

## European Solar and Energy Storage Solutions

# The barcode on the photovoltaic panel cannot be scanned

**ESS**

**40.96kWh**



**61.44kWh**



## Overview

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Recording all serial numbers early smooths the warranty-claim process and prevents the need for additional steps when module replacement is urgent. As modules are replaced, swapping recorded serial numbers is an easy way to quality-control that the correct modules are removed and replaced. This ensures the digital.

Serial-number scanning requires a mobile phone with the Raptor App downloaded on iOS or Android Bluetooth barcode scanners are highly recommended to scan serial numbers efficiently A reliable Bluetooth barcode.

The Digital Twin will display specific colors based on the status of the serial number scan: 1. GREY = Unscanned Rows 2. YELLOW = Incomplete Scanned Rows 3. RED = One or more.

Identify serial number location on modules to be scanned (front glass, backsheet label, etc.). In general, users will want to scan from one end of a row to another and move sequentially through.

The Raptor Maps app provides an intuitive and fast method of digitizing serial numbers for PV modules. This article walks through how to use the Raptor Maps app to successfully scan and store serial numbers into the digital twin for future use.

The Raptor Maps app provides an intuitive and fast method of digitizing serial numbers for PV modules. This article walks through how to use the Raptor Maps app to successfully scan and store serial numbers into the digital twin for future use.

Scan barcodes on PV modules, using our mobile app or any Bluetooth scanner. Raptor Scanner will automatically tag each serial number to the correct module and the corresponding GPS location on your site. Our platform validates all scanned solar panel serial numbers against OEM master lists and flash reports for an extra step of QA/QC.

To query the authenticity of LONGi PV module, please enter the product barcode, which is a string of numbers on the front or back of the module.

Watch these step-by-step instructions about how to quickly scan a SolarEdge smart panel with our Mapper app. The Mapper app provides SolarEdge installers with.

If one of the barcodes can't be scanned because the image is blurry or the sticker has started to fade, that barcode can't be registered. That being said, manual scanning is not always the better solution. How do I know if my PV modules have been shipped?

Before you unpack your modules, check the shipping label to ensure you received the right modules. Once you unpack your modules, check the module frame serial number and model label against the shipping label. The serial number is the unique identifier of each PV module.

Where is the serial number on a PV module?

The serial number is the unique identifier of each PV module. A protected copy of the barcode is located on the front top-left corner under the glass and cannot be removed or damaged. The matching serial number is located on the frame and on the rear of the module.

Are all solar modules tagging the same?

The same is possible and increasing reality with solar PV modules. In the PV industry, nearly all of us have seen or come across one type of solar module tagging: serial number barcodes. However, when large numbers of solar modules are installed in a power generation system they will usually all look alike.

What is a product barcode?

The product barcode is a string of numbers on the front or back of the module as shown in the figure. To query the authenticity of LONGi PV module, please enter the product barcode, which is a string of numbers on the front or back of the module.

How does the layout editor recognize 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. Any available camera, including smartphone cameras, can be used to capture an image of the barcode stickers. Each image can contain up to 150 barcode stickers.

Can an RFID reader read multiple PV modules at a time?

While only one barcode can be scanned and read at a time, an RFID reader can read dozens of modules simultaneously and do not require close physical contact and sight between the reader and the tag. Good RFID readers are capable of singulating a specific PV module for quick tracking.

## The barcode on the photovoltaic panel cannot be scanned



### The best practices of scanning serial numbers

If one of the barcodes can't be scanned because the image is blurry or the sticker has started to fade, that barcode can't be registered. That being said, manual scanning is not always the better solution.

### QR Code Based Solar Panel Data Monitoring System ...

QR code is basically used to store and share any content, here in this paper an advanced technique is used to store the solar panel data in QR code in video form followed by developing a web



### Why Your Barcode Scanner Doesn't Work: Common ...

Verify that the barcode scanner software and the system it connects to are compatible. Reinstall the scanner drivers if necessary and consult the software's support resources for further troubleshooting steps. 6. Power ...

### DroneBase Serial ID App Makes It Simple to Scan and Geotag Solar Panel ...

Two seconds with a smartphone enables every developer to scan, store and easily search solar panel data required for successful recall, warranty, and insurance claims. ...



## Raptor Maps

Scan barcodes on PV modules, using our mobile app or any Bluetooth scanner. Raptor Scanner will automatically tag each serial number to the correct module and the corresponding GPS location on your site. Our platform validates all ...

## RFID chip in solar modules: efficient tagging and

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## SolarEdge Mapper app Helps Install and Scan PV Systems

Creation, editing and on-site verification of system physical layout. Scanning and assigning SolarEdge power optimizer and inverter barcodes to the right location in the system physical layout. Parallel site mapping using multiple devices to ...

## Barcode/RFID tech in solar and energy systems with Bartech

Barcode and RFID technologies play a crucial role in managing solar panel inventory. Each solar panel can be labeled with a barcode or an RFID tag, enabling efficient identification, recording, ...



## Enphase Energy Uses the Socket 7Xi Scanner with Apple iPhone ...

SocketÂ announced that Enphase Energy âEUR" aÂ manufacturer of microinverter technology for the solar industry with more than 44,000 installations around the world âEUR" has ...

## RFID Solar Panel Management System , Solar PV RFID Solution ...

ID Tech Solutions being the leading RFID solar panel management system provider in India designed Solar PV RFID Solution that writes data into RFID Solar tags that are stuck on Solar ...



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