



(EN) Safety information

(Compliant with EU Regulation 2023/1542 - general user-level requirements)

1.1. General Safety

- Do not open, disassemble, or modify the battery enclosure.
- Keep the product away from water, moisture, and chemically aggressive environments.
- Do not expose the system to direct sunlight, open flames, sparks, or heat sources.
- Do not stack heavy objects on top of the unit or apply mechanical shock (impact, dropping, crushing).
- Ensure that the unit is positioned on a level, stable surface before operation.
- Do not allow children or unauthorized people to operate or interact with the system.
- The system must be used only with compatible inverters and electrical equipment (see actual list on freen.com).

CAUTION:

THIS EQUIPMENT MUST BE GROUNDED



The equipment must be connected to a protective earth (PE) in accordance with local electrical regulations.

NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Do not open or disassemble the equipment. The system contains stored energy and high current circuits. Even at low voltage, improper handling may result in burns, arc flash, or equipment damage.



The exclamation mark within an equilateral triangle indicates important operating and maintenance instructions.



1.2. Electrical Safety

- Always **turn off** the inverter and isolate the DC circuit before connecting or disconnecting the battery.
- Ensure correct polarity:
Red/Orange = Positive (+), Black = Negative (-).
- Never short-circuit the DC terminals.
- Use only approved cables with appropriate current ratings and insulation.

Required minimum DC cable cross-section: 25 mm² copper

- Avoid loose connections - improperly tightened terminals can cause overheating or arcing.
- Do not touch exposed conductors with wet hands or conductive tools.
- Ensure that the system is properly grounded according to local electrical regulations.
- Avoid placing metal objects near the terminals.

1.3. Temperature and Environmental Requirements

Operating Temperature

- **Charging:** 0°C to +55°C
- **Discharging:** -30°C to +60°C

Storage Temperature

- Recommended: **-10°C to +25°C**
- Long-term storage should be at **25–75% state of charge (SoC).**

Environmental Conditions

- Indoor installation only
- Keep the system away from humidity, dust, and corrosive agents.
- Maintain at least **5 cm** clearance around the enclosure for airflow.
- Prevent condensation - allow the battery to acclimate to room temperature before powering on if previously stored in a cold environment for not less than 24 hours.



1.4. Emergency Procedures

Overheat, Smoke, Abnormal Noise or Smell

If one mentioned above observed:

- Immediately turn off the inverter and disconnect the DC power circuit.
- Move away from the product and ensure ventilation of the room.
- Do not attempt to open the enclosure.
- Contact technical support.

Liquid Exposure

If exposed to water or other liquids:

- Disconnect the unit from all power sources
- Do not turn it back on
- Allow professional inspection before reuse

Physical Damage

If the unit has been dropped, severely shaken, or damaged:

- Do not operate the system
- Contact the manufacturer for inspection

Fire Safety

- Evacuate personnel if smoke becomes dense or the unit becomes abnormally hot.
- In case of fire, immediately contact local emergency services and inform them about the nature of the fire.
- Use only appropriate extinguishers for battery-related incidents.
- Do NOT use water.