Micro Inverter

Wireless Series-R3
Micro Inverter

Red Protection
Green Search/Lock

WVC-2800(Life)

USER MANUAL

········· Green Energy **Expert** ·········
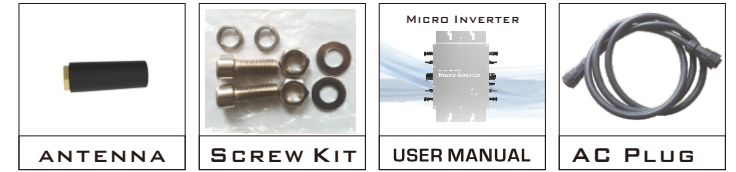········· Smart Inverter

IoT Monitoring Platform

Smart mobile "core" life

- CO-2 induced environmental analysis
- Daily and total energy generation in kWh
- Actual DC input voltage, current and power
- Actual AC output voltage, current and power
- Inverter temperature
- Historical (daily, weekly, monthly) power curve
- Power losses due to weather induced effects
- Optional limitation of power output
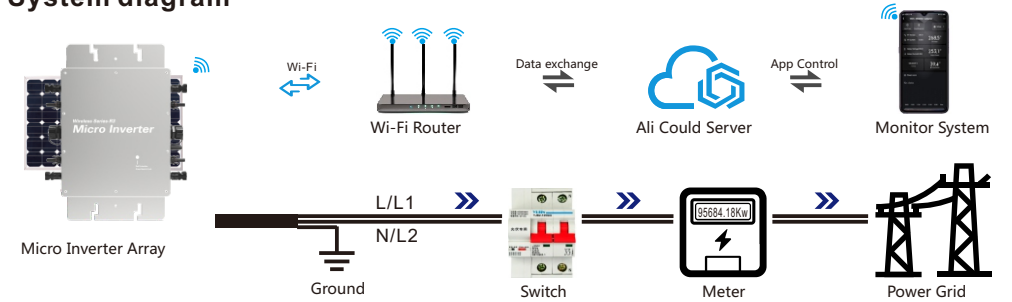- Online switch for the inverter start stop

Download on the **App Store**
ANDROID APP ON **Google Play**

Communication mode

Router   Ali Could Server

Wi-Fi   Wi-Fi   Wi-Fi   Wi-Fi   Wi-Fi

APP

CO-2 induced environmental analysis	Inverter temperature
Daily and total energy generation in kWh	Optional limitation of power output
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Actual AC output voltage, current and power	Historical (daily, weekly, monthly) power curve

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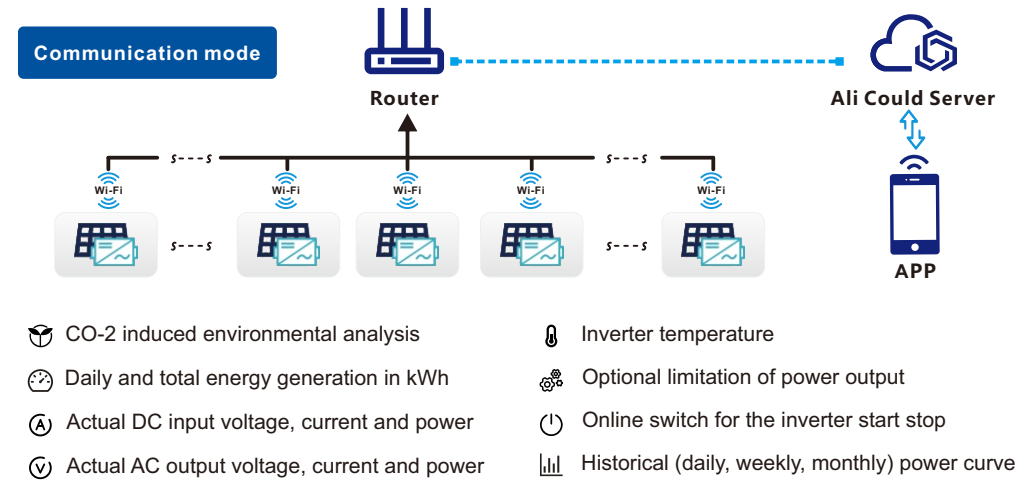
model	WVC-2800	
Recommend use panels	4*875Watt	
Output voltage mode	120/230V Auto switch	
PV Open circuit voltage	33-60VDC	
Operating voltage range	22-60V	
Starting voltage range	22-60V	
short-circuit current	4*32A	
Maximum working current	4*27A	

Output parameters	@120V	@230V
Output peak power	3000Watt	3000Watt
Rated output power	2800Watt	2800Watt
Output current	23.5A	12.2A
AC voltage range	85-160VAC	180-265VAC
AC frequency range	48-51Hz/58-61Hz	48-51Hz/58-61Hz
Power factor	>95%	>95%
Number of branch connections.	2PCS (Single)	4PCS (Single)

Output efficiency	@120V	@230V
Static MPPT efficiency	99.5%	99.5%
Max output efficiency	95%	95%
Loss of power at night	<0.5W	<0.5W
Total current harmonics	<5%	<5%

Appearance and technical features	
Temperature range	-20°C to +50°C
Size (L×W×H)	370mm×300mm×41.6mm
Net amount	3.18kg
Waterproof grade	Ip65 NEMA3R
Heat dissipation mode	Self-cooling
Communication mode	Wi-Fi
Power transmission mode	Reverse transmission,Load priority
monitoring system	APP
Electromagnetic Detection	EN61000-6-1:2007 EN6100-6-3:2007+A1:2011+AC:2012
Power Grid standard	EN50549-1、EN 50549-2、NBR 16149:2013、UL1741
Power grid detection	IEC/EN 62109-1、IEC/EN 62109-2、IEC 62116、IEEE 1547
Certificate	CE , CEC

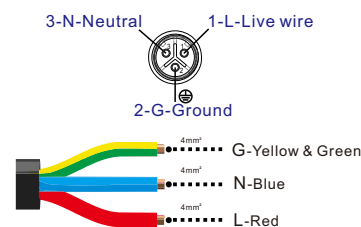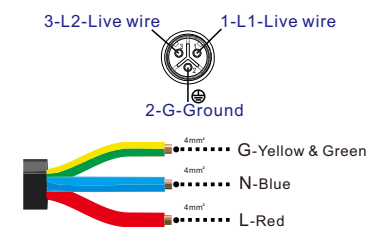| Packing weight		
Specifications	Each (Packing)	Box (4PCS)
weight	4.36 K G	18.38 K G
Size	430×375×140mm	430×405×380mm

Detailed

ANTENNA   SCREW KIT   USER MANUAL   AC PLUG
MICRO INVERTER

Exterior

Accessories

System diagram

Wi-Fi   Data exchange   App Control

Wi-Fi Router   Ali Could Server   Monitor System

Micro Inverter Array

L/L1
N/L2

Ground   Switch   Meter   Power Grid

With N wire connection (Single phase 120/230V)

3-N-Neutral   1-L-Live wire
2-G-Ground

G-Yellow & Green
N-Blue
L-Red

No N wire connection(Single phase 120V)

3-L2-Live wire   1-L1-Live wire
2-G-Ground

G-Yellow & Green
N-Blue
L-Red

Note: You can purchase a professionally customized AC bus with a T-type connector. Use this AC bus as the AC bus for each branch. Connect it hand in hand to form a modular micro-inverter branch wiring system.

When the inverter is not started/shutdown and has been connected to the grid, the status of the LED indicators is as follows

1) When the inverter is not working ----------------- Red light is always on
2) When the inverter is in working state ------------ Blue light flashes
(MPPT is locked to a long light state)

When the inverter is not started/shutdown and is not connected to the grid, the LED indicator status is as follows

1) When the inverter is not working ----------------- Red light flashes
2) When the inverter is in working state ------------ Blue light flashes
(MPPT is locked in a long light state), and the red light flashes once every three seconds
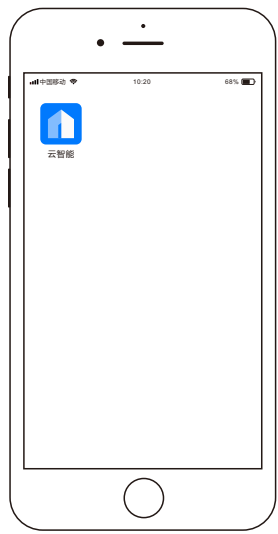
DOWNLOAD
Cloud Intelligence APP

Please use the QR code to scan and install the "Cloud Intelligence" client application,System version: Android 5.0, IOS 9 and above

Available on the App Store

GET IT ON Google Play

Note

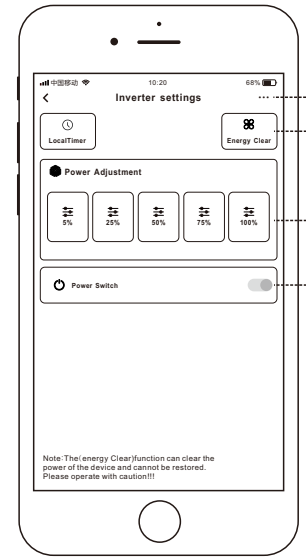Please strictly observe the following installation conditions

a) Connect the communication antenna on the inverter;

b) Install the inverter in a place where the Wifi signal is well covered;

c) The connected Wi-Fi network needs to be in 2.4G communication mode;

d) If the WiFi signal cannot effectively cover the inverter, an additional WiFi signal booster can be installed;

e) Turn on the Bluetooth of the mobile phone;

HELP Features

Smart APP can realize real-time data transmission with the cooperation of Alibaba Cloud IoTThrough graphs and graphic displays in time, users can understand the operation of the power station. The user can monitor the operation and adjust the output power function of the system.
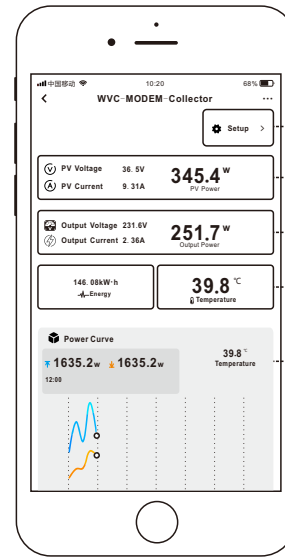
- Setup
- PV Input
- AC Output
- Temperature
- Data query
- Attributes
- Energy Clear
- Power Output
- Remote switch

Cloud Intelligence APP

Download on the App Store

ANDROID APP ON Google Play

INTELLIGENT Iot MONITORING MODEM
Number of data collectors per Modem
Built-in WiFi IoT data terminal
Can be used on any smart device (Android/iOS)

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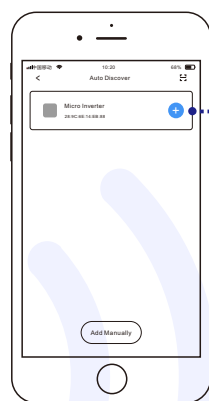
Bluetooth Mode

Setp 1
Turn on the Bluetooth of the mobile phone, click the "+" icon to add the device;
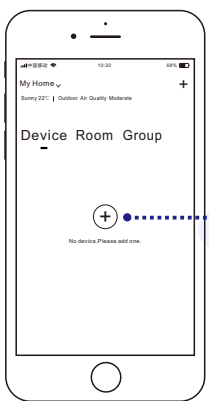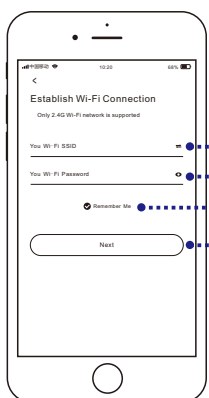
Click to add

Setp 2
When the inverter appears on the automatic discovery page, click the "+" sign
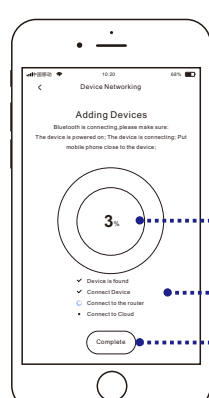
Click to add

Setp 3
Select WiFi signal, enter the Wi-Fi password; click Next

Enter Wifi Password
Save Password
Next Step

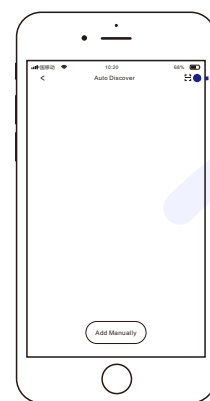### Setp 4
The system will enter the network configuration state

Network progress
Progress project
Network completed
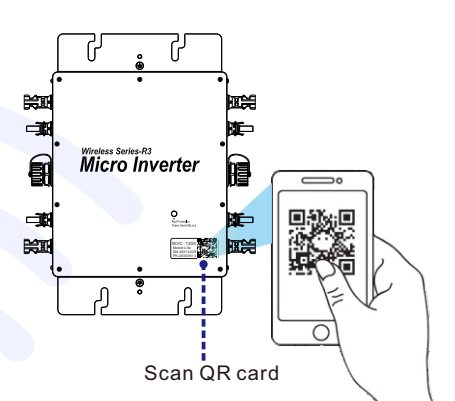
Wi-Fi Mode

Setp 1
Bluetooth distribution network fails, you can click to scan the QR code to operate
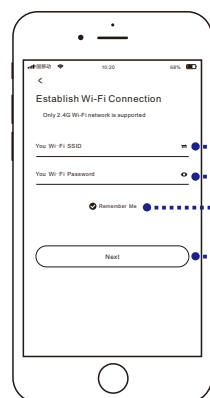
Click to add

Setp 2
Scan the QR code on the inverter to activate network operation

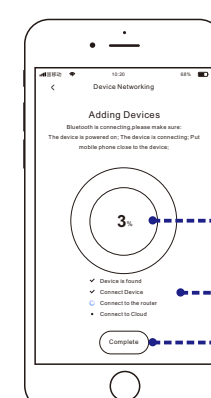Wireless Series-R3
Micro Inverter

Scan QR card

Setp 3
Select WiFi signal, enter the Wi-Fi password; click Next

Enter Wifi Password
Save Password
Next Step

Setp 4
The system will enter the network configuration state

Network progress
Progress project
Network completed