

WVC-1400 micro inverter WiFi/433MHz Version User manual





WVC1400-433/WiFi **Micro inverter**



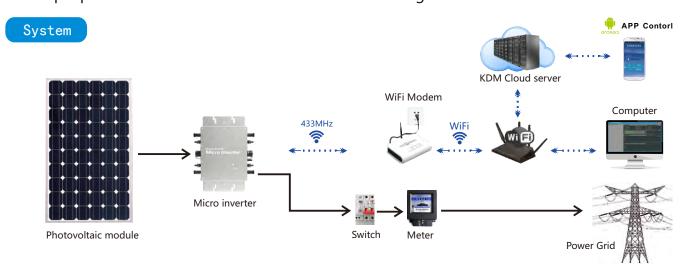
Parameter

| model WVC1400-R3-433/WiFi Maximum input power 1600Watt Output voltage mode 120/230V Auto switch PV Open circuit voltage 30-60VOC Operating voltage range short-circuit current 64A Maximum working current 53.8A Output parameters 0120V @230V Output peak power 1600Watt 1600Watt Rated output power 1400Watt 1400Watt Output current 11.6A 6A AC voltage range 80-160VAC 180-280VAC AC frequency range 48-51Hz/58-61Hz 48-51Hz/58-61Hz Power factor 995% >95% Number of branch connections. 3PCS (Single) 6PCS (Single) Output 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 <0.5W <0.5W Size (LxWxH) 370mmx300mmx41.6mm Net amount 2.56kg Waterproof grade lp65 NEMA3R Heat dissipation mode self-cooling Communication mode reverse transmission, Load priority < | and the latest state of the latest states and the latest states are states as the latest states are states are states as the latest states are states ar | W0/64 400 B2 422 (W | •=• | | |
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| Number of branch connections. 3PCS (Single) 6PCS (Single) Output efficiency | AC frequency range | 48-51Hz/58-61Hz | 48-51Hz/58-61Hz | | |
| Output efficiency @120V @230V Static MPPT efficiency 99.5% 99.5% Max output efficiency 95% 95% Loss of power at night <0.5W | Power factor | >95% | >95% | | |
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| Total current harmonics <5% <5% Appearance and technical features Temperature range | Max output efficiency | 95% | 95% | | |
| Total current harmonics <5% <5% Appearance and technical features Temperature range | Loss of power at night | <0.5W | <0.5W | | |
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| SpecificationsEach (Packing)Box (4PCS)weight3.74 K G15.9 K G | Packing weight | | | | |
| | | Each (Packing) | Box (4PCS) | | |
| Size 430×375×140mm 430×405×380mm | weight | 3.74 K G | 15.9 K G | | |
| | Size | 430×375×140mm | 430×405×380mm | | |

Features

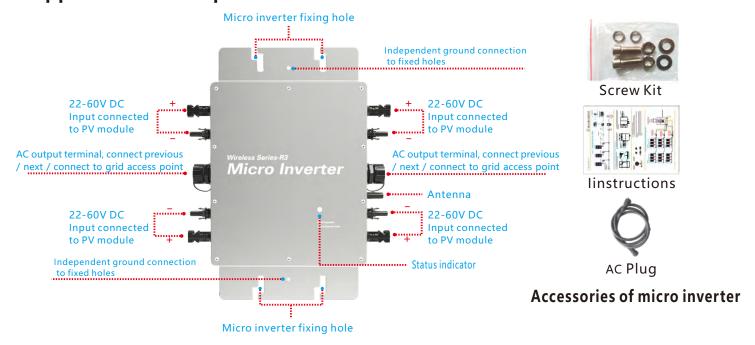
- Maximum power point tracking
 Adaptive voltage/frequency
- Reverse power transmission
- I / O, fully isolated
- Multiple parallel stacks

- Voltage mode microgrid
- 5G lot Platform management
- App monitoring system
- Internal high precision meter
 Forward full-bridge topology
 - No installation, no maintenance

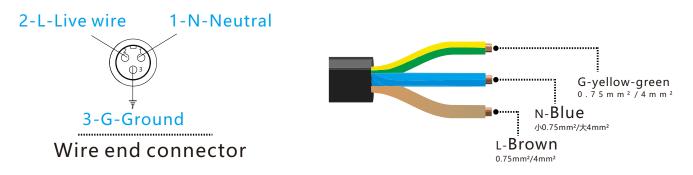




Appearance description of micro inverter



Description of the connector and cable core of the micro inverter



LED indicator function of micro inverter

- 1.Red light is on---The micro-inverter is powered on, the red light is on, and the equipment is ready to work;
- 2.Red light flashes----The micro-inverter is fully prepared and enters the delayed startup state;
- 3. Flashing green-----MPPTMaximum power point search status;
- 4. Green light is on----MPPTMaximum power point locked state;
- 5.The green light turns red----a.Island protection; b. Frequency protection; c. AC over/under-voltage protection; d. DC voltage over and under voltage protection; e. fault; f. software shutdown;

Normal working indicator flashing process:

Connect the micro-inverter to the AC and DC terminals, and then turn on the power → the red light will be on for 3 seconds → the red light will flash for 30 seconds → the green light will flash quickly (MPPT maxim um power point search) → The green light is on, (MPPT lock).



433MHz Long distance communication

The communication method of 433MHz is a short connection method, that is, the signal is disconne -cted after sending / receiving. The device for data collection with the inverter is WiFi-MODEM. The communication channel is civilian channel. Long-distance wireless transmission (open area up to 1800 meters, good wall penetration capability, air baud rate 500bps) Operating frequency range (433.4-473.0MHz, up to 100 communication channels) Maximum 100mW (20dBm) transmit power 8 levels of power can be set) Four working modes, suitable for different applications, please refer to the WiFi-MODEM instruction manual for specific usage details.



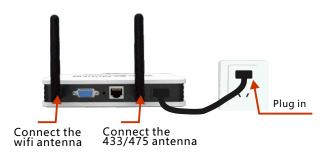
Power monitoring system diagram



WiFiData collector usage settings

1. Preparation for use:

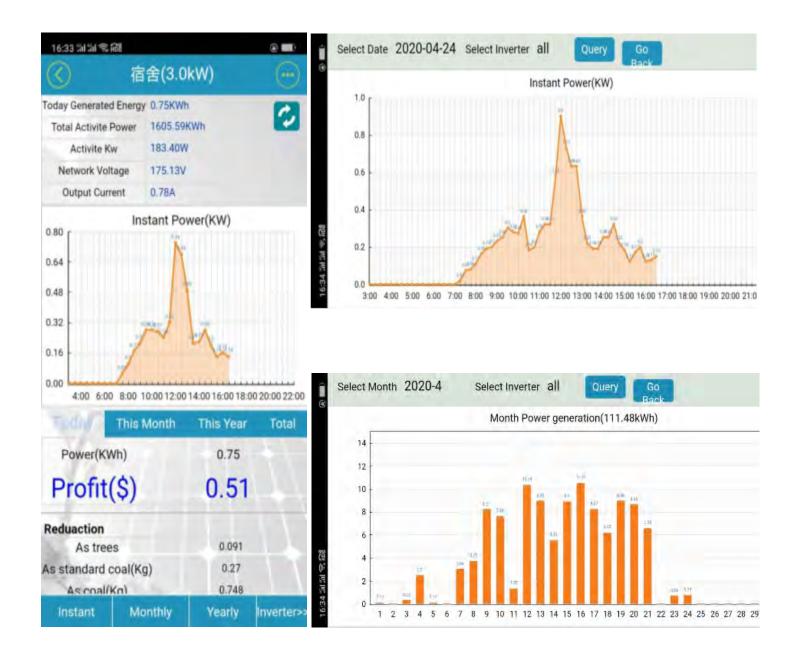
If you want to use the monitoring system of WVC series micro-inverters, you must install and set up WVC series WiFi data collector. WiFi data collector is the data exchange bridge of WVC series microinverters. It is in the micro-inverter, The function of data collection and data exchange between computers, using 433MHz signal to send the voltage, current, temperature, power and other data of the micro-inverter to the KDM server via WiFi signal, computer can smoothly monitor the power generation data of the power station, Please connect the antenna and power cable of the data collector as shown on the right.



WiFi Modem hardware connection diagram



2. Immediately monitor your power plant and keep track of your power plant data:





WVC series micro-inverter installation guide

To properly install and use WVC series micro inverters, please read and follow this guide and all warnings and ins-tructions in WVC micro inverters. The "Installation and Operation Manual" can be downloaded from the official website of inverter Energy: www.inverter.com.Safety warnings are listed on the back of this guide. All models of WVC Series Mic-ro inverter listed in this guide have a ground wire in the AC cable, no additional ground electrode is required (EGC), there are thr-ee wires in-side the AC cable with equipment, which are Blown zero line N (Blue) ground wire / safety line G (Yellow & green). Ea-ch micro-inverter is equipped with an AC cable with a length of 3 * 4 * 2 meters. The current of each AC cable branch cannot be greater than 40A. For the number of connected branches of each branch, refer to the following installat-ion guide.

Important information: WVC series micro-inverters use IP65 waterproof rating. When installing, please try to install it in a place where there is no rain, nor in a place where the sun is exposed to ensure ventilation and heat dissipation.

Preparation before installation:

- 1. Please visit our company's official website www.inverter.com, then open the website and register anaccount on it, and create a power station on the account to reverse the WVC series. The inverter is monitored or controlled. For detailed operation, please refer to the instructions in the inverter monitoring section.
- 2. The device for data collection with the inverter communication is WiFi-MODEM, and the communication method between WiFi -MODEM and inverter is long-distance wireless transmission (o -pen field 1800 meters, air baud rate 00bps). Operating frequen -cy range (433.4-473.0MHz Up to 100 communication channels) Maximum 100mW (20dBm) transmit power (8 levels of power can be set) Four working modes, suitable for different applications, please refer to the WiFi-MODEM manual for details.
- 3, Please refer to the following list and compare the electrical par -ameters of the solar modules in the table to select the inverter model

| model. | | |
|----------------|-----------|--|
| Inverter model | Connector | Photovoltaic module |
| WVC-295 | 1*MC4 | |
| WVC-300 | 1*MC4 | |
| WVC-350 | 1*MC4 | The number of mat -ched photovoltaic modules is 60 strin -gs / 72 strings / 90 strings. The open c -ircuit voltage Voc is between 30-60V |
| WVC-600 | 2*MC4 | |
| WVC-700 | 2*MC4 | |
| WVC-1200 | 4*MC4 | |
| WVC-1400 | 4*MC4 | |
| WVC-2000 | 4*MC4 | |
| WVC-2400 | 4*MC4 | |
| WVC-2800 | 4*MC4 | |

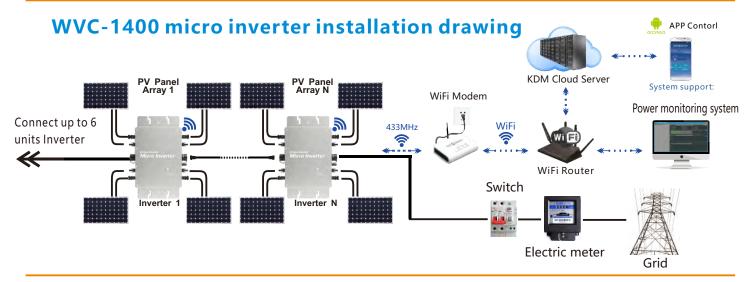
- 4、In addition to WVC series micro-inverters, you must also purchase photovoltaic brackets / AC boxes / electrical cables and other related materials. The current of each channel of the WVC series micro-inverters at the branch of the installed circuit cannot exceed 40 Amp, if the rated current is exceeded, it may lead to an unsafe factor.
- 5. Check if you still have the following related equipment: AC junction box, tools: screwdriver, wire cutter, voltmeter, tor -que wrench, socket and wrench for installing hardware, etc.

- 6、After the installation of the power station is completed, ple -ase install a ground wire on the photovoltaic support, inst -all and use a lightning protection and / or surge suppress -ion equipment protection system in the AC junction box. It is very important to have a switch device that automatically protects against lightning strikes and surges.
- 7. When installing the inverter handshake cable, please plan th -at your AC branch circuit cannot exceed the current limit, so that the maximum number of micro-inverters in each branch can be reasonably allocated.

| Inverter model | Number of branches |
|----------------|--------------------|
| WVC-295 | 30PCS |
| WVC-300 | 30PCS |
| WVC-350 | 25PCS |
| WVC-600 | 15PCS |
| WVC-700 | 12PCS |
| WVC-1200 | 8PCS |
| WVC-1400 | 6PCS |
| WVC-2000 | 5PCS |
| WVC-2400 | 4PCS |
| WVC-2800 | 4PCS |

- *Each region may be different. Please refer to local requirem -ents to define the number of micro-inverters per branch in
- 8. Implement all national electrical codes (NEC), ANSI / NFPA 70 in accordance with all local electrical codes and all relev -ant regulations.
- 9、Please note that only qualified personnel can install and / or replace micro-inverters.
- 10 Please do not try to repair micro-inverter. It does not contain user-serviceable parts. If it fails, please contact customer service to obtain the ID number and start the replacement process. Tampering or opening the micro inverter will invalid-ate the warranty.
- 11, Before installing or using Micro Inverter, please read all instructions and technical instructions and the warning mark system and photovoltaic array on Microinverter.
- 12, Please make sure that the installation operation is performed before the AC power is disconnected, and do not install the micro-inverter with power on.
- 13, Please install micro inverter series products as shown in the following figure.



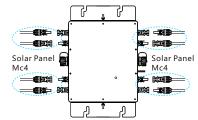


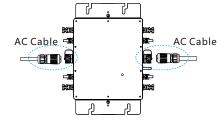
Inverter installation steps

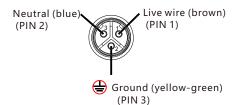
Step1 Install the inverter on the bracket of the photovoltaic panel with the screws pro vided with the machine, as shown in the fo -llowing figure:

-Itaic board to the DC input terminal of the inv -erter, as shown below:

Step2 Connect the positive and negative poles Step3 Open the waterproof cover of the AC output of the DC connection MC4 plug on the photovo connector of the inverter and connect the AC cable to the AC waterproof plug. The connection method is as shown in the plug connection diagram:







Step 4 Connect the AC output cable to the AC main cable;

Step 5 Repeat steps 1 to 3, install and connect all inverters;

Step 6 Connect the AC main cable to the utility grid to start your green energy journey.

Note: Before installing WVC series micro inverter products, please read this manual and pay attention to the installation details.

This manual contains important instructions that should be followed when installing and maintaining Reduce the risk of electric shock and ensure safe installation and ope -ration of MicroInverters, Always follow the following safety symbols present in this document to indicate hazardous conditions and important safety Instructions.

