

# ALI CLOUD SYSTEM IOT PLATFORM

..... Green Energy  
..... Smart Inverter **Expert** .....



## WVC-Modem USER MANUAL

### Support full range of WVC-micro inverter

- Maximum power point tracking
- Reverse power transmission
- I / O, fully isolated
- No installation, no maintenance
- Adaptive voltage/frequency
- Internal high precision meter
- App monitoring system
- Forward full-bridge topology

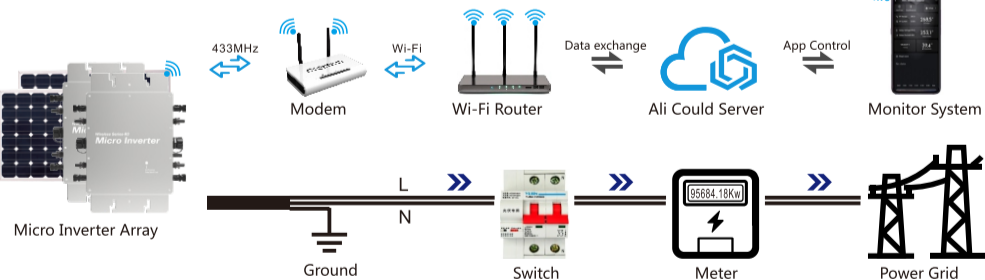
### Modem intelligent distribution network description (lot Model)



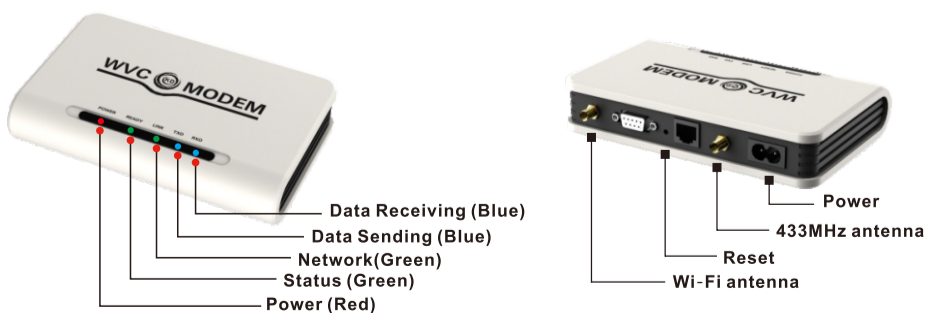
Data Collector  
WVC-MODEM

Parameter	
Input Voltage range	automatic shift 120/230V
Input frequency range	50/60Hz
Max Output Power	10Watt
G.W.	0.35KG
Size	160×100×32mm
Communication mode	433MHz+WIFI
Transmission distance	1000M(open range)
Waterproof	IP23

#### Running Mode



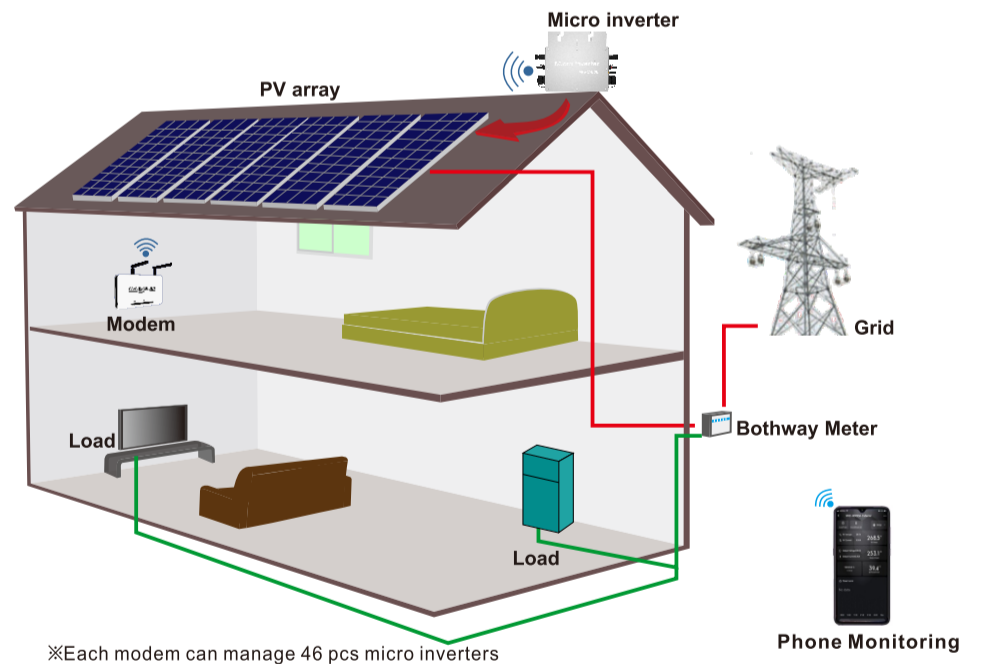
#### Modem indicator & button



#### Ready to work:

1. Install the "Cloud Smart" mobile application on your smartphone
2. A wireless router that can log in to the Internet normally

### System communication transmission diagram



### Ali-Cloud System Intelligent Monitoring platform



The KDM photovoltaic monitoring system supports a full range of WVC micro-inverters. Through the access of the Alibaba Cloud IOT platform, users can establish different application scenarios. Its high-speed, safe and stable communication mode makes the KDM remote monitoring system, users The remote power station management can be easily realized by just using the APP application on the mobile phone. At the same time, the smart cloud APP has a built-in view table function, which allows users to simplify statistics according to query methods such as day, month, and year. Provides a powerful way for users to analyze data

**Software download**

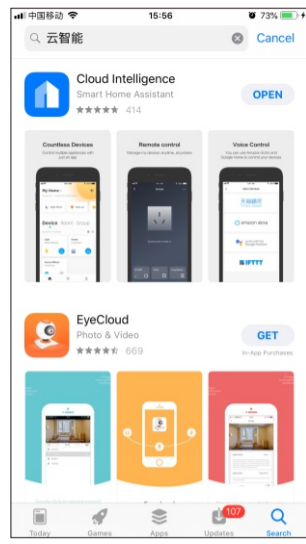
Use the mobile phone QR code scanning function to scan the QR code below to download the application (A-1), or download the "Cloud Smart" application (A-2) through the Apple Store or Google Store.

**App:Cloud Intelligence**



• Use your Phone to scan QR code,download and install the APP  
Support:  
Android 5.0 or above  
IOS 9.0 or Above

(A-1)



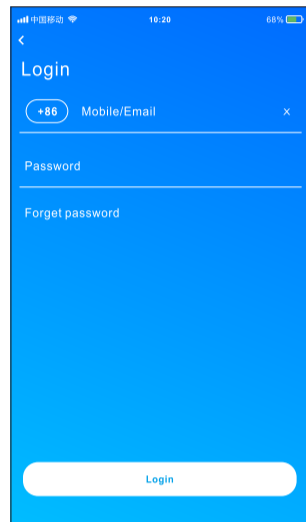
(A-2)

**Register & Login**

Follow the system prompts to register an account (B-1), and log in to the system (B-2).Users can choose mobile phone/email preferences to register



(B-1)

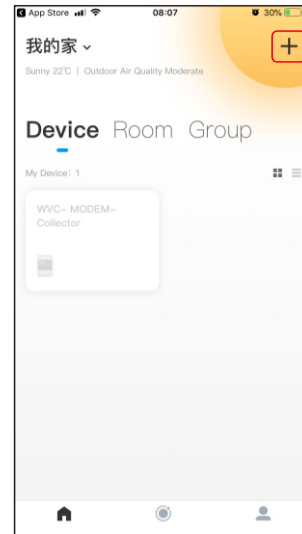


(B-2)

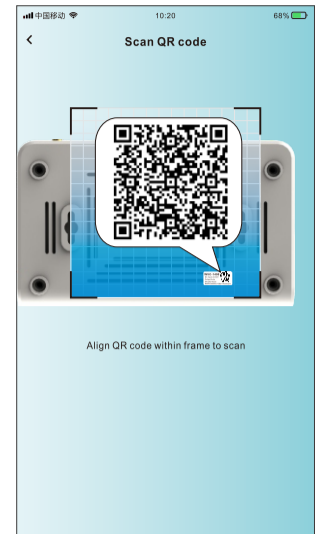
**Add Modem**

Click the "+" (C-1) in the upper right corner, click the "QR code scan" function button when adding a device page, when the QR code scanning status appears (C-2), please scan the inverter or collector Scan the QR code.

**\*The inverter QR code is on the front**

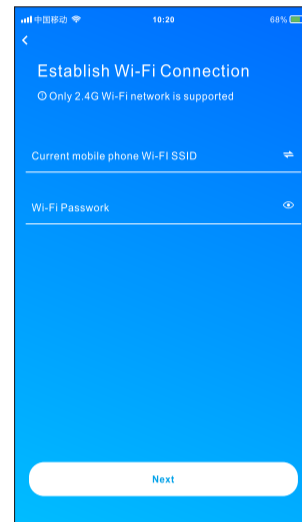


(C-1)



(C-2)

When the Wi-Fi connection page appears, please enter the wifi password currently connected to the mobile phone and click Next (D-1). When the initial device interface appears, press the reset button on the device as prompted to continue the operation (D-2)



(D-1)



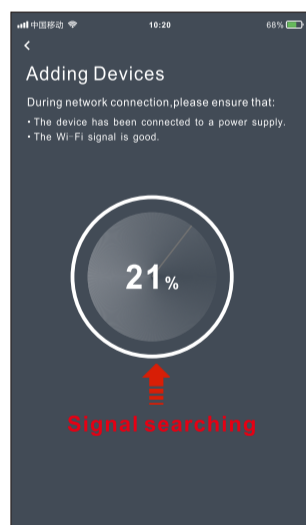
(D-2)

After the Modem is connected to the power supply, short press the reset button on the Modem device and release the button (E-1) when the indicator light is off. At this time, the mobile phone application will send a distribution network signal to enter the distribution network search state (E-2)



Quickly press the "reset button" and release the button when the "Reday" indicator light goes out

(E-1)



(E-2)

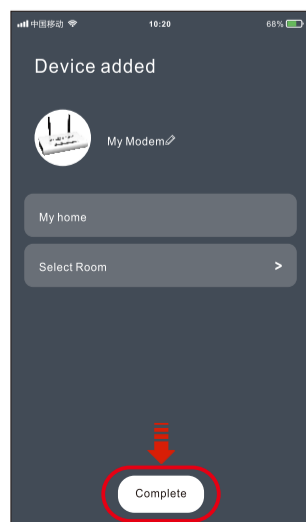
During the network distribution process, the indicator will change from fast flashing to slow flashing (F-1). When the collector completes the network configuration, click Finish (F-2)

\*An error was encountered during the adding process, please re-execute the above steps



After the indicator light goes out and lights up again, the network distribution indicator will flash quickly until the network configuration is completed.

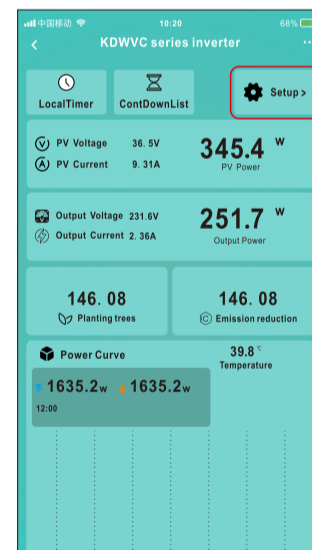
(F-1)



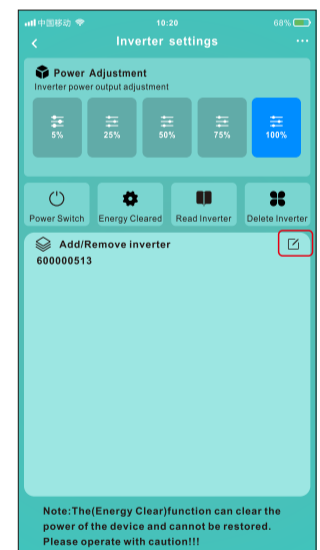
(F-2)

**Add Inverter**

Click "Setup" on the main interface of the collector to enter (G-1) to the Add Inverter page and enter the ID on the inverter into the inverter list (G-2)



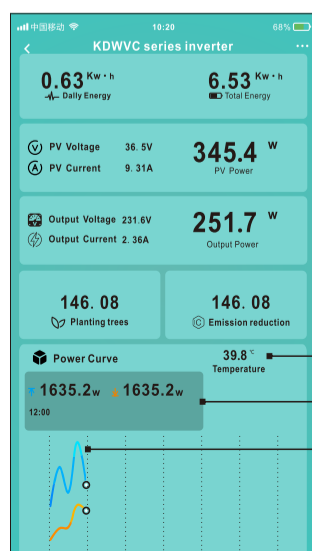
(G-1)



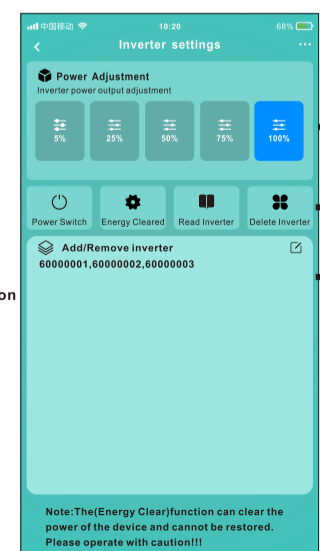
(G-2)

**Function & display**

The KDM "Cloud Intelligence" application can effectively provide users with high-speed, stable and secure data storage and rapid response functions of the device through the server platform of Alibaba Cloud.Using the characteristics of the Internet of Things allows users to DIY their own smart power station system according to their preferences.



- Power generation statistics display
- DC input display
- AC output display
- Environmental protection status statistics
- Temperature display
- Power data display
- Bipolar power display



- Inverter power regulation
- Inverter control
- Inverter list