



Solar PV and Battery storage system

# O&M Manual

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# Introduction

**Moixa** is an industry leading energy technology company that manufactures smart solar batteries and GridShare software to manage smart charging of batteries and electric vehicles, so that the world can live in a future powered by renewable energy.

This document is intended as a brief guide to operation and maintenance of Solar PV and battery installations provided by Moixa Technology Ltd. For further information about the operation and maintenance of individual components of the system, please view the applicable user manuals accompanying this document.

# Key contacts

The solar PV installation and battery installation has been completed by:

## **Moixa Technology Ltd.**

29-31 Saffron Hill,  
London, EC1N 8SW

If you are unsure of any element of the system operation or would like further assistance, please contact Moixa support on the details below:

**Web:** [www.moixa.com](http://www.moixa.com)

**Email:** [support@moixa.com](mailto:support@moixa.com)

**Tel:** 0207 734 1511

## MCS

The MCS (Micro-Generation-Certification scheme) creates and maintains standards that allow for the certification of products, installers and their installations in the renewable energy sector.

### **Contact details:**

**Web:** [mcscertified.com](http://mcscertified.com)

**Tel:** 0333 103 8130

**Email:** [hello@mcscertified.com](mailto:hello@mcscertified.com)

## HIES

HIES (Home Insulation & Energy Systems) is a leading consumer protection organisation with a Chartered Trading Standards Institute (CTSI) Approved Consumer Code. Your installation has been registered with HIES who provide consumer protection as well as an independent installation warranty.

### **Contact details:**

**Web:** [www.hiesscheme.org.uk](http://www.hiesscheme.org.uk)

**Tel:** 0344 324 5242

**Email:** [info@hiesscheme.org.uk](mailto:info@hiesscheme.org.uk)

**IMPORTANT:** In case of fire or immediate danger to health, evacuate the property and contact the emergency services.

# Procedures for verifying correct system operation

## To check the battery system is operating correctly:

1. Check your Moixa Dashboard or App. Here you should be able to see the amount of energy stored in the battery increasing and decreasing throughout the day with your solar generation and household consumption

## In order to check that the PV system is operating correctly:

1. Check the PV inverter is showing a constant green light
2. Check the PV system for any error messages
3. Check the generation meter LED is flashing (this can be very slow) and that the numbers on the screen are increasing

# Action in case of a PV system failure

If your solar PV system is not operating correctly, carry out the following steps:

1. Confirm the PV system should be generating (I.e. there is sunlight and the solar panels are not covered by snow etc)
2. Check the PV inverter for any error lights or messages – Consult your manual for what these indicate
3. Check the Generation meter;
  - a) If the screen is blank this indicates that the generation meter may be faulty
  - b) If the light is showing a solid red, this indicates there is likely a problem with the PV system
4. Check the isolators
  - a) All isolators should be switched to the 'on' position
5. Check the circuit breaker
  - a) The Solar PV circuit breaker should be in the 'on' position, if this trips more than once within a 48 hour period, please contact Moixa support
6. Switch the system off and on (See instructions below)
7. If the error persists contact Moixa support

**IMPORTANT:** Electrical work should only be carried out by appropriately trained professionals. The solar PV and battery system must be isolated before carrying out any work on the building's electrical system, this includes work on the DC (Solar PV) electrics.

If your battery system is not operating correctly, please contact Moixa support.

# Solar PV and battery shutdown and startup procedures

## In order to shut down the solar PV and battery system:

1. Turn the DC isolator(s) to the 'Off' position
2. Turn the AC isolator(s) to the 'Off' position
3. Switch the Battery and solar PV circuit breaker to the 'off' position

## In order to startup the solar PV and battery system:

1. Wait 30 seconds if the system has just been shut down
2. Turn the DC isolator(s) to the 'on' position
3. Turn the AC isolator(s) to the 'on' position
4. Switch the battery and solar PV circuit breaker to the 'on' position

# Considerations for any future building works adjacent to the PV array

Considerations should be made, when planning building works adjacent to the PV array(s), of any effect the work might have on the solar panel production, in order to avoid potential damage or shading of the PV array.

For information regarding the shading used in assessing the performance of your system, please refer to the sunpath diagram included in your handover pack.



