

REQUIRED SAFETY EQUIPMENT



SAFETY FIRST

If you are collecting the equipment for someone else please make sure this sheet is given to the equipment user to read. This sheet should be given to the site supervisor if the equipment is being hired for commercial use so that the information is available to all users.

Before starting any job, be sure to spend a few minutes planning and understanding the hazards and risks of the job. Do this by:

- Thinking about and observing your surroundings
- Running through the steps of the job in your mind
- Identifying the hazards, how you can get hurt and how you'll prevent it
- Knowing what plant and equipment you need
- Only starting when you can do the job safely
- Ensuring you are trained or experienced for the task
- Communicating with everyone involved

Points to consider when planning a task. Can you:

- Come into contact with an energy source (e.g. heat, electricity, substance under pressure) or hazardous materials
- Be struck-by or against anything?
- Be caught-in, on or between anything?
- Slip, trip or fall on the same or too a lower level
- Strain or sprain a muscle?
- Cause damage to plant equipment or property?
- Spill or pollute something?

Battery Energy Storage System

Instructions for Use

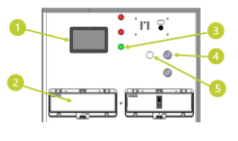


Pre-Start Checks and Safety

- Ensure the correct size system has been selected
- Ensure the Electrical Code of Compliance is current
- Check all panels are secure
- Check all exposed cabling is secure and safe
- Ensure all Safety Systems and Emergency Stops operate correctly
- Make sure all equipment that is to be powered the system has been electrically tested
- Never work on or repair the unit whilst it is in operation
- Always consult an electrician or a trained technician if you are unsure of anything

Start-up Procedure (MX20/37Li) only

- Make sure the output isolator switches are set to the OFF position.
- Make sure the emergency stop button is reset and fully open.
- If the "battery on" light (below image, item 3) is not illuminated, then the 'System on-off' selector switch will need to be turned to "on" (below image, item 4) until the 'Battery ON' LED illuminates – this may take up to 60 seconds. This will activate a check on the battery monitoring system and then activate a pre-charge sequence that will then engage the batteries to the internal control system. Under normal operating conditions the light will always be illuminated.
- The 'System Live' LED will then illuminate.
- Close the main isolator switches into the ON position
- As a precautionary measure, the functional test button will need to be tested before each use to prove the operation of the device. For constant use, this must be tested every three months



Start-up Procedure (SX10/15) only

- Make sure the main output MCB and socket protections (Figure 11, items 2 and 3) are set to the OFF position.
- Connect input and output cables ensuring any input is isolated at the supply with no voltage present.
- Make sure the emergency stop button (Figure 11, item 1) is reset by twisting clockwise 90°.

- If the "BATTERY ON" LED (Figure 10, item 2) is not illuminated, Push the green ON button for 1 second and release (Figure 10, item 1) the 'BATTERY ON' LED will illuminate after 3 seconds. This will activate a check on the battery monitoring system followed by a pre-charge sequence that will connect the batteries to the AC power system. *When the system is powered off, the green LED will be extinguished.*
- After 30s inverters will output AC
- Energise the incoming supply connected to the unit
- Close the desired output MCBs/RCBOs to supply power to the load. The main output MCB acts as the single point of isolation and will need to be closed in order to supply power to the distributed sockets.

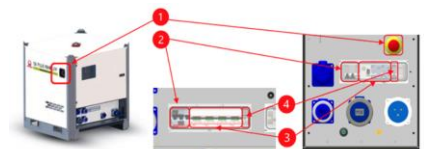


Figure 11 - Power distribution panel

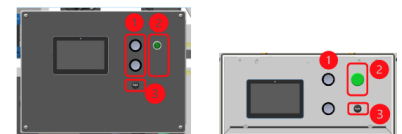


Figure 10 - Start-up procedure SX plus on left and SX on right

Operation

- Plug in machines and/or appliances to be powered by the generator or in the case of the larger units have the cables hard wired in
- Turn on master power outlet control switch/circuit breaker
- Check any panel gauges and instruments (if applicable) for correct operating range
- Ensure you don't exceed the output of the Unit (if unsure check with your local hire branch or a registered electrician)

Stopping and After Use

- Set the output MCBs and RCBOs to the OFF position.
- Press the 'OFF' button on the front panel to shut the system down, the green 'BATTERY ON' LEDs will extinguish.
- Press the Emergency stop button.
- Isolate any incoming supply feed and disconnect all cables from the unit