

2022

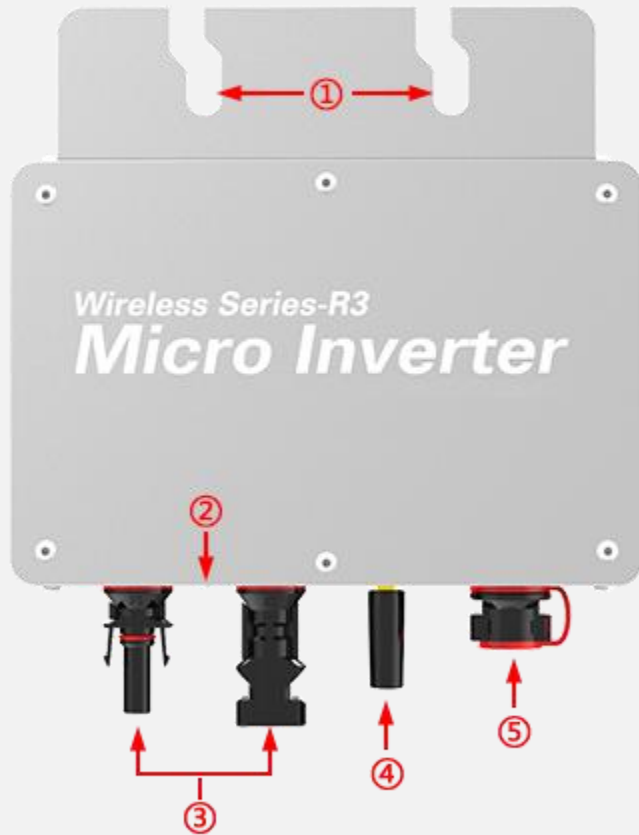
Micro Inverter

CONTENTS

- 01.** WVC-295 Micro Inverter
- 02.** WVC-300 / 350 Micro Inverter
- 03.** WVC-600 / 700 Micro Inverter
- 04.** WVC-1200 / 1400 / 1600 Micro Inverter
- 05.** WVC-2000 / 2400 / 2800 Micro Inverter
- 06.** Zero output controller
- 07.** IoT APP monitoring total output controller
- 08.** PWM solar controller
- 09.** Energy storage grid-connected electric cabinet

WVC-350 Micro Inverter

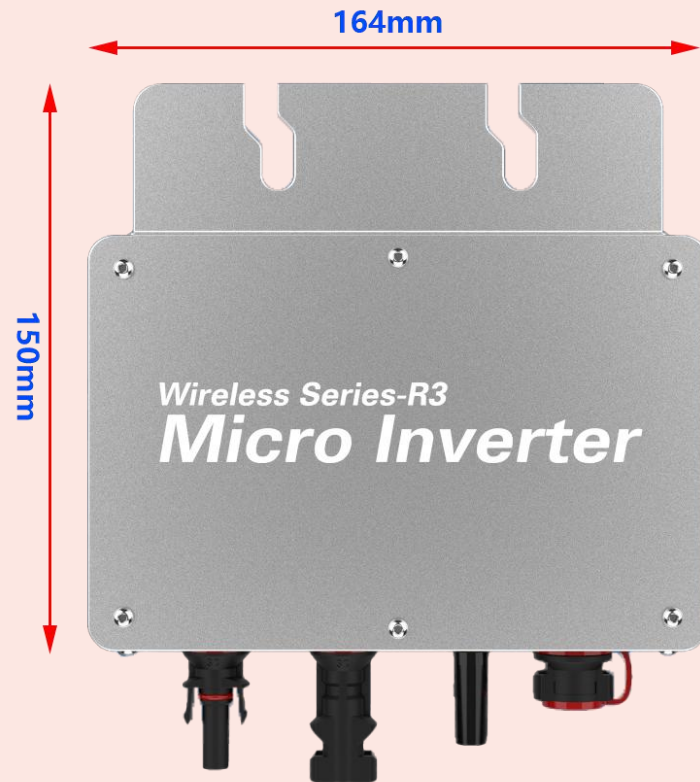
Communication mode : WiFi/433MHz



- ① Inverter fixed position
- ② Work indicator
- ③ DC input
- ④ Communication antenna
- ⑤ AC output

Model	WVC-350	
Maximum input power	1*435Watt	
Output voltage mode	120/230V Auto	
Open circuit voltage range	30-60Voc	
Peak power tracking voltage	22-60V	
Min/Max starting voltage	22-60V	
Maximum DC short circuit current	18A	
Maximum input working current	16A	
Output	@120V	@230V
Peak output power	350Watt	350Watt
Rated output power	330Watt	330Watt
Rated output current	2.91A	1.52A
Rated voltage range	85-160V	185-265V
Rated frequency range	47~52/57~62Hz	47~52/57~62Hz
Power Factor	>95%	>95%
Maximum number of branches	15 Pcs (Single)	30 Pcs (Single)

Streamlined design



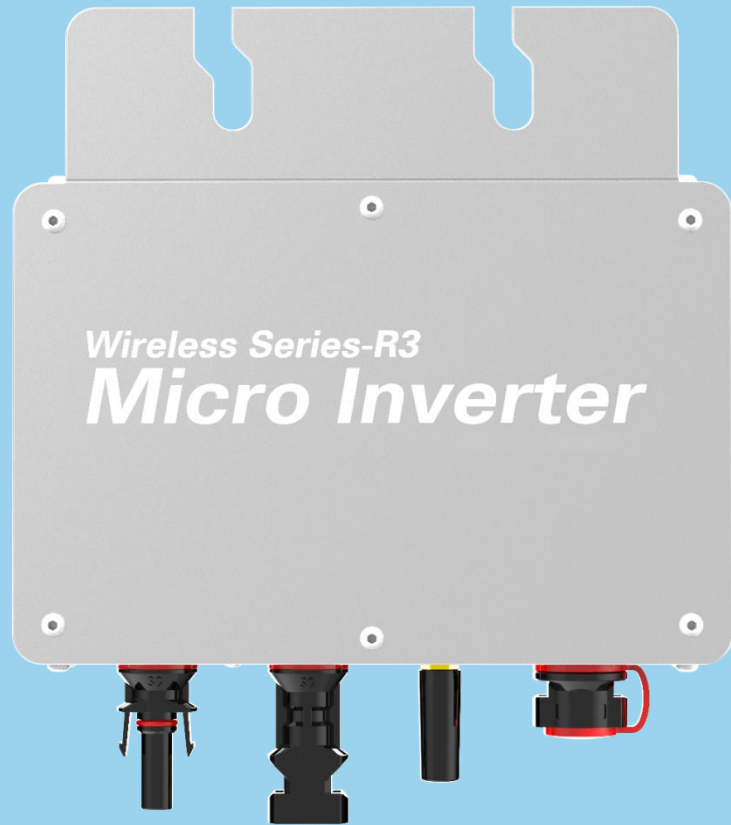
Output efficiency	
Static MPPT efficiency	99.5%
Max output efficiency	95%
Loss of power at night	<0.5W
Total current harmonics	<5%

Appearance and technical features

Temperature range	-20°C to +50°C
Size (L×W×H)	165mm×176mm×38mm
Net amount	0.82kg
Waterproof grade	Ip65 Nema4x
Heat dissipation mode	Self-cooling
Communication mode	433MHz
Power transmission mode	Reverse transmission,Load priority
monitoring system	APP、 PC
Electromagnetic Detection	EN50081.part1EN50082.part1.CSA STD.C22.2 No.107.1
Power Grid standard	EN61000-3-2 EN62109.UL STD.1741
Power grid detection	DIN VDE0126 IEEE STD.1547.1 1547.A
Certificate	CEC,CE,ETL

Packing weight

Specifications	Each (Packing)	Box (15 Pcs)
Weight	1.28 KG	19.5 KG
Size	245×202×60mm	450×395×345mm



Powerful power generation, efficient conversion, IoT monitoring

WVC-350 Micro Inverter

High efficiency MPPT / independent high frequency modulation and grid connection / cloud intelligent IoT monitoring multiple inverters stacked / compact and portable / easy to install

WVC-350 Micro Inverter



Streamlined design

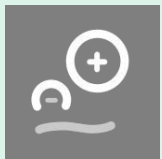
Acid and alkali resistance and oxidation resistance, the product is more beautiful and generous, and will never fade in the outdoor environment

- Streamlined design
- Acid and alkali resistance
- Aluminum shell
- Bright silver sandblasting
- Oxidation treatment
- IP65 waterproof design
- Never fade

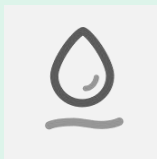
IP65 waterproof design

High voltage anode treatment, acid and alkali resistance, oxidation resistance

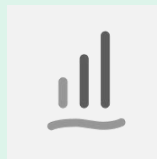
IP67 waterproof rating to prevent rainwater intrusion
High pressure electrolytic oxidation surface treatment
High-quality aluminum alloy shell, beautiful and generous



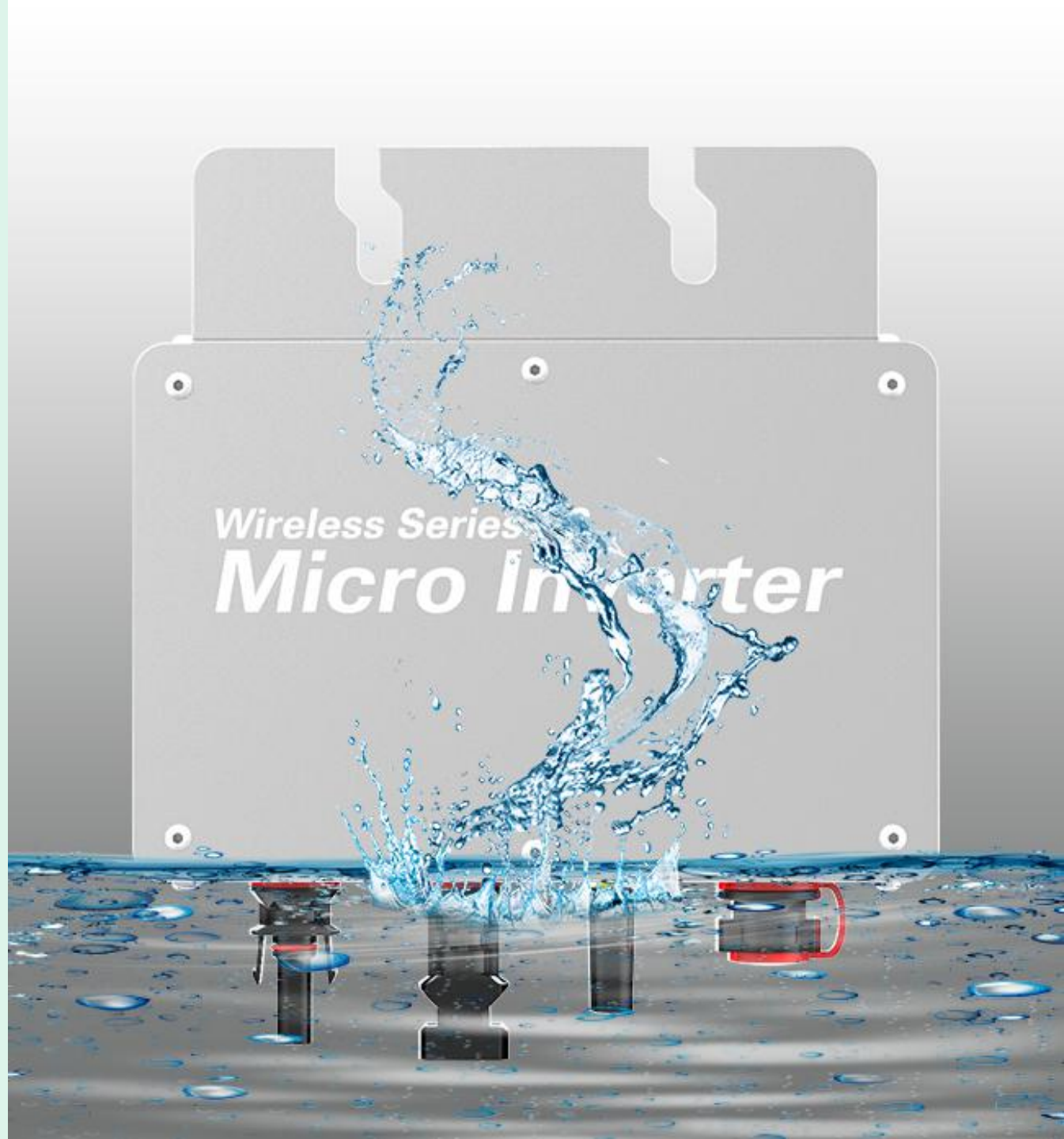
High precision
MPPT
Increase power generation

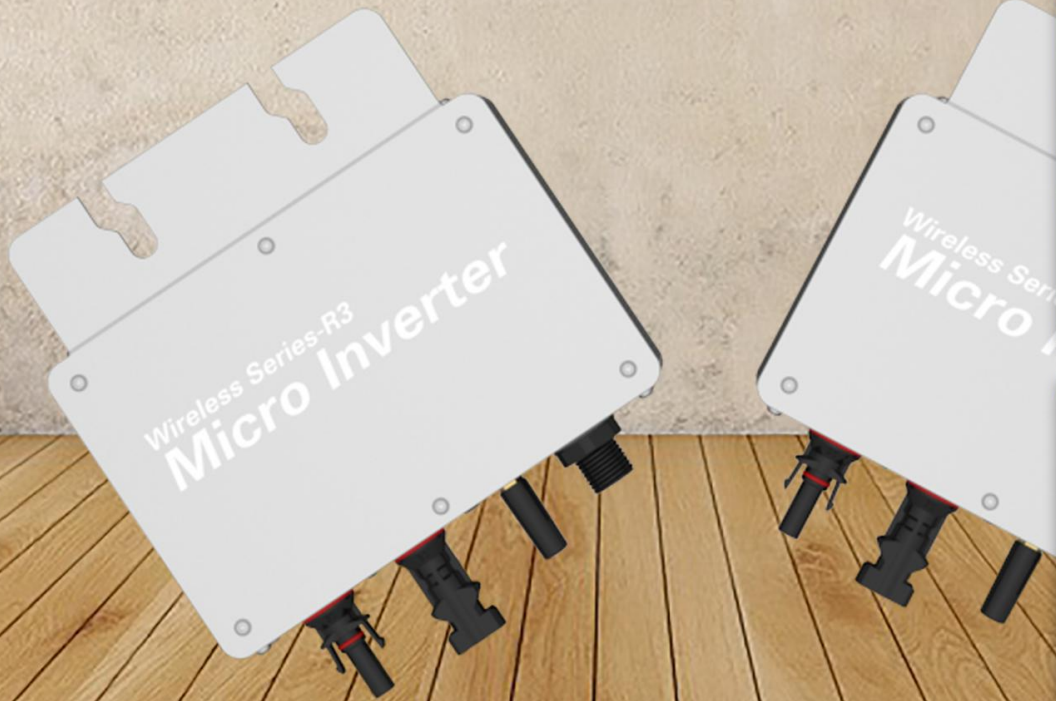


IP65
waterproof
Suitable for outdoor



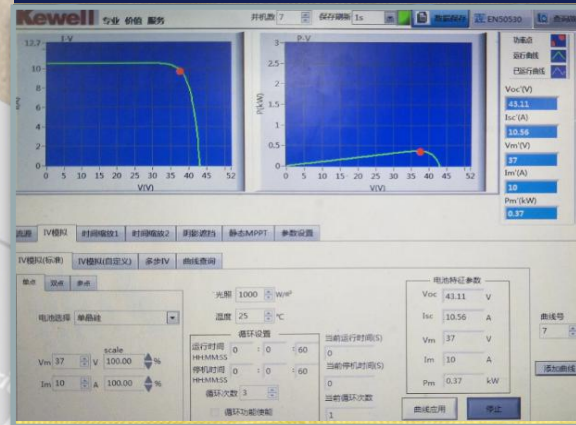
Increase power generation
Automatic power tracking





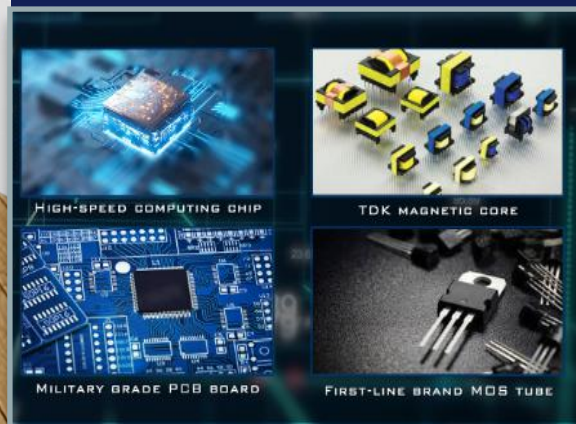
MicroChip CPU

High-speed digital processing chip, more stable operation Multi-channel PWM output, large digital processing



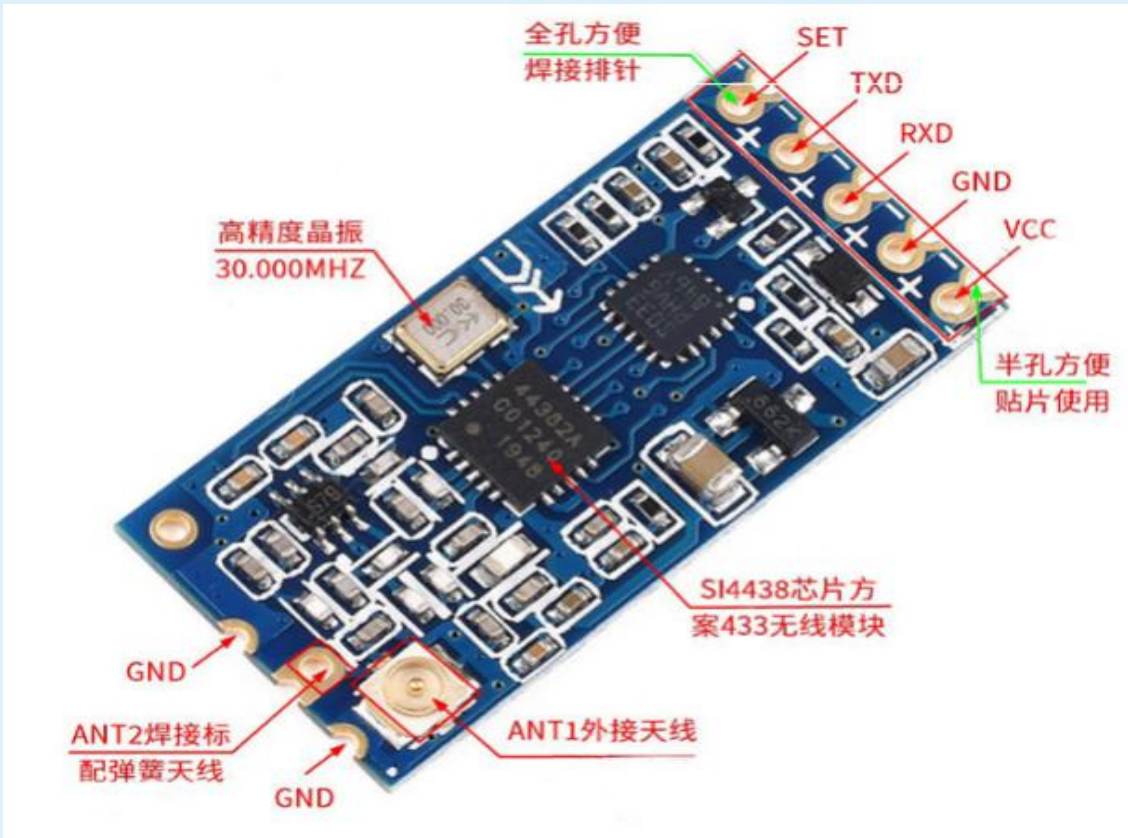
4 channel MPPT control

Multi-channel maximum power point tracking (MPPT) High-speed, high-precision capture of sunlight Let the photovoltaic system generate more power and higher efficiency



LLC power chip management

High-performance PWM controller, everything is under your control, double-ended full-bridge topology

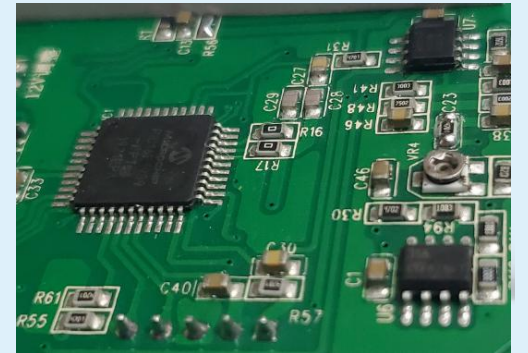
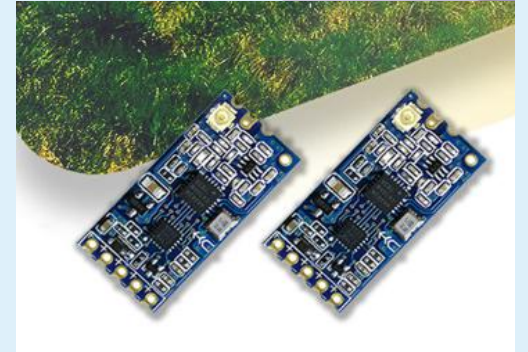


EMW3380 communication module

Built-in ARM Cortex v8 dual-core processor, voice processor and Flash flash memory 2.4/5G Hz dual-band Wi-Fi, BLE 5.0, audio Codec, PSRAM, rich peripherals

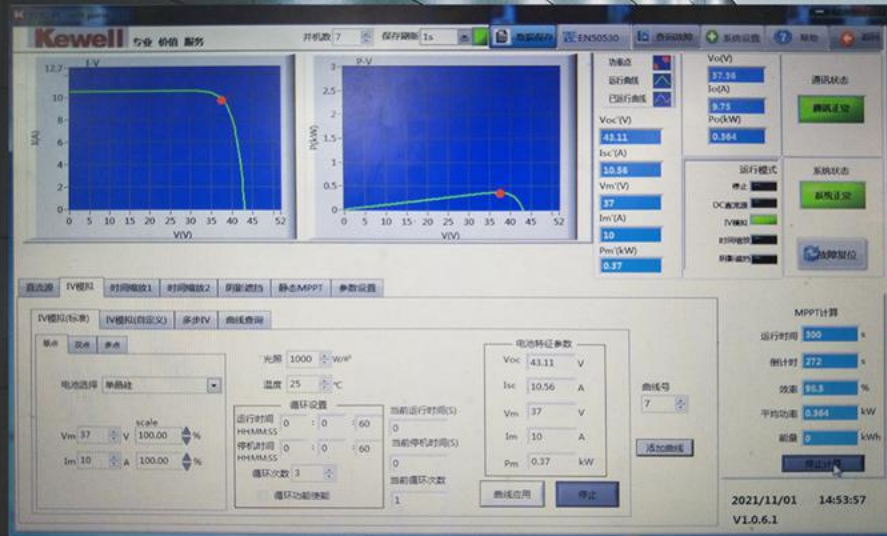
LONG-DISTANCE TRANSMISSION

- ◆ ARM v8-M architecture dual-core CPU
- ◆ 802.11 2.4/5GHz dual frequency
- ◆ Low energy Bluetooth conforming to 5.0 standard
- ◆ Working temperature: -20°C to +85°C
- ◆ KM4 core uses 512K SRAM
- ◆ ARM TrustZone-M technology
- ◆ Security boot
- ◆ Support high power mode (10dbm)
- ◆ Support IEEE PowerSave mode
- ◆ Support Antenna diversity
- ◆ Support narrowband mode: 10MHz bandwidth



4 channel MPPT control

Up to 4 channels of Maximum Power Point Tracking (MPPT) can effectively capture the maximum power point of sunlight



MPPT Testing





Multiple single string stacking

Unlimited models, mix and match as you like

Work independently without interfering with each other

System branches and branches work independently, which is different from traditional inverters
Even if a certain group of one road is damaged, it can continue to work.

Higher power generation and better quality



Can be applied to various large, medium and small photovoltaic power plants

Passed Multiple Certifications

Product certification in many countries, including ETL, INMETRO, CE, CEC, and other related certifications. Let you use more assured and trustworthy core photovoltaic inverter products.



EMC





DEMUDA

Core Technology, Intelligent Future

• IoT data technology driven

- Rapid product development
- Flexible APP customization
- Intelligent management
- Global marketing
- Remote start-stop control
- Intelligent solution

• WVC full range of smart products

Covers most languages and supports the rapid development of OEM custom products.

Intelligent products have covered nearly 200 countries and regions including China, the United States, Europe, the Middle East and South-east Asia.



CLOUD INTELLIGENCE

Internet of Things APP,
designed for intelligence



Special Function

Daily battery display

Environmental display

DC input display

AC output display

Double curve query

Power loss inquiry

Output regulation

Remote switch

With 15 years of R&D experience and a gathering of excellent design teams, we have launched an IoT smartphone application APP, starting from multiple perspectives and levels of customers. Meet the different needs of customers, make the system more complete and better!

Cortex-M4 Core processor is faster and more powerful

Equipped with a 433MHz communication module, it can easily respond to the needs of different use environments.

MX1290
125MHz

2.4 G Model
802.11 b/g/n

Software
IOS & Android





SMART HOME LIFE PLATFORM Features:

- Daily and total power generation (kWh)
- The actual DC input voltage, current and power
- Actual AC output voltage, current and power
- CO-2 energy saving and emission reduction
- Historical (daily, weekly, monthly) power curve
- Optional limit of power output
- Inverter start-stop online switching



Intelligent Monitoring System APP



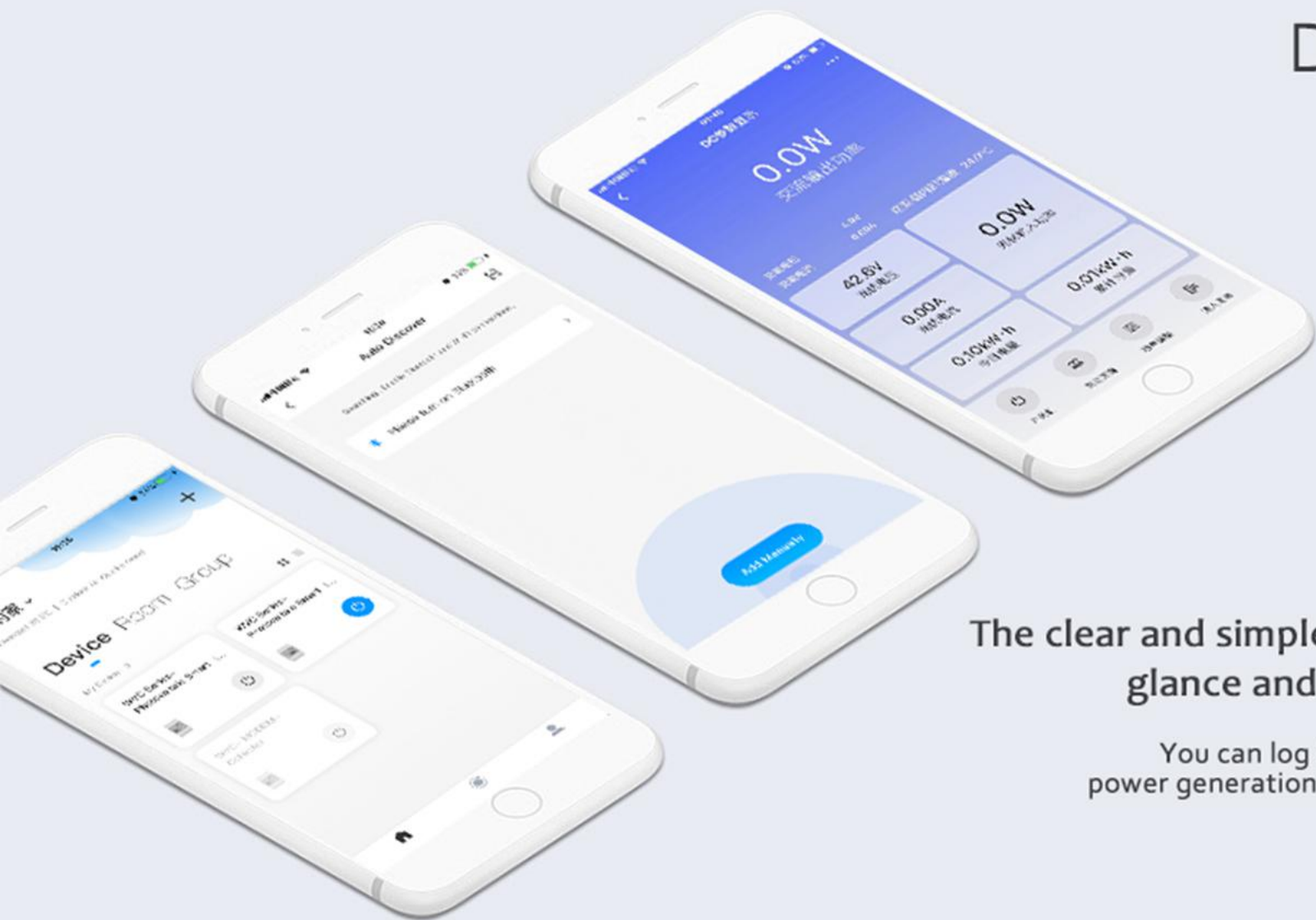
Cloud Intelligence

You can watch each device in real time on the APP to understand the operation of the device in time

If you want to download our app for trial please identify the QR code to download the app>>>>>>>>



Device add interface



The clear and simple module allows users to understand at a glance and quickly complete the addition operation

You can log in to this smart program and use it to view the system's power generation status in real time. At the same time, various functions can be adjusted remotely at any time.



CLOUD INTELLIGENCE

Internet of Things APP,
designed for intelligence



Special Function

Daily battery display

Environmental display

DC input display

AC output display

Double curve query

Power loss inquiry

Output regulation

Remote switch

With 15 years of R&D experience and a gathering of excellent design teams, we have launched an IoT smartphone application APP, starting from multiple perspectives and levels of customers. Meet the different needs of customers, make the system more complete and better!

Cortex-M4 Core processor is faster and more powerful

Equipped with a 433MHz communication module, it can easily respond to the needs of different use environments.

MX1290
125MHz

2.4 G Model
802.11 b/g/n

Software
IOS & Android

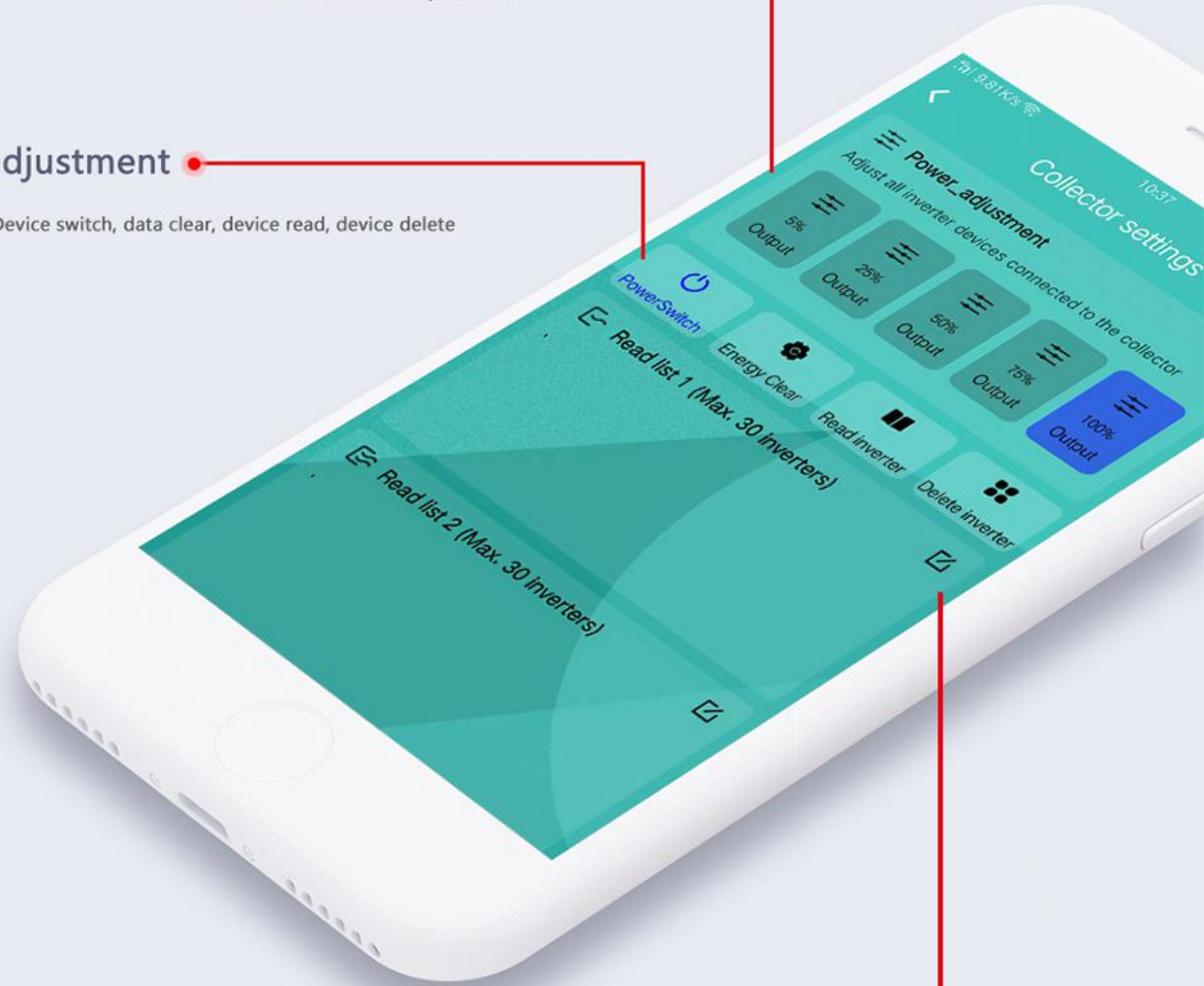


Power adjustment

The output power can be adjusted according to the user's actual electricity demand

Function adjustment

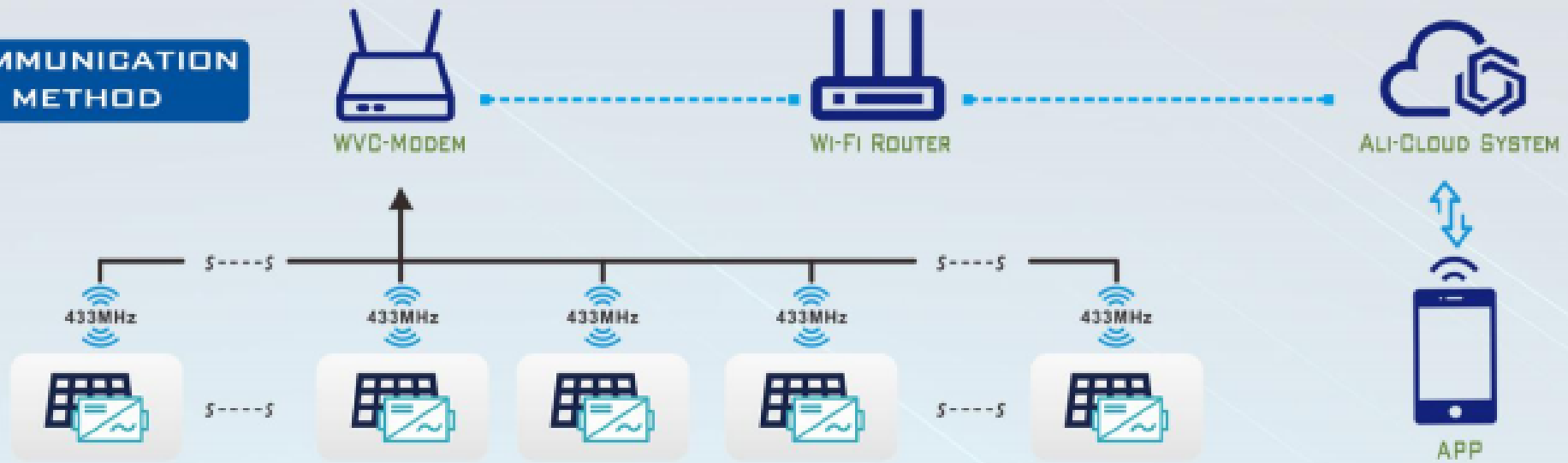
Device switch, data clear, device read, device delete



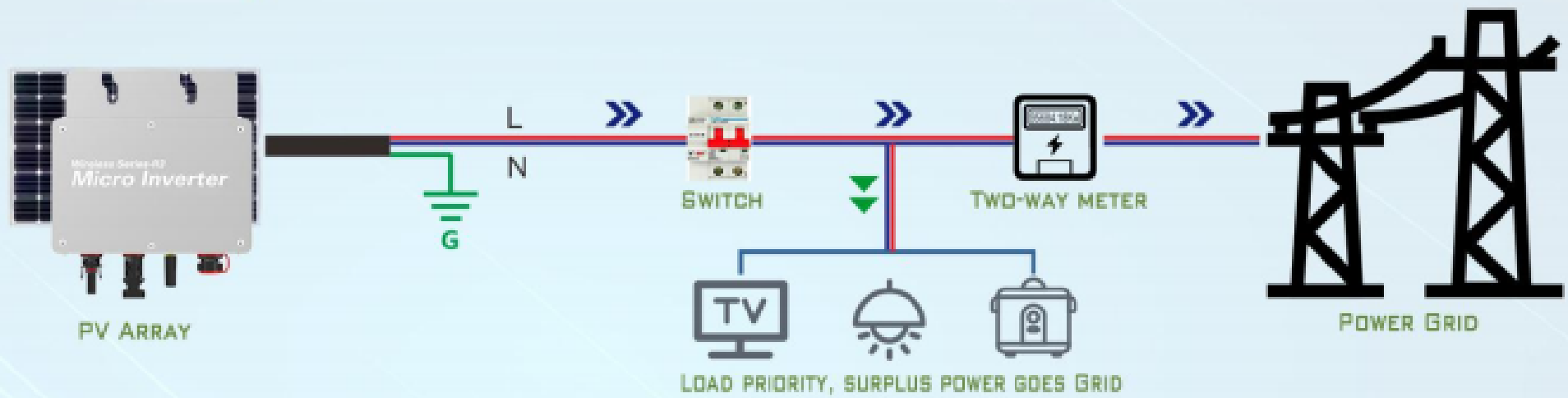
Device List

List of current device serial numbers

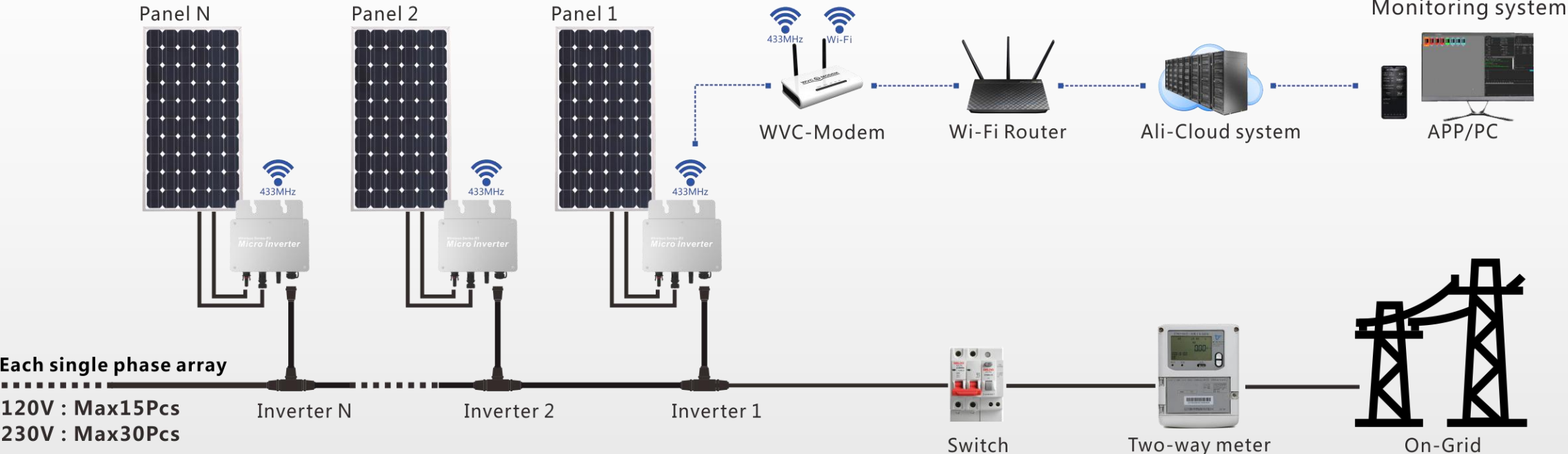
COMMUNICATION METHOD



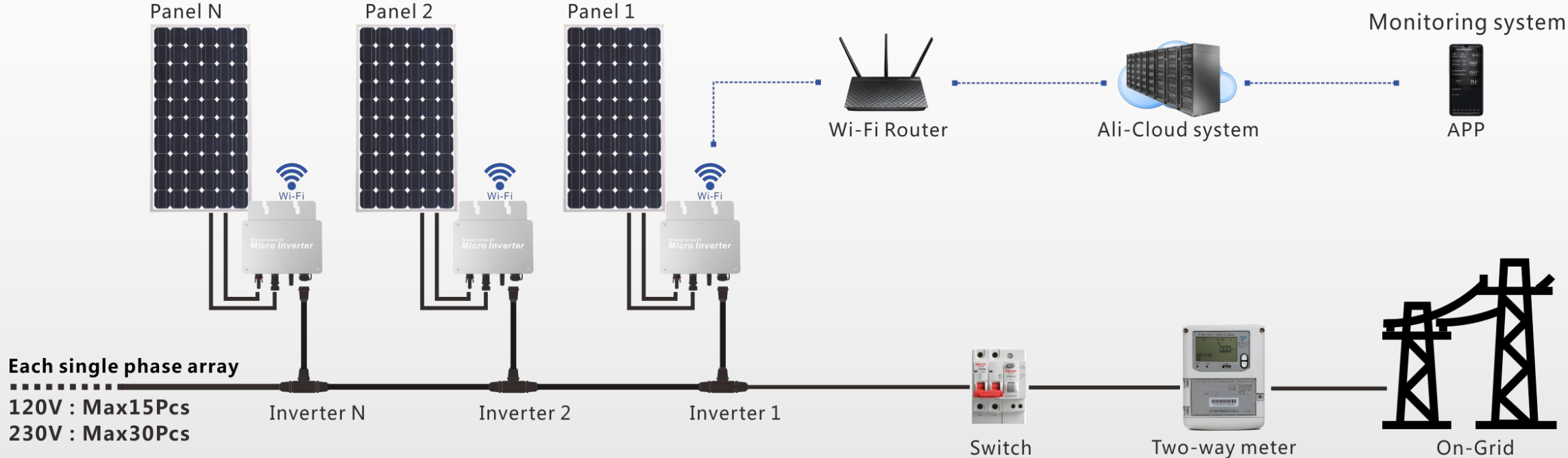
SYSTEM STRUCTURE



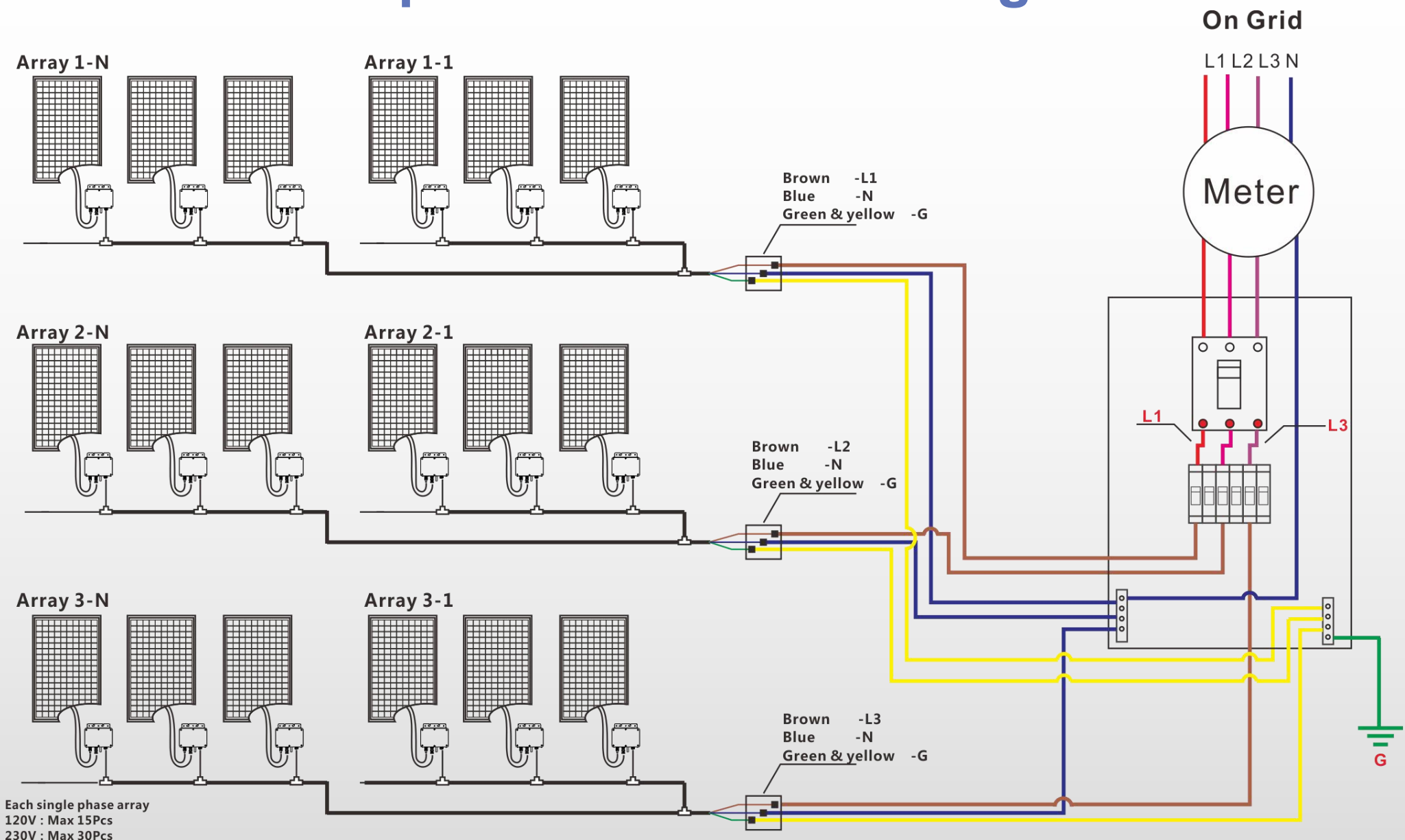
433MHz Communication mode



Wi-Fi Communication mode



Three-phase connection diagram



PV Monitoring APP allows you anytime, anywhere

Support your power station



WiFi-MODEM (Data collector)

Data intercommunication with inverter based on wireless 433MHz communication protocol. Connect to the Internet and upload data to the cloud server in general Wi-Fi mode. Transmission efficiency: 1800 meters in the open area, 500bps in the air. Operating frequency: range 433.4--473.0MHz, up to Transmission power of 100 communication channels: maximum 100mW 20dBm, 8 power levels, suitable for different applications



Thank You