



UNIQUE & INNOVATIVE SOLUTION  
**NFC** CHIP READER AGAINST PIRACY

✓ **UNIQUE NFC CHIPS**

✓ **INNOVATIVE OPPORTUNITY**

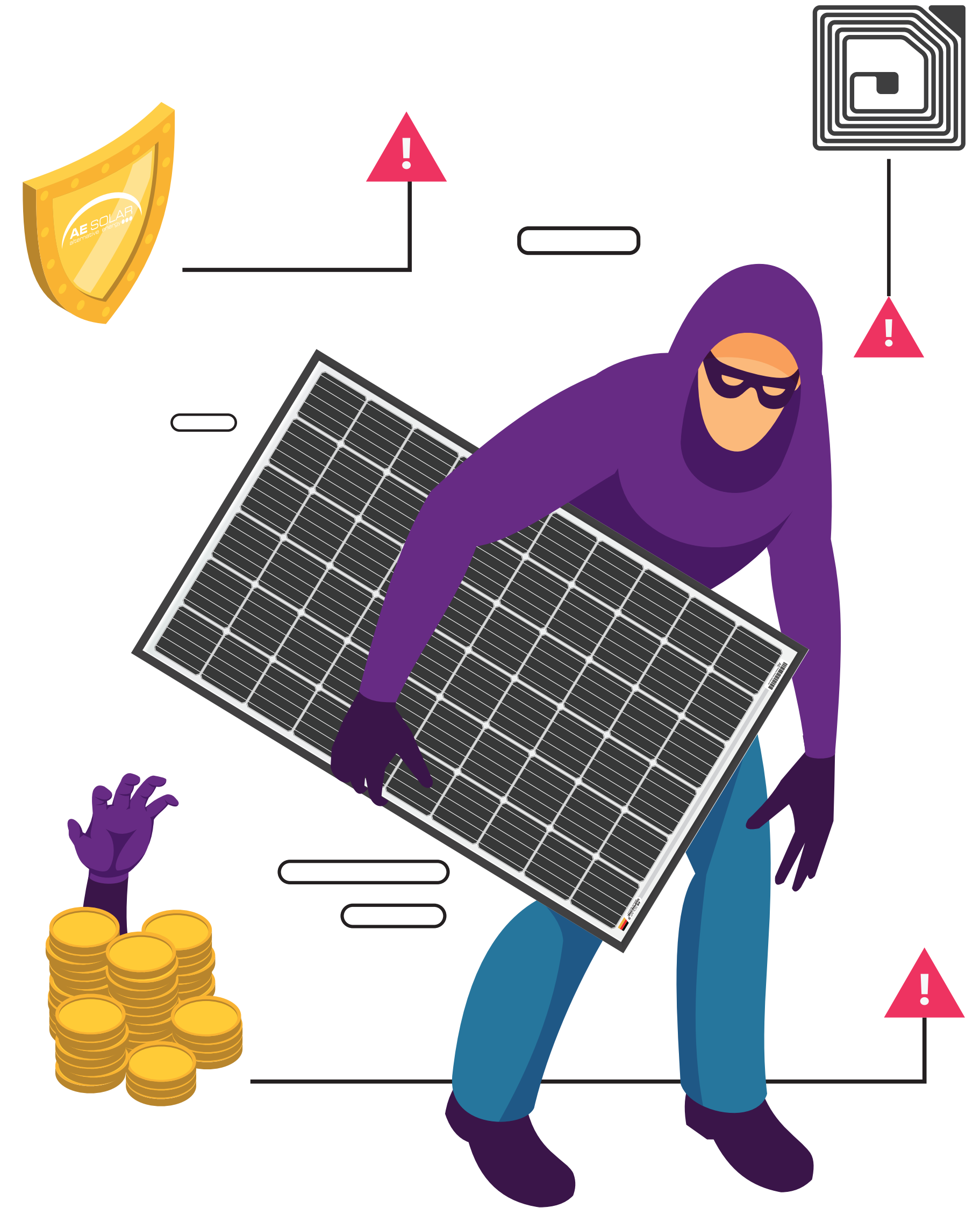
✓ **ZERO PIRACY**

# PIRACY PROBLEM

AE Solar integrates NFC chips in all of its panels against piracy

There has always been piracy problem in the Solar industry. Mostly that issue has touched the companies, which are already known, well established and trusted in the market.

Fake branded, low-quality PV modules with a short lifetime and high degradation under trustworthy faked brand names are causing big losses for end customers and for the original brands.





# COPYCATS

AE Solar integrates NFC chips in all of its panels against piracy



We have feedbacks from our customers on fake branded solar panels in the market. There are many bad quality copycats under the AE Solar brand name. Only at [www.alibaba.com](http://www.alibaba.com) there are more than 24 kinds of AE Solar fake branded PV modules appearing for purchase online now.

This situation is not only damaging our image and reputation, but also became a reason for financial losses of customers.

They cannot receive promised quality, efficiency and warranty from fake branded PV modules.

# SOLUTION

AE Solar integrates NFC chips in all of its panels against piracy

This challenge prompted AE Solar to create a unique solution for customers.

AE Solar made another innovation and integrating NFC chips into all PV modules serially manufactured.

Mobile application available on iOS and Android allows customers to scan a solar module's barcode, NFC chip and check its authenticity. Unique integrated NFC chips in each module and an application together are the trustworthy tools for customers to assure that the product is not fake.

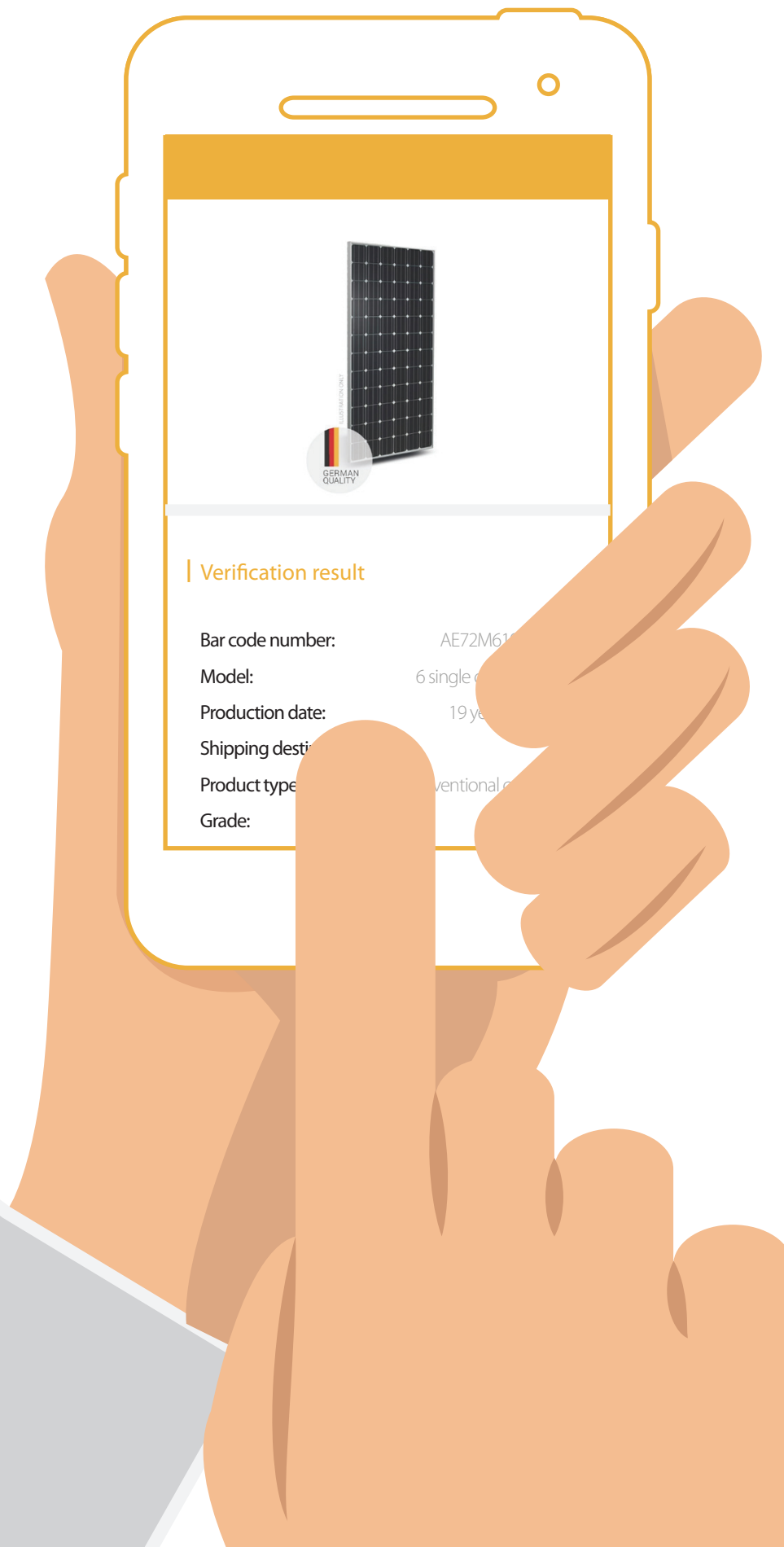
The integrated NFC chip is not affected on price solution providing safety and confidence for you.







Original  
PV Module



# MOBILE APPLICATION BENEFITS

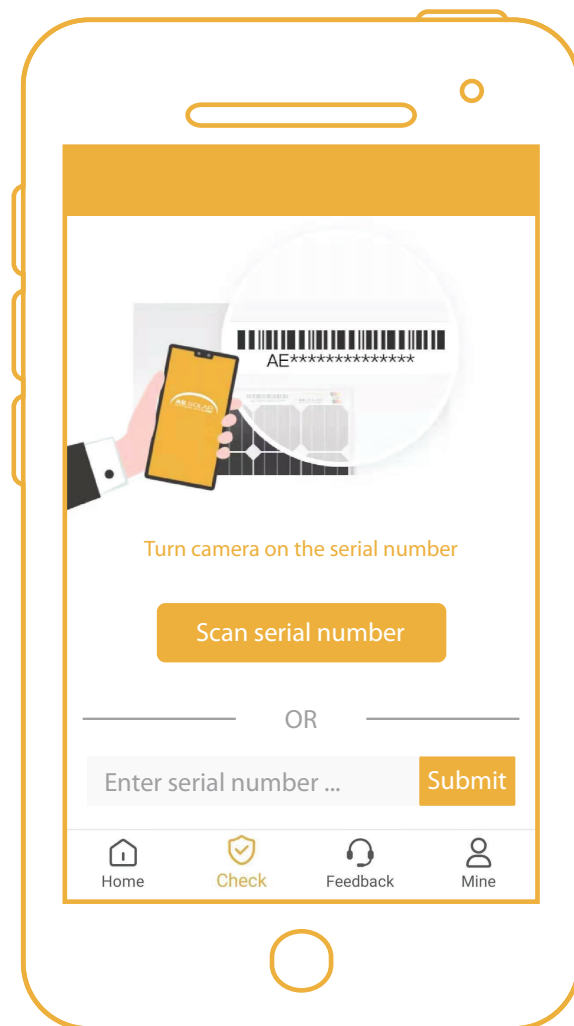
AE Solar integrates NFC chips in all of its panels against piracy

- APP is free for downloading and available for iOS and Android
- Easy registration and intuitive design of APP
- Bonus system for customers
- Shows the customer information about PV module
- Easy direct communication with manufacturer, feedback from the professional team
- We can receive information about existing fake modules and help customers to avoid related risks

*AE Solar innovative solution will secure our customers from purchasing fake PV modules.*

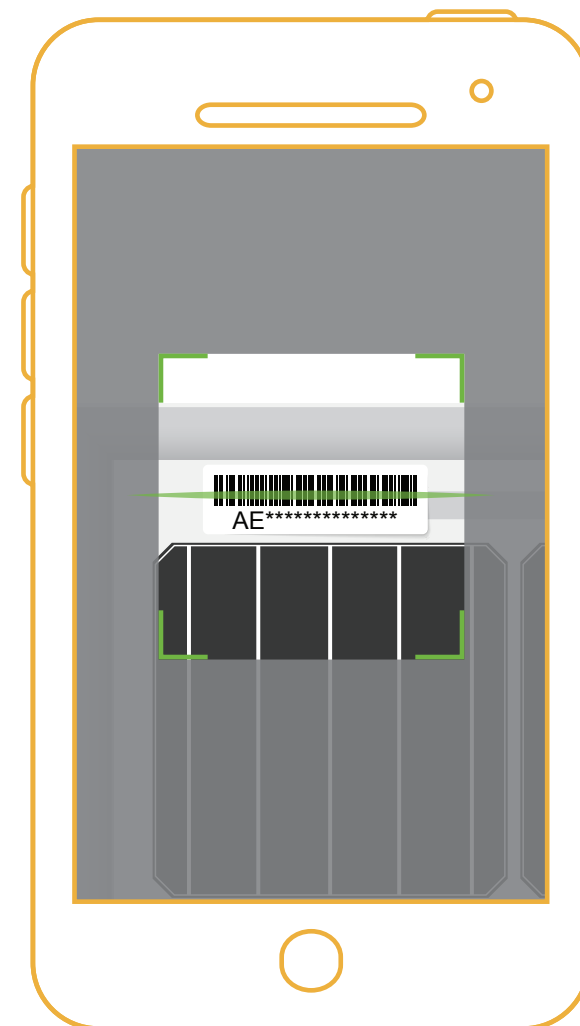
# USER MANUAL

AE Solar integrates NFC chips in all of its panels against piracy



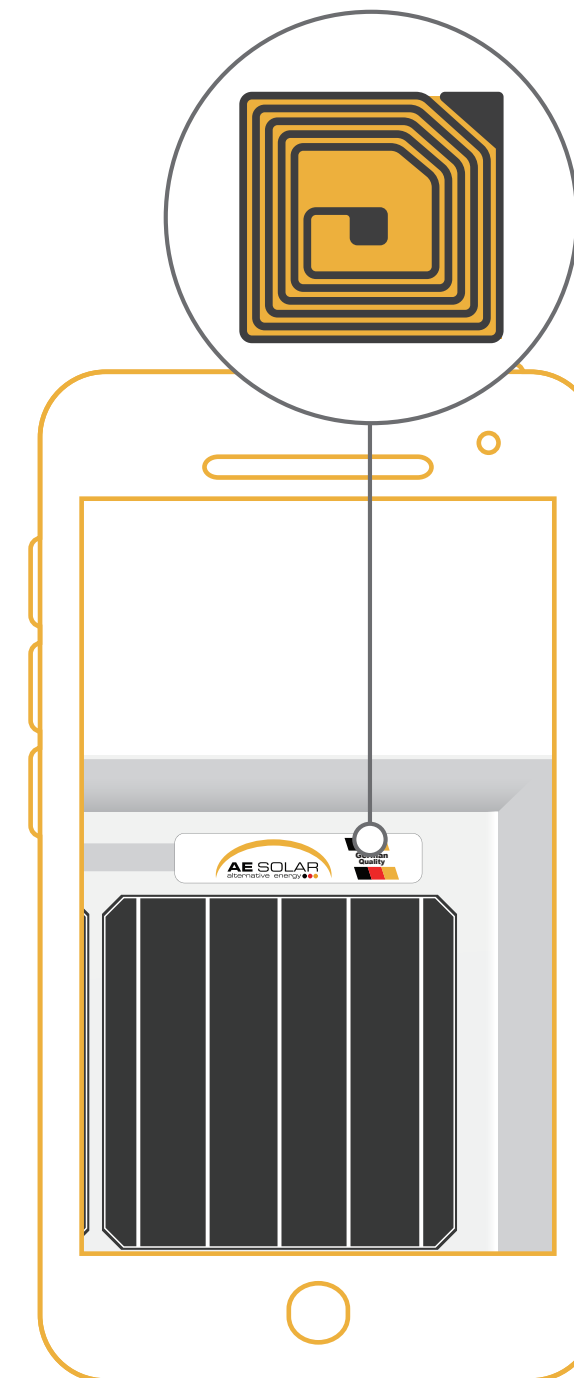
## Turn camera on

Turn on Camera at serial/barcode number or enter serial number manually



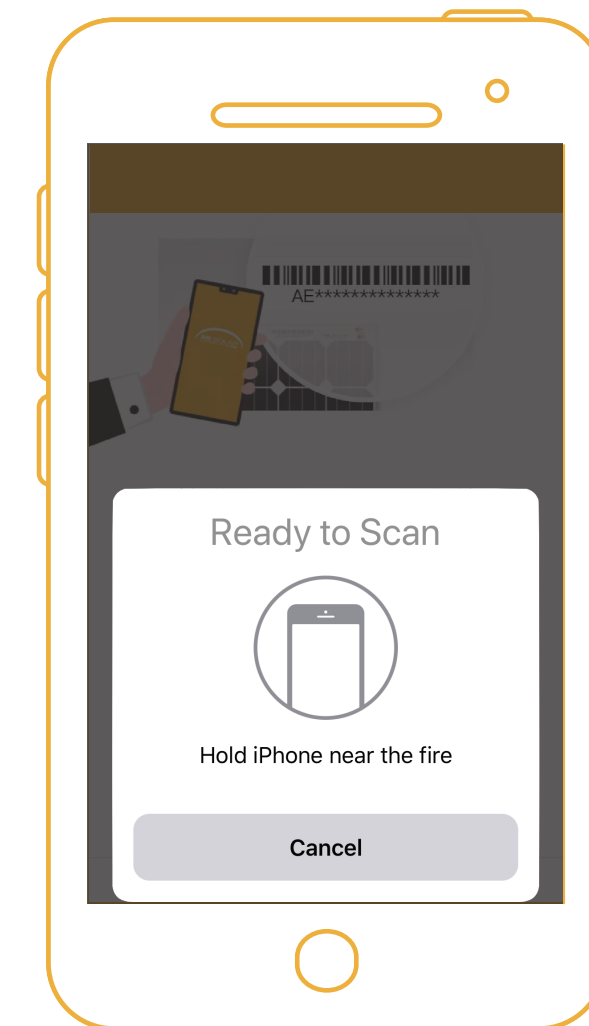
## Scan serial number

Scan serial number/barcode to verify



## NFC chip

Each PV Module comes with a unique integrated **NFC** chip



## Scan NFC chip

To scan NFC chip put the phone closer to the **“GERMAN QUALITY”** logo label

*The application requires NFC support, internet connection and access to the camera.*

# ABOUT US

AE Solar integrates NFC chips in all of its panels against piracy



AE Solar GmbH is founded in 2003 at Königsbrunn, Germany.

AE Solar has presence in 70+ countries and has annual PV modules manufacturing capacity more than 1GW.

AE Solar is well-known for its another innovation as well - The world's first Smart Shading Resistant Hot-spot Free PV module.

The Shading Resistant technology is award winner of SNEC Highlights 2017, TOP INNOVATION 2018 by PV Magazine and Finalist of Intersolar Awards 2019.





For more information, please visit **[WWW.AE-SOLAR.COM](http://WWW.AE-SOLAR.COM)**

ARTICLES & PUBLICATIONS

