

FLEXSTORM SERIES



SAFETY INSTRUCTIONS

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1. Information

These safety instructions complement the user manual of the purchased product. Before starting installation or commissioning, make sure that you have all the documentation, otherwise ask the manufacturer.



- **Compliance with these safety instructions is mandatory and the user is legally responsible** for operating the equipment safely and avoiding accidents. Read these instructions carefully and follow the steps given in the order.



- If you **do not fully understand these instructions, do not proceed** with installation or commissioning, as this may endanger **your safety and/or the safety of others**.

- This document is **complementary to the user manual** and must therefore be kept inside the cabinet in the drawer provided for this purpose.



- In the event of a discrepancy between this manual and the local electrical regulations or restrictions at the customer's location, the relevant local electrical regulations shall prevail.

Visit our website www.premiumpsu.com for more information or contact technical support.

1.1 About the manual

The purpose of this manual is to provide safety-related information during all stages of operation of the equipment, from installation to start-up, shutdown, repair and maintenance.

Due to the policy of continuous improvement, **the content of this manual is subject to change without notice**. This manual may contain variations from the installed product depending on software or hardware upgrades. Premium PSU reserves the right to change product specifications or performance.

Copying, modification or translation of these safety instructions **without prior consent of Premium PSU** is strictly prohibited.

From now on, the acronym SAT will refer to Premium PSU Technical Support Service.

1.2 Symbols



- **Warning.** Notice of basic information and features for the safety of people and equipment.



- **Danger of electric shock.** This can cause electric shocks which can endanger the safety of persons.



- **Risk of explosion.** An explosion can be caused by misuse and mishandling of the equipment's batteries. These emit substances that can explode in a short circuit or fire.



- **Warning. Corrosive materials.** Do not touch areas where this sign appears with the bare hands. Electrolyte in metals is harmful to people. Do not inhale and avoid contact with skin, eyes and clothing.



- **Warning. Flammable materials.** A fire can be started by misuse and mishandling of the equipment.



- **Grounding.** Connect the earth wire to this terminal.



- **No touching. Risk of shock.** Danger of electrical shocks when contacting low-potential parts. Only authorised and qualified personnel may operate in these areas.



- **Manual consultation.** Read the instructions in the manual carefully before handling the equipment.

2. Instructions

- Before proceeding, check that the electrical characteristics shown on the product labels match those desired by the user.



- If it is a cabinet with a battery, the user must take the necessary precautions to avoid injury from direct or indirect contact.

- Regardless of other factors, if the batteries are connected to the equipment and their protections are ON, the equipment will have voltage at the output.



- The equipment should only be installed and operated by trained or qualified personnel.



- If it is necessary to handle the connection terminals after the equipment has been connected to the mains or battery, wait four minutes after complete disconnection of the equipment before intervening.

- In case of fire, use a dry powder fire extinguisher for safety. Otherwise there is a risk of electric shock.

2.1 General notices

- The electrical connections and disconnections of the equipment shall be carried out without mains and with the magnetothermic protections deactivated (OFF).
- Do not store or use the unit in locations near explosive, flammable and/or corrosive gases, high humidity, heat sources, or in locations with vibration, shock hazard or high salinity. The permissible ambient conditions are defined in the equipment data sheet.
- **Electrostatic discharges can cause failures** in any of the electronic components; when being handled, appropriate measures must be taken to avoid damage.



- Before opening or disassembling the equipment, consult the user manual. Dangerous voltages and danger of electric shock exist inside the equipment. Handling may only be carried out by qualified personnel. In the event of a fault, please refer to the maintenance and repair manual or contact the Premium PSU Service Centre.

- Any action taken that is not described in the equipment documents may void the equipment warranty.
- To stop the equipment completely, follow the instructions in the start-up and shutdown manual. Consult the documentation before proceeding.
- The FLEXSTORM SERIES system operates with a supply voltage of 400 VAC. This voltage is dangerous and can cause personal injury in case of contact with conductive parts of the equipment.
- Batteries and capacitors do not accept reverse charging.



- The leakage current of the equipment flows through the protective earth. An insulated earth conductor with the same cross-section and characteristics as the input cables, but green-yellow in colour, must be connected to the equipment.



- The **connection to earth** through the grounding plate **is compulsory**.
- The quality of the earthing connection must be within the parameters of national or local regulations.
- At no time should the input cable be connected to the output. Directly or indirectly.

2.2 Batteries



- Batteries may only be handled by trained personnel.
- Before carrying out any action inside the equipment, disconnect the batteries and then check for absence of voltage.
- When replacing defective batteries, the complete battery pack must be replaced. Except in new equipment where only the defective one should be replaced. Replacement shall be with a battery of the same type, voltage, capacity and make.
- Re-use of defective batteries is expressly prohibited.

- The cables for interconnecting the equipment with the batteries must be those provided by the manufacturer or similar with prior approval of Premium PSU.

- Due to the risk of electrocution generated by batteries, follow the precautionary measures below:



- o PPE (Personal Protective Equipment), use the appropriate PPE: insulating gloves and footwear, protective goggles, ..
- o Do not handle with metal accessories such as rings, pendants, ..
- o Tools must have insulated handles.
- o Respect the colour code / polarity in the connection of the equipment to the batteries, Red-Positive and Black-Negative.
- o Do not leave tools or metal objects on the batteries, as this creates a risk of short-circuit and possible explosion, endangering people and installations in the vicinity.
- o Do not handle with hands or with conductive objects.



- Do not short-circuit the battery terminals to protect the batteries and the equipment.
- The **terminal** clamps **must be properly tightened** and covered with a light coat of petroleum jelly.
- Avoid mechanical shocks or mechanical stress to the batteries.



- Do not attempt to open or break the battery. The electrolyte is toxic and harmful to eyes and skin.



- Do not expose batteries to high temperatures. Never bring any flame or spark close to the battery. **Do not smoke**. There is a risk of explosion.
- If acid comes into contact with any part of the body, rinse quickly and seek emergency medical attention.
- Batteries must be disposed of in accordance with applicable laws.

