

Upload Guidelines for Multiple Serial Number Barcodes

Background to Mapping with Barcode Stickers

As part of the SolarEdge installation process, mapping the location of Power Optimizer serial numbers on site is required. This is to ensure that the correct system data is transferred to the Monitoring Platform based on the accurate location of each Power Optimizer.

There are several ways you can capture serial numbers in order to map your site's Power Optimizers:

1. Using the SolarEdge Mapper mobile app to scan the Power Optimizer barcode stickers
2. Manually adding serial numbers prior to Monitoring Platform telemetry, then entering each serial number found on the relevant serial number sticker into the Layout Editor web software
3. First waiting for Monitoring Platform telemetry following site commissioning, so that the serial numbers will then be automatically populated in the Layout Editor web software

Introduction

This document details a new method for adding barcodes by using a camera to capture the relevant barcode stickers. The Layout Editor will recognize the sticker via a sophisticated image processing algorithm and will automatically upload all serial numbers into the serial number list.

How to Capture Barcode Sticker Images with a Camera

Any available camera, including smartphone cameras, can be used to capture an image of the barcode stickers.



Figure 1: QR code example

- Each image can contain up to 150 barcode stickers. If more are required, take another image and upload it to the Layout Editor separately
- Verify the barcode stickers are placed on a flat surface, are clearly visible and are in sharp focus
- Ensure there is a clear distance of 1cm from the image edges. No stickers should be placed within this perimeter
- Take the photo with the best lighting available, and verify that there is no visible shading from other objects in the image
- It's recommended to place the barcode stickers so that the numbers are top aligned (not upside down) and easy to read. This will help adding any numbers manually, if they are not automatically detected

How to Upload the Barcode Images to the Layout Editor

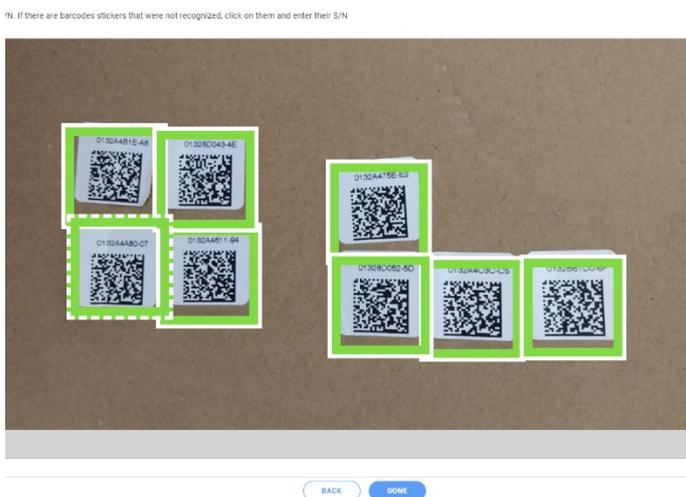
1. From the Layout Editor software, click on the **Barcode sticker scanning** button located in the top bar of the Mapping tab
2. Drag the desired image to the menu or simply upload the file from your computer. All the detected barcodes will be marked with a green outline box



3. Click any sticker that is not highlighted with a border around it, and manually enter its serial number



4. Once you're done, the serial numbers will be automatically added to the side panel for you to assign their location on the map.



Note: It is important to assign all the serial numbers uploaded to the map or an inverter before finishing the session or refreshing the screen. Otherwise, it may cause the uploaded numbers to be discarded.