

WVC-1600 Wireless Series R3 Micro Inverter User Manual

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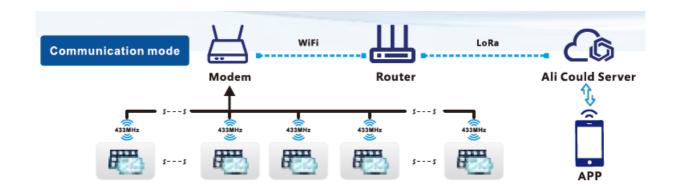


IoT Monitoring Platform

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





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MICRO INVERTER

| Model Recommend use panels | WVC-1600 4*500Watt | |
|-------------------------------|------------------------------|-----------------|
| Output voltage mode | 120/230V Auto switch | |
| PV Open circuit voltage | 30-54VOC | |
| Operating voltage range | 22-60V | |
| Starting voltage range | 22-60V | |
| short-circuit current | 4*18A | |
| Maximum working current | 4*16A | |
| Output parameters | @120V | @230V |
| Output peak power | 1600Watt | 1600Watt |
| Rated output power | 1550Watt | 1550Watt |
| Output current | 13.3A | 6.95A |
| AC voltage range | 80-160VAC | 180-280VAC |
| AC frequency range | 48-51Hz/58-61Hz | 48-51Hz/58-61Hz |
| Power factor | >95% | >95% |
| Number of branch connections. | 3PCS (Single) | 6PCS (Single) |
| Output efficiency | @120V | @230V |
| Static MPPT efficiency | 99.5% | 99.5% |
| Max output efficiency | 95% | 95% |
| | | |
| | | |

Appearance and technical features

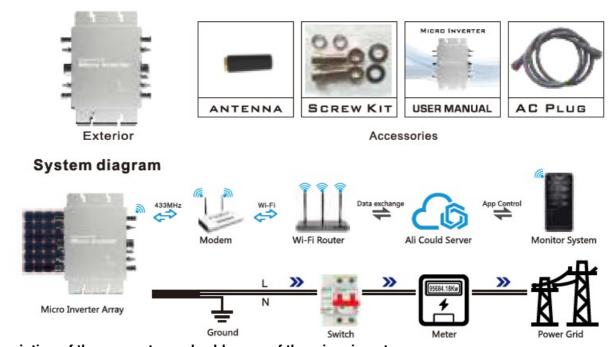
- Temperature range -40°C to + 65°C
- Size (LxWxH) 370mmx300mmx41.6mm
- Net amount 3.0kg
- Waterproof grade lp65 NEMA3R

- · Heat dissipation mode Self-cooling
- Communication mode 433MHz
- Power transmission mode Reverse transmission. Load priority
- · Monitoring system APP
- Electromagnetic Detection EN61000-6-1:2007 EN6100-6-3:2007 +AI: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, ETL, Patented technology

Packing weight

- Specifications Each (Packing) Box (4PCS)
- weight 4.0KG 16.5 KG
- Size 430x375xl40mm 430x405x380mm

Detailed



Description of the connector and cable core of the micro inverter



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.

LED indicator function of micro inverter

- 1. Red light keeps on ——-The equipment enters the preparatory working state;
- 2. Red light flashes ——-The device enters the delayed start-up stale;

- 3. Blue light flashes quickly —MPPT maximum power point search status;
- 4. Blue light keeps on——1v,PPT maximum power point locked state;
- 5. Blue light turns to red light for a long time—-a) Island protection; b)Frequency protection; c)Fault; d) Software shutdown:

Normal working indicator flashing process

Connect the micro-inverter correctly to the AC and DC terminals and then power on:

The red light keeps on for 3 seconds -> the blue light flashes quickly (MPPT the red light flashes for 30 seconds -> maximum power point search) -> the blue light keeps on, (MPPT lock).



Note

- Connect the two communication antennas on the collector (Modem) as required;
- Place the collector in an appropriate location to ensure that the WIFI signal source can be received normally and Form a good communication distance with the inverter;
- The connected Wi-Fi network needs to be in 2.4G communication mode;
- Please reset the collector for the first use;

Reset

Press and hold the reset button for more than 5 seconds, and Raday will go out and light up again after 5 seconds.

Release the button at this time, and the device will complete the reset.

Add device

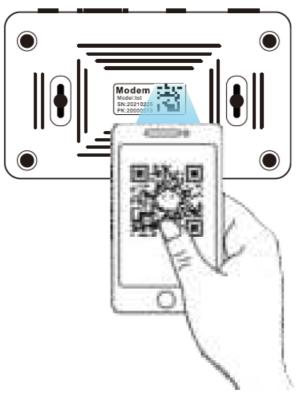
Open the intelligent monitoring software "Cloud Intelligence" APP to log in Account, click the "+" icon in the upper right corner to start adding.

*If a device has been created under the current account, (You can click on the device icon below to enter the details page for query or operation)



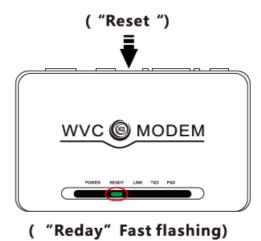
Entry equipment

When the smart APP changes to the QR code scanning state, scan the QR code label at the bottom of the Modem. At this time, the APP will automatically collect the body code of the Modem ,and automatically jump to the Wi-Fi connection page, and enter the current Wi-Fi Click Next after the password;



Distribution network

Connect the Modem to the power supply as required, and quickly press the "Reset" button. When the "Raday" indicator turns from a long on state to a fast flashing state, the Modem will enter the network distribution state;



Initialization

After comp leting the network configuration of the modem, return to the phone initialization device operation page, check the "I have completed the above operations" below and click the "start connection" button, then the page will jump to the signal search page and the Link on the modem The indicator light will become a fast flashing state. When a WIFI signal is found, the indicator light will flash slowly until the network configuration is completed, and the indicator light will return to a steady state. The page jumps to the completion page, please click "Finish"

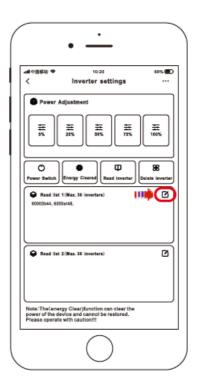


Add inverter

When the initialization is completed, please click the "Settings" menu in the upper right corner, find the inverter list item on the setting page, click the "Edit" button, and fill in the 8-digit code on the inverter to complete the inverter Add to.

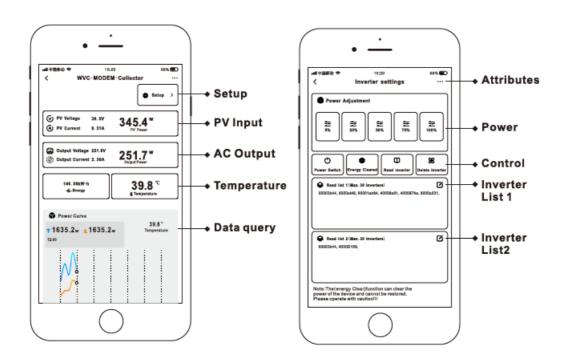
Remarks

- 1. When multiple inverters need to be added, the in the English state,"," comma separated and ended. Such as: 60001234, 6000E312,
- 2. Each Modem can monitor 60 inverters at the same time; 3. A total of 2 lists, each list can be filled with 30 inverter codes;



Features

Smart APP can realize real-time data transmission with the cooperation of Alibaba Cloud lot Through 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.



INTELLIGENT LOT MONITORING MODEM

Number of data collectors per Modem

Built-in WiFi IoT data terminal

Can be used on any smart device (Android/iOS)



- CO-2 induced environmental analysis
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Documents / Resources



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WVC-1600, Wireless Series R3 Micro Inverter, WVC-1600 Wireless Series R3 Micro Inverter, S eries R3 Micro Inverter, Micro Inverter, Inverter

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