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KD WVC-2400 Wireless Series R3 Micro Inverter User Manual

Home » KD » KD WVC-2400 Wireless Series R3 Micro Inverter User Manual

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Contents [hide

- 1 IoT Monitoring Platform
 - 1.1 Smart mobile "core" life
 - 1.2 Communication mode
- 2 Detailed
- 3 System diagram
 - 3.1 With N wire connection (Single phase 120/230V)
 - 3.2 No N wire connection(Single phase 120V)
- 4 LED indicator function of micro inverter
 - 4.1 Normal working indicator flashing process
- **5 DOWNLOAD Cloud Intelligence APP**
 - 5.1 Reset
- **6 Add Device**
- 7 Entry equipment
- 8 Distribution network
- 9 Initialization
- **10 Inverter Control**
- 11 Features
- 12 Cloud Intelligence APP
 - 12.1 INTELLIGENT lot MONITORING MODEM
- 13 Documents / Resources
- **14 Related Posts**

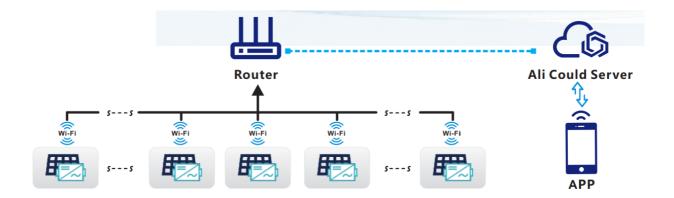
IoT Monitoring Platform

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

Communication mode



9	CO-2 induced environmental analysis
	Daily and total energy generation in kWh
(A)	Actual DC input voltage, current and power
\bigcirc	Actual AC output voltage, current and power
Ø	Inverter temperature
(Q)°	Optional limitation of power output
(1)	Online switch for the inverter start stop
<u> .1.1</u>	Historical (daily, weekly, monthly) power curve

model	WVC-2400
Recommend use panels	4*750Watt
Output voltage mode	120/230V Auto switch

PV Open circuit voltage	30-60VDC		
Operating voltage range	22-60V		
Starting voltage range	22-60V		
short-circuit current	4*28A		
Maximum working current	4*23A		
Output parameters	@120V	@230V	
Output peak power	2600Watt	2600Watt	
Rated output power	2400Watt	2400Watt	
Output current	20A	10.5A	
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.	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%

Temperature range	-40°C to +65°C	
Size L×W×H	370mm×300mm×41.6mm	
Net amount	3.0kg	
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 Patented technology	

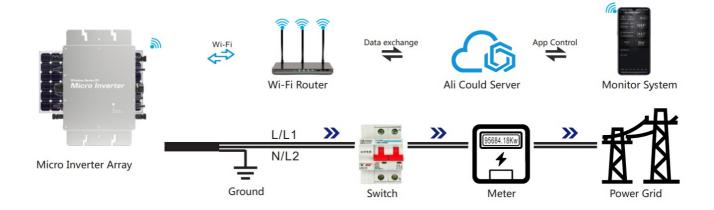
Packing weight

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

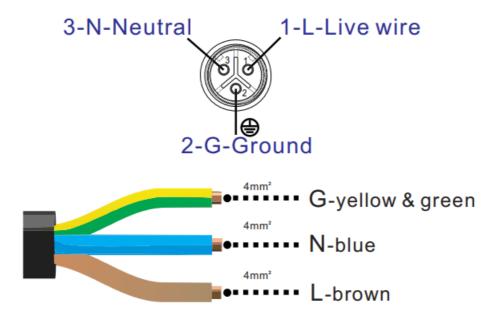
Detailed



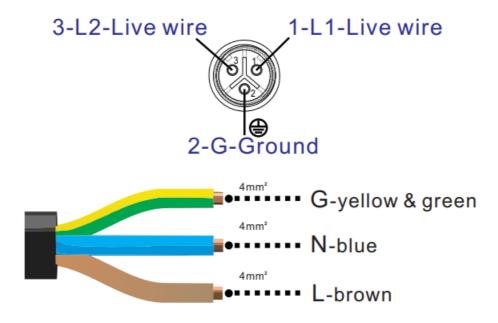
System diagram



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



No N wire connection(Single phase 120V)



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

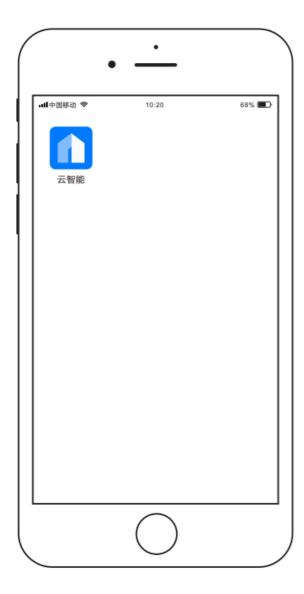
- 1. Red light keeps on The equipment enters the preparatory working state;
- 2. Red light flashes The device enters the delayed start-up state;
- 3. Blue light flashes quickly ————MPPT maximum power point search status;
- 4. Blue light keeps on———MPPT maximum power point locked state;
- 5. Blue light turns to red light for a long time—-a) Island protection; b)Frequency protection; c)Fault; d) Software shutdown; e) AC voltage over-voltage protection; f)DC voltage over-voltage protection;

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 \rightarrow the red light flashes for 30 seconds \rightarrow the blue light flashes quickly (MPPT maximum power point search) \rightarrow the blue light keeps on, (MPPT lock).

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









Please strictly observe the following installation conditions

- a) Connect the communication antenna on the inverter;
- b) Put the inverter in a place with good Wifi signal;
- c) The connected Wi-Fi network needs to be in 2.4G mode;
- d) Please reset the inverter for the first use;



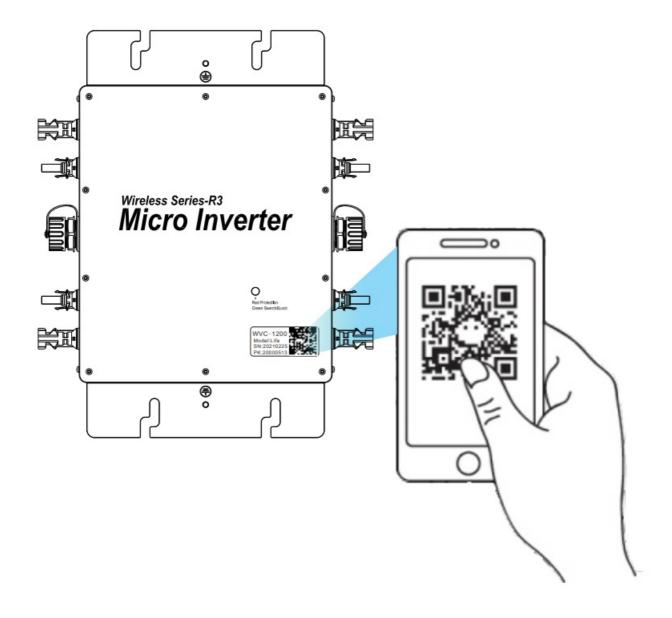
Long press the reset button, when the LED indicator lights up again and turns into a "blue light" Release the reset button after the status is displayed for a long time, and the inverter will automatically complete the reset.

Add Device



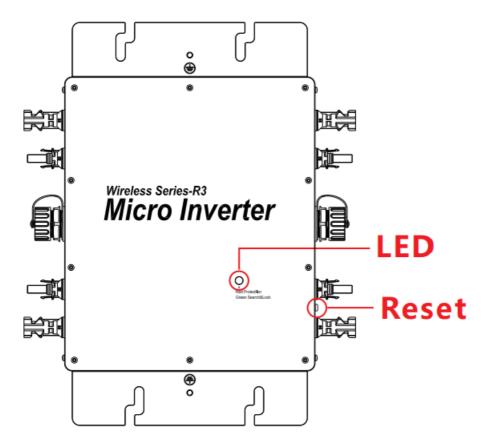
Open the intelligent monitoring software "Cloud Intelligence" APP to log in Account, click the "+" icon in the upper right corner to start adding Equipment program;*If there is a device under the current account, click on the device Icon to enter the details page)

Entry equipment



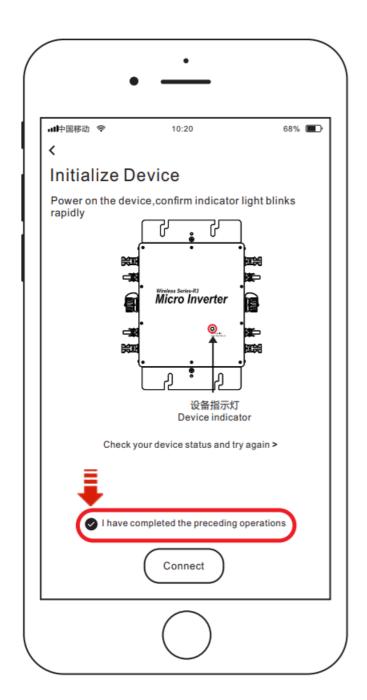
When the smart APP changes to the QR code scanning state, scan the QR code label on the inverter body. At this time, the APP will automatically collect the inverter code and automatically jump to the Wi-Fi connection page, enter Click Next after the current Wi – Fi password;

Distribution network



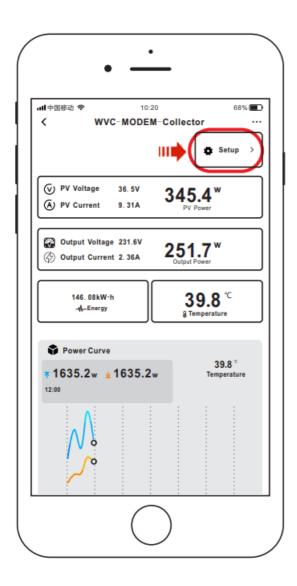
Connect the inverter to the power supply as required, and quickly press the "Reset" button. At this time, the "LED" indicator will change to flashing blue and red alternately. At this time, the inverter enters the standby state of the distribution network;

Initialization



When the inverter is in standby mode, return to the mobile phone APP to initialize the device operation page, check the "I have completed the above operations" below and click the "Start Connection" button. At this time, the page will jump to the signal search page. The LED indicator on the converter changes from red and blue alternately flashing state to "blue" long-bright display state when the network distribution is completed. The page will a u t o m antically jump to the system completion confirmation page, please click "Finish".

Inverter Control



lick the "Settings" button in the upper right corner of the system details page. In the settings page, you can adjust the inverter's output power, timing, remote start and stop, etc. according to actual needs.

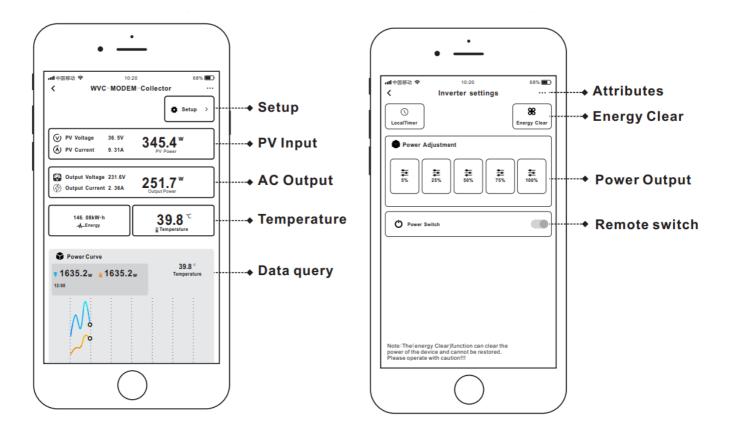
Remarks

- 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 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.



Cloud Intelligence APP



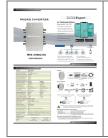




Number of data collectors per Modem Built-in WiFi IoT data terminal Can be used on any smart device (Android/iOS)

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Documents / Resources



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WVC-2400, WVC-2400 Wireless Series R3 Micro Inverter, Wireless Series R3 Micro Inverter, R 3 Micro Inverter, Inverter

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