



.... with integrated NS protection !

NPE 600W (WiFi)

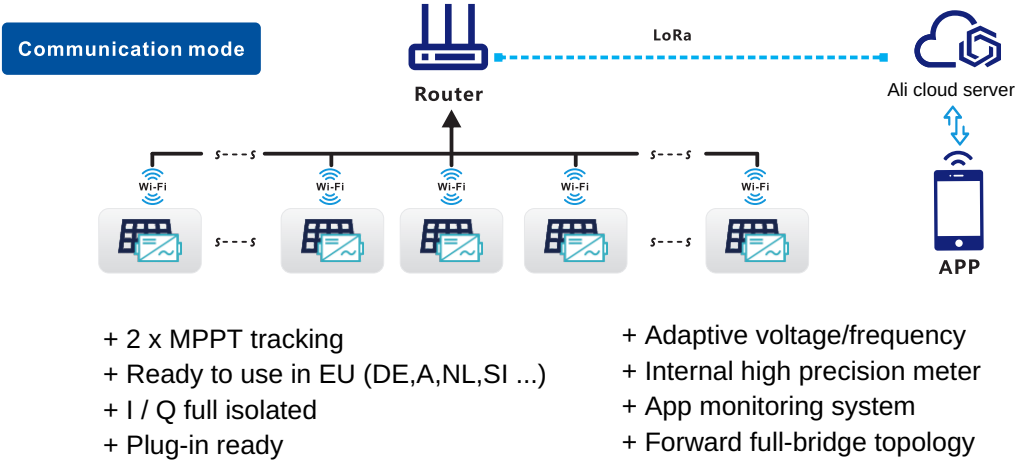
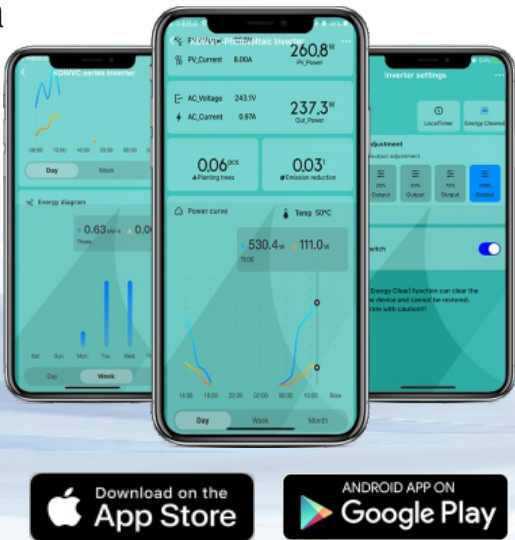
USER MANUAL

..... Green Energy Smart Inverter Expert

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



model	NPE 600 W	
Recommend use panels	2*400 Wp	
Output voltage mode	120/230V Auto switch	
PV Open circuit voltage	30-60 VOC	
Operating voltage range	22-60V	
Starting voltage range	22-60V	
short-circuit current	2*16A	
Maximum working current	2*12A	
Output parameters	@120V	@230V
Output peak power	600 Watt	600 Watt
Rated output power	580 Watt	580 Watt
Output current	5.00A	2.60A
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)
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%
Appearance and technical features		
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	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、VDE AR-N 4105:2018-11	
Power grid detection	IEC/EN 62109-1、IEC/EN 62109-2、IEC 62116、IEEE 1547	
Certificate	CE , ETL , INMETRO , Patented technology	
Packing weight		
Specifications	Each (Packing)	Box (5PCS)
weight	2.8 KG	14 KG
Size	342×240×115mm	440×380×260mm

The components



Exterior

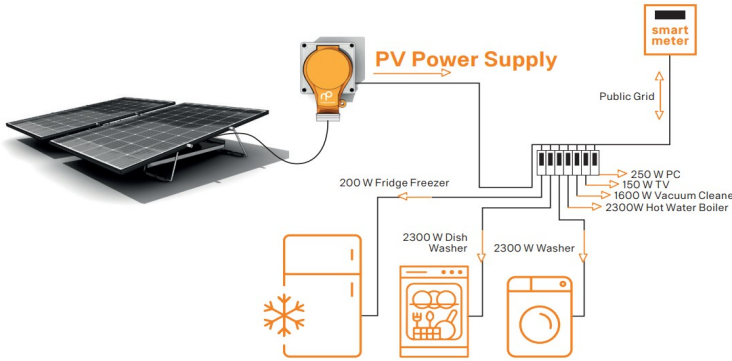


Accessories

How it works

1. feeds in to the house grid via the plugged connector
2. goes first to all active house facilities
3. goes only to the grid when the total of all house consumers needs less power
4. in 3-phase-system is also credited to the other two-phases („meter balance“)

... or simply charge the battery of your E-bike!




LED indicator function of micro inverter

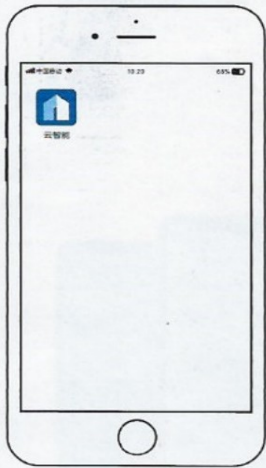
1. Red light keeps on -----The equipment enters the preparatory working state;
2. Red light flashes -----The device enters the delayed start-up state;
3. Blue light flashes quickly -----MPPT maximum power point search status;
4. Blue light keeps on-----MPPT maximum power point locked state;
5. Blue light 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 → the red light flashes for 30 seconds → the blue light flashes quickly (MPPT maximum power point search) → the blue light keeps on, (MPPT lock).

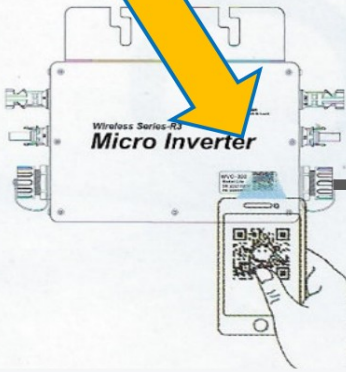
1 . ADD DEVICE

Scan the QR-code below, install the indicated „Cloud Intelligence“-App, open it, click „Register“, select your country where you are, open your private account indicating your email address, confirming your identity with the sent figures and set your password. Now you are ready to add your inverter. Click the „+“ icon in the upper right corner. Next page opens. Click on the „“ in the upper right corner and scan the QR-code on the inverter case....



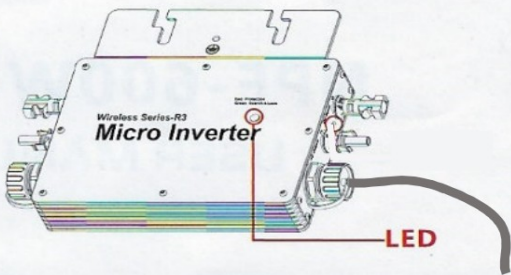
2. REGISTER DEVICE

.... at this time, the App will automatically collect the inverter code and jump to the WiFi connection page. You will see the name of the detected Wifi network (must be 2.4 GHz). Insert its password. Click next ...



3. START DEVICE

... Connect the inverter to the AC-power supply and to the DC-cables from the PV panels. At this time the LED indicator will be switched on, showing a blue light. Wait till a red light will blink together with the blue light....

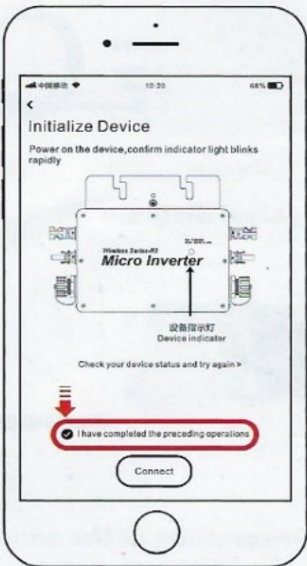


Important notice:

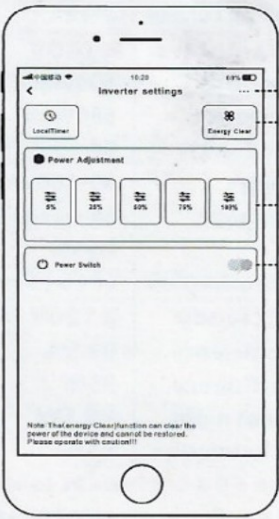
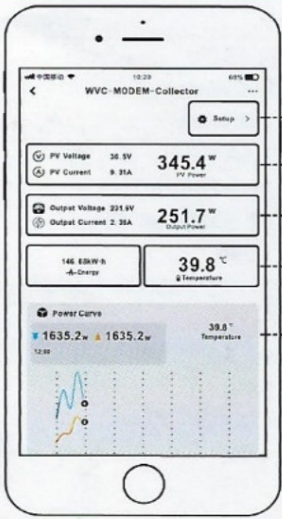
- Please strictly observe the following installation conditions:
- a. You need a WiFi network with single 2.4 GHz frequency (not 2.4 and/or 5, 5, 6 GHz)
 - b. You need a good WiFi signal nearby the inverter, if not available, position a WiFi repeater to improve the strength of the signal
 - c. Allow the App the access to your handy camera, sending information, access to your grid

3. SYNCHRONIZE DEVICE

... The inverter is now in the standby mode. Return to the „Cloud Intelligence“ –App. Check „I have completed the above operations“ and click the „Start Connection“ button. At this time, the page will jump to the signal search page. The page will automatically jump to the system completion confirming page, when the synchronization is ready to be finished. Please click „Finish“. The LED on the inverter is showing a stable blue light.

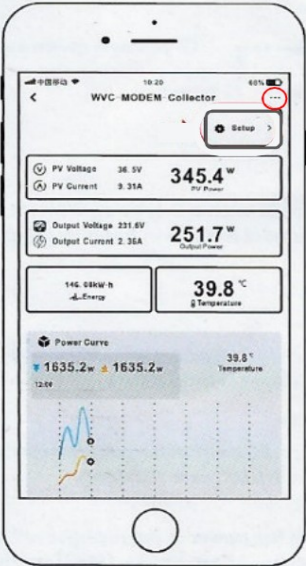


The „Cloud Intelligence“ App can realize real-time data transmission. Users can understand the operation of the PV power station, monitor the operation and – if required – setup the power output, the operation schedule and reset the hole system.



5. INDIVIDUAL SETTINGS

It is possible to share the monitoring of your device with third parties. Click on the 3 points in the upper right corner. Then click on „Device Sharing“ and insert the email address of the third party. Click on „Submit“ in the upper right corner. The third party must have an existing account on „Cloud Intelligence“. It will see a red, click on it and must accept your invitation to share the monitoring of your device.



Cloud Intelligence APP

