. After a few seconds, the LOXXER® cabinet is ready for use:

- Status LED is "green", indicating normal operation
- The fan and siren are active
- Smoke and temperature detection are operational
- Wireless transmission (option) are operational
- Aerosol extinguishing system (option) is operational
- Batteries can be charged

3.16.2 Connection to an existing fire alarm system

The cabinet controller is equipped with a connector with terminals (FK-MC 0.5/ 9-ST-2.5) to connect the cabinet to an existing alarm system using potential-free contacts. This connection must be carried out by qualified personnel.



Pin no	Description	Wire
Pin 1	RLS 1 : NC	Fault
Pin 2	RLS 1 : NO	Fault
Pin 3	RLS 1 : COM	Fault
Pin 4	RLS 2 : NC	Pre-Alarm
Pin 5	RLS 2 : NO	Pre-Alarm
Pin 6	RLS 2 : COM	Pre-Alarm
Pin 7	RLS 3 : NC	Alarm
Pin 8	RLS 3 : NO	Alarm
Pin 9	RLS 3 : COM	Alarm

3.16.3 Wireless Transmission (Optional)

To configure the communication module, follow the instructions provided with the M2M communicator to access your account and set up the RControl app to receive notifications.

3.17 Contact

If you have any questions or remarks, please contact your dealer.

4. EMERGENCIES

In case of fire:

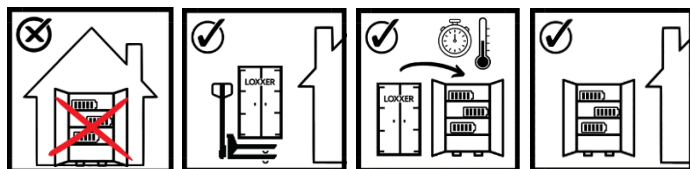
Stay calm, evacuate the building and notify the fire brigade immediately. Due to the fire, a flammable gas-air mixture may have formed inside the cabinet. The cabinet may only be opened by qualified personnel (the fire department) after a minimum of 24 hours.



Important:

Do not open the cabinet if the surface of the cabinet is still warm. The cabinet may only be opened outdoors. Opening the cabinet doors too soon inside a building can cause the fire to spread and put lives at risk. Ensure personal protective equipment is worn in case of fire.

Removing the cupboard from the building:



To prevent further damage and minimize risk, the cabinet should be moved out of the building. Burning lithium batteries involve several hazards:

- Toxic fumes
- Leakage of fluids
- Physical injuries

Do not reuse the cabinet if it has been damaged by fire or extinguishing agents.

1. Warranty conditions

We guarantee that the battery cabinet is manufactured without defects under our general terms and conditions as included in the sales agreement.

The warranty applies only if the above operating and maintenance instructions and all applicable regulations are strictly followed. Any modification to the battery cabinet by the customer without consultation with the manufacturer Loxxer BV voids any claim to the legal warranty.

Disclaimer:

- LOXXER BV is not liable for damage caused by improper use.
- LOXXER has no control over the lithium batteries used by the user. The user is responsible for ensuring the cabinet is suitable for the intended application.
- LOXXER is not liable for technical defects or damage of any kind caused by lithium batteries.

Loxxer BV

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