

MICRO INVERTER



WVC-600  
USER MANUAL



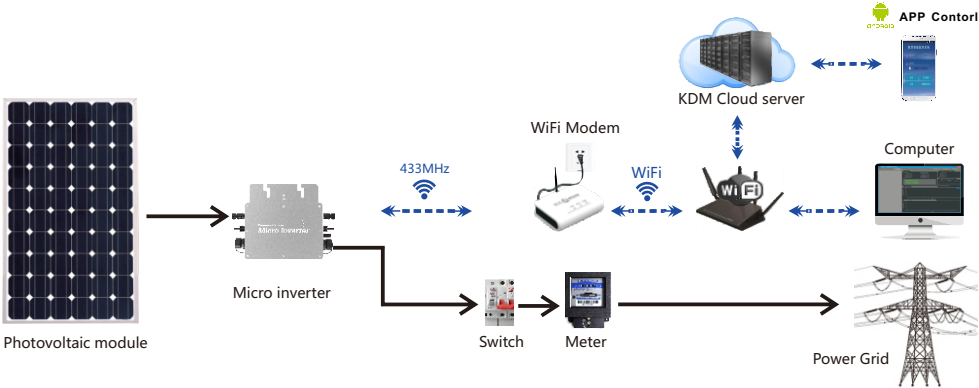
..... Green Energy .....  
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WVC series communication type intelligence  
Micro grid-connected inverter

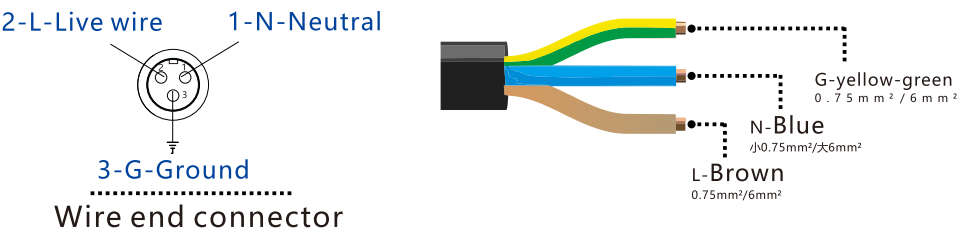
- Maximum power point tracking
- Reverse power transmission
- I / O, fully isolated
- No installation, no maintenance
- Adaptive voltage/frequency
- Internal high precision meter
- App monitoring system
- Forward full-bridge topology

<b>model</b>	<b>WVC-600</b>	
Maximum input power	600Watt	
Output voltage mode	120/230V Auto switch	
PV Open circuit voltage	30-60VOC	
Operating voltage range	22-60V	
Starting voltage range	22-60V	
short-circuit current	30A	
Maximum working current	24A	
<b>Output parameters</b>	<b>@120V</b>	<b>@230V</b>
Output peak power	600Watt	600Watt
Rated output power	580Watt	580Watt
Output current	5A	2.6A
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.	6PCS ( Single )	12PCS ( Single )
<b>Output efficiency</b>	<b>@120V</b>	<b>@230V</b>
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%
<b>Appearance and technical features</b>		
Temperature range	-40°C to +65°C	
Size ( L×W×H )	283mm×200mm×41.6mm	
Net amount	1.56kg	
Waterproof grade	Ip65 NEMA3R	
Heat dissipation mode	Self-cooling	
Communication mode	433MHz/WiFi	
Power transmission mode	Reverse transmission,Load priority	
monitoring system	Mobile phone APP、Browser	
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 , ETL , INMETRO , Patented technology	
<b>Packing weight</b>		
Specifications	Each ( Packing )	Box ( 5PCS )
weight	2.8 KG	14 KG
Size	342×240×115mm	440×380×260mm

System diagram



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 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 maximum power point search)→ The green light is on, (MPPT lock).



