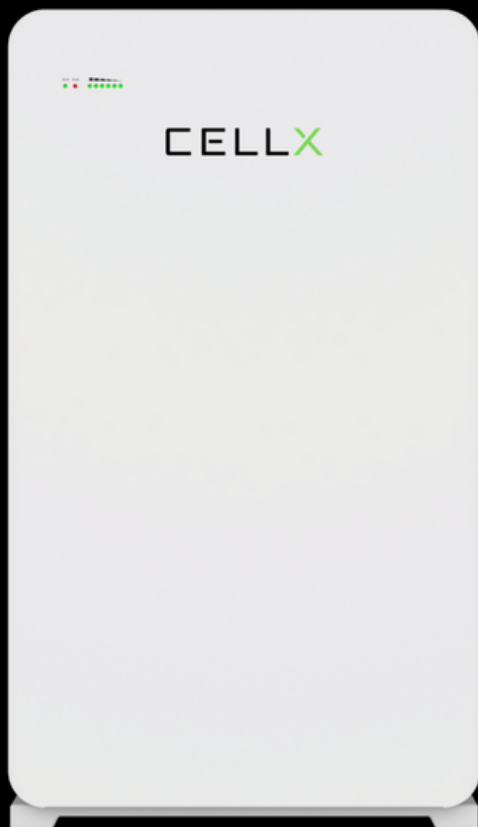




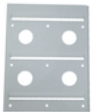





CELLX - Home 5

User Manual



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Safety Instructions

This manual outlines the performance, technical features, warnings, and safety precautions regarding the CELLX Home 5 energy storage system.

- Disassembling the CELLX Home 5 energy storage system or attempting repairs on your own is prohibited. In case of maintenance or repair, please contact us via email at service@cellx.pl. The manufacturer is not responsible for any damages resulting from unauthorized installation, disassembly, or repair of the CELLX Home 5 energy storage system.
- Reversing the positive and negative terminals of the battery, connecting the battery directly to a 230V AC power socket, or short-circuiting the positive and negative terminals of the battery is prohibited.
- It is forbidden to charge or discharge energy storage systems that are hot, deformed, or leaking.

Before starting the installation

- Cable Specification: Make sure that the connectors used for the power cable meet the maximum current requirements for the device's operation.
- Wiring System: Ensure that the wiring is organized and resistant to moisture and corrosion.
- During the entire installation process, an anti-static wristband should be worn.

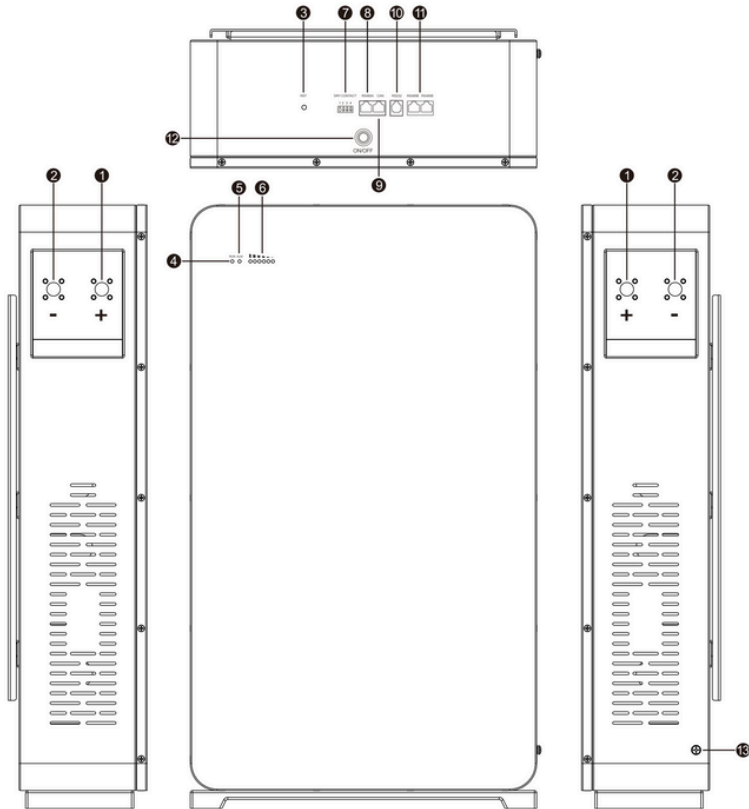
Warranty

Warranty information for the CELLX Home 5 energy storage system can be found at the following link:

- cellx.pl/pdfs/warranty_cellx_home_5.pdf



Diagram of the CELLX Home 5 Energy Storage



Number	Description
1	Positive terminal (+)
2	Negative terminal (-)
3	RESET Button
4	RUN LED
5	ALARM LED
6	Battery charge indicator (SOC)
7	Signal terminals (no current)
8	RS485A communication port
9	CAN communication port
10	RS232 communication port
11	RS485B communication port
12	ON/OFF switch
13	Grounding port

Installation of the CELLX Home 5 Energy Storage

Preparation for Installation

Installation, operation, and maintenance of the LiFePO₄ battery energy storage system should only be carried out by trained and qualified professionals. Before installation and use, thoroughly review the safety precautions and related operational procedures for this product. The installation process must strictly adhere to the following safety regulations and local safety codes, as failure to do so may result in personal injury or product damage.

- Ensure that the inverter is connected to the battery using a qualified power cable.
- During battery installation, make sure that the power system is turned off, and the battery is disconnected.
- All power cables must be properly insulated, and it is strictly forbidden to expose the power cable.
- During installation, ensure that the battery and power system are properly grounded.

Preparation

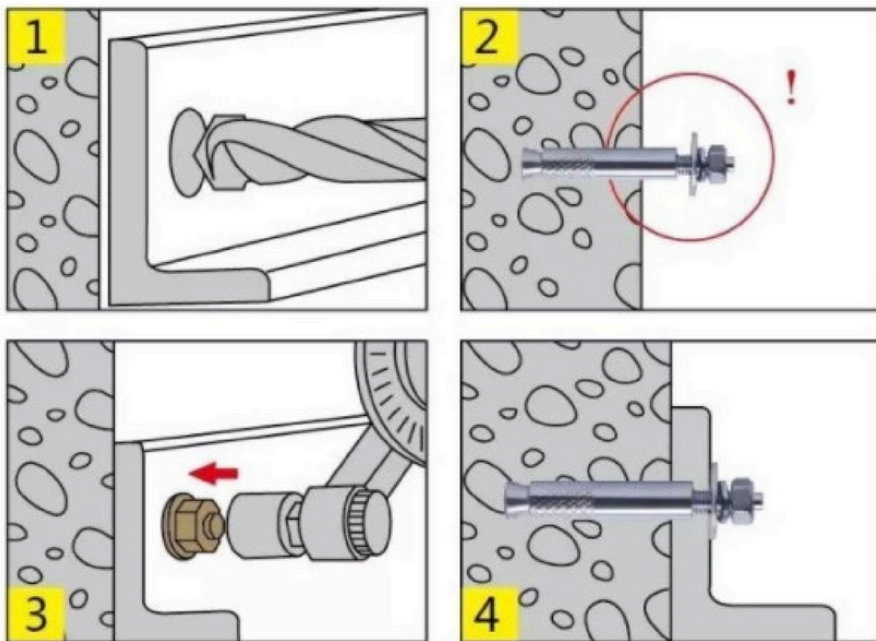
Before starting the installation, ensure that the CELLX Home 5 energy storage system is turned off. Also, turn off any devices that need to be connected to the system. The CELLX Home 5 is designed for both ground and wall mounting.

Wall Mounting

- Choose a suitable solid wall with a thickness greater than 150 mm.
- Familiarize yourself with the mounting bracket hole layout and mark the positions for the holes on the wall.
- Drill 9 holes at the marked positions, with a depth of ≥ 80 mm.

- Install the M8 expansion screws in the upper holes and tighten the nuts.
- Secure the mounting bracket to the wall using the expansion screws.
- While holding the unit in a vertical position, lift it slightly above the mounting bracket and hang the battery on the bracket.
- Ensure that the energy storage system is hanging securely and there is no risk of the device falling.

The expansion screw installation diagram shows how to correctly install the expansion screw to keep the mounting bracket securely attached to the wall.

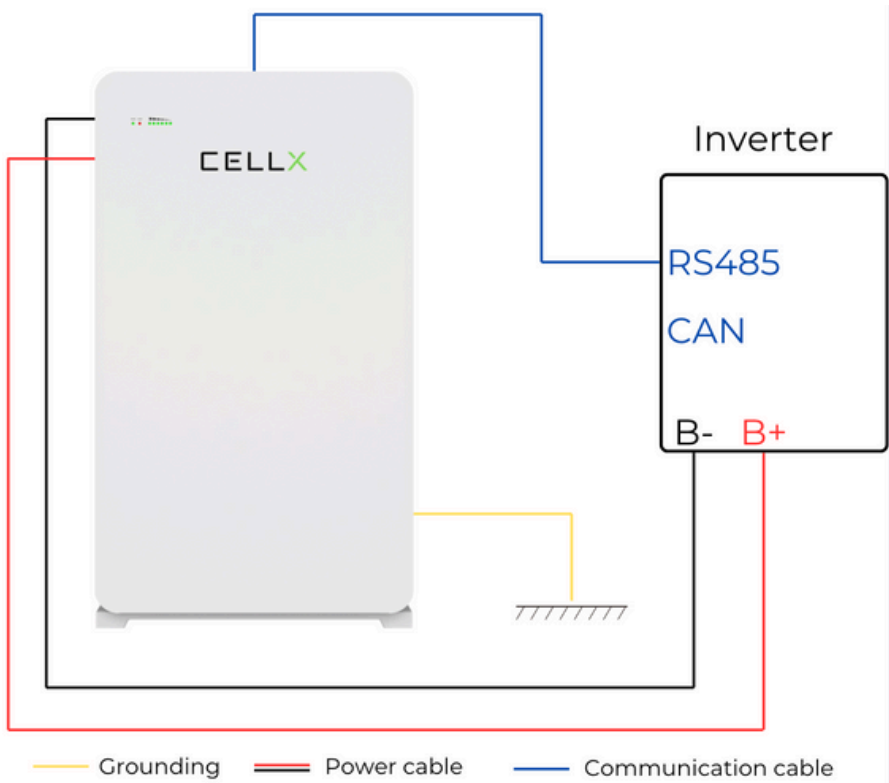


Ground Mounting

- Choose a stable and level ground location that provides proper ventilation and access to the device. Ensure that the surface is solid and properly leveled.
- Make sure the energy storage system is standing securely with no risk of tipping over or shifting the device.

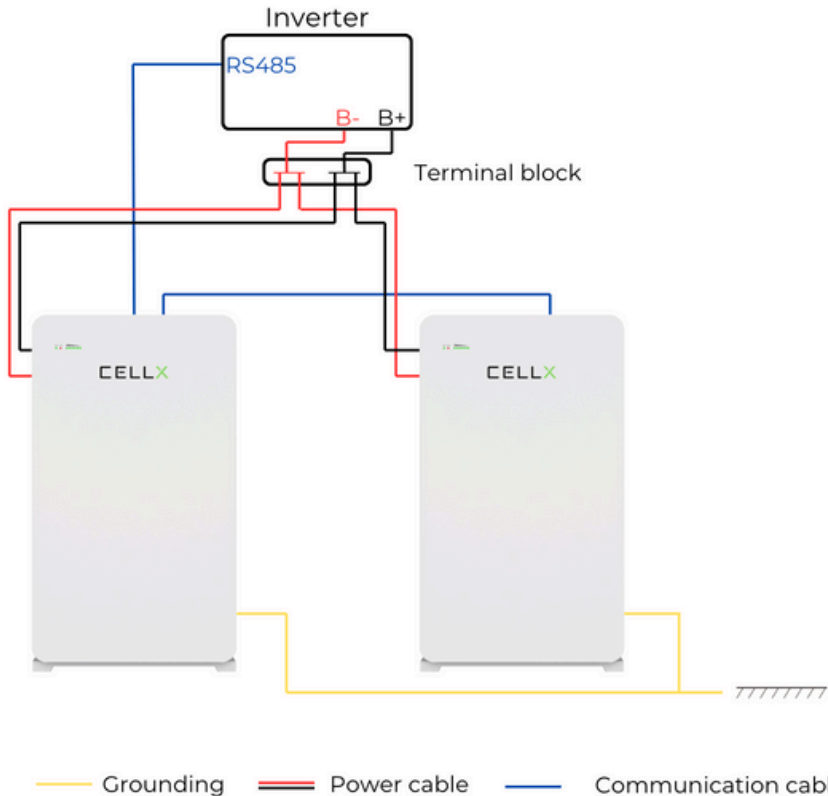
Electrical Installation

- Connect the positive and negative battery terminals to the positive and negative terminals of the inverter using the power cable.
- Ensure proper grounding.
- Connect the RS485A (or CAN) port of the battery to the RS485 (or CAN) communication port of the inverter using the communication cable.



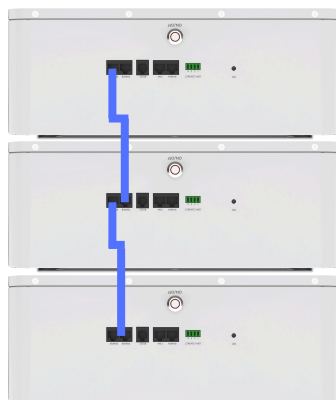
Parallel Connection of CELLX Home 5

When connecting the batteries in a parallel configuration, manually press the switch (on/off). Use myCellx application to check if the voltage of each battery is uniform. If the voltage is uniform, turn off the batteries and proceed with the cable connections according to the diagram.



- Connect the positive and negative terminals of each battery to the positive and negative terminals of the busbar using a power cable. Then, connect the positive and negative terminals of the busbar to the positive and negative terminals of the inverter.
- Ensure grounding for all batteries.
- Connect the RS485A (or CAN) port of the first battery to the RS485 (or CAN) communication port of the inverter using a communication cable.

- According to the adjacent diagram, connect the RS485B communication interface of neighboring storage units using a communication cable. The right RS485B port is the output, and the left RS485B port is the input.



Startup Sequence

After completing the connections of the inverter, battery, and main power supply, start each CELLX Home 5 energy storage unit one by one. Then, turn on the inverter. Once the CELLX Home 5 is powered on, check if the communication between the inverter and the battery is functioning correctly. If the data from the battery is successfully transmitted to the inverter, it means the communication between the inverter and the battery has been successfully established.

Typical Issues and Solutions

Description	Analysis	Solution
No DC output voltage	Over-discharge protection	Charge the battery and try again
Charging time too short	Incomplete charging or insufficient battery capacity	Battery maintenance or replacement
Cannot fully charge the battery	The DC output voltage of the power system is lower than the minimum	Set the DC output voltage of the power system to a value suitable for battery charging
The battery output voltage is unstable	The battery management system is not functioning properly	Press the reset button to reset the system
Communication settings error	Incorrect communication settings	Adjust the communication settings according to the recommendations
Overcurrent protection during discharge	Inverter power exceeds the limit	Match the number of batteries to the inverter power rating

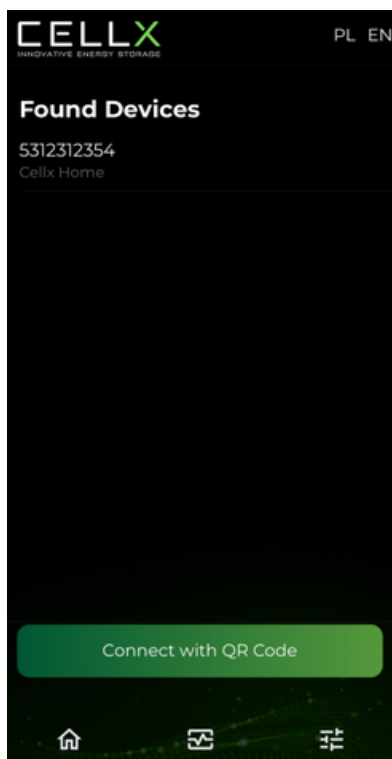
Configuration of CELLX Home 5 using myCellx

Energy storage systems CELLX Home 5 can be monitored and configured using the dedicated mobile app myCellx, which is available on both Apple and Android devices.



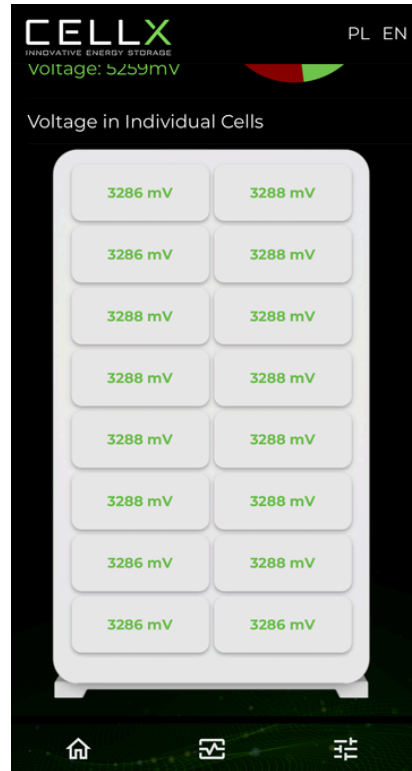
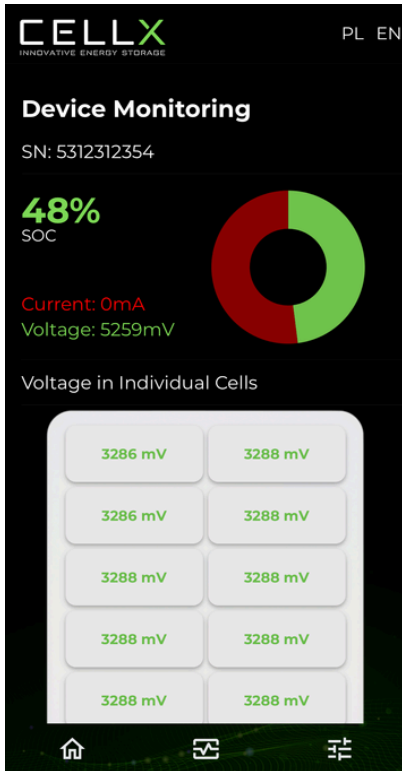
Connection with the CELLX Home 5 energy storage

The CELLX Home 5 energy storage system can be found in the list of available devices. It is also possible to connect directly via the QR code located on the side of the CELLX Home 5 unit.



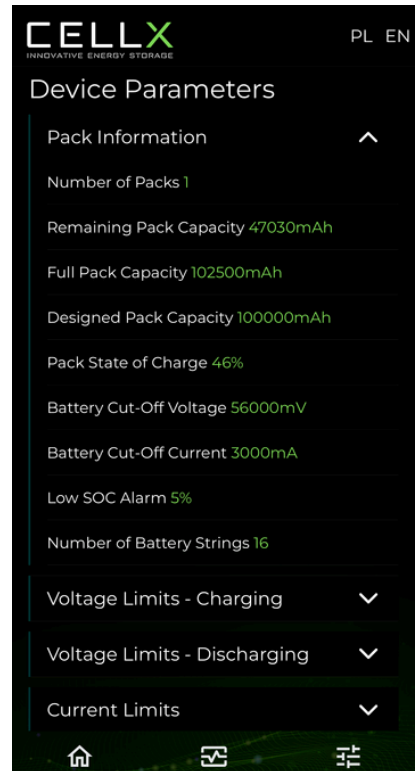
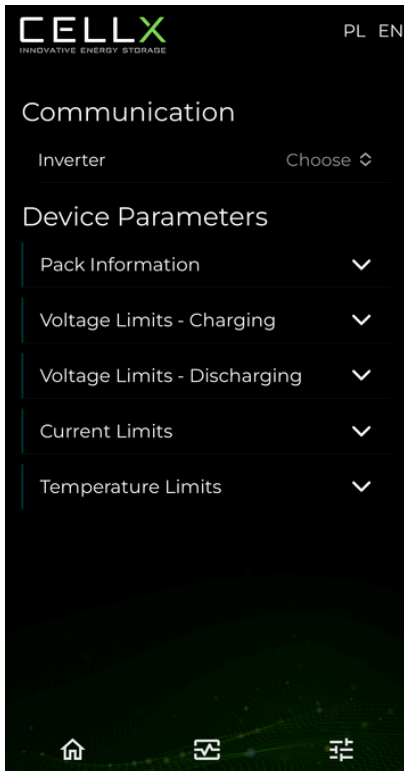
Monitoring the parameters of the CELLX Home 5 energy storage

Once connected to the CELLX Home 5 energy storage system, you can monitor the system's parameters through the app, including the voltage of individual cells.



Configuration of the CELLX Home 5 energy storage

Once connected to the CELLX Home 5 energy storage system, you can configure the system's parameters through the app. The app also allows you to select the inverter to which the CELLX Home 5 energy storage system should be connected.



Integration with Inverters

Inverter Brand	Communication method
Voltronic Power	RS485
VICTRON	CAN
GROWATT	RS485 / CAN
PYLONTECH	RS485
GOODWE	CAN
LUXPOWER	RS485
SOFAR	CAN
SRNE	RS485
Deye	RS485 / CAN
MEGAREWO	CAN
MUST	CAN
SMA	CAN

Maintenance

- Do not immerse the battery in water. When not in use, store it in a cool, dry place.
- Do not throw the battery into fire or heat it externally to avoid explosion or other hazards.
- Do not reverse the positive and negative terminals of the battery. Never connect the battery directly to a power outlet, and short-circuiting the positive and negative terminals is prohibited.
- Do not use batteries that show signs of heating, swelling, deformation, or leakage in charging or discharging devices.
- To ensure optimal battery performance, perform a charging and discharging cycle every three months and maintain the charge level between 40% and 60%.
- The recommended battery load should not exceed the maximum continuous discharge current of the battery (100A).