MICRO INVERTER

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

Download on the **App Store**

ANDROID APP ON **Google Play**

Wireless Series-R3
Micro Inverter
NEE-WNE700

Communication mode

LoRa

Router

Ali Could Server

APP

CO-2 induced environmental analysis   Inverter temperature

Daily and total energy generation in kWh   Optional limitation of power output

Actual DC input voltage, current and power   Online switch for the inverter start stop

Actual AC output voltage, current and power   Historical (daily, weekly, monthly) power curve

NEE-WNE700

USER MANUAL
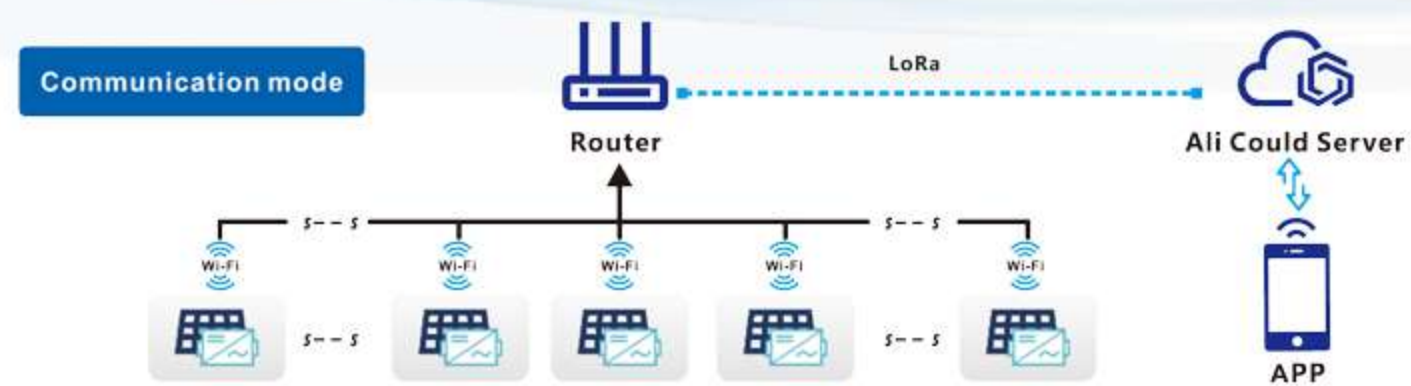
model	NEE-WNE700	
Recommend use panels	2*430Watt	
Output voltage mode	120/230V Auto switch	
PV Open circuit voltage	30-54VOC	
Operating voltage range	22-60V	
Starting voltage range	22-60V	
short-circuit current	2*16A	
Maximum working current	2*14A	

Output parameters	@120V	@230V
Output peak power	700Watt	700Watt
Rated output power	680Watt	680Watt
Output current	5.9A	3.05A
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

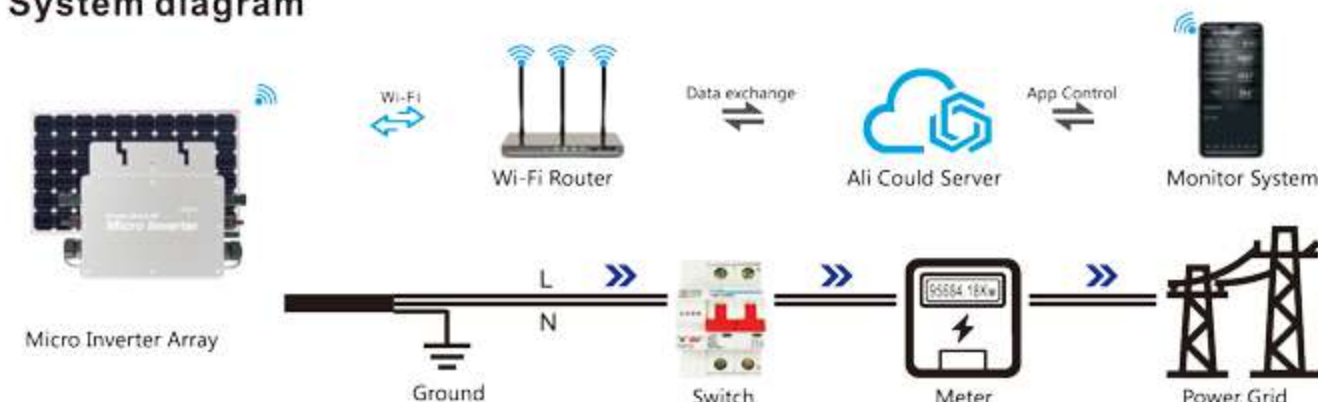|	
Temperature range	-40°C to +65°C
Size (L×W×H)	283mm×200mm×41.6mm
Net amount	1.56kg
Waterproof grade	Ip65 NEMA3R
Heat dissipation mode	Self-cooling
Communication mode	Wi-Fi
Power transmission mode	Reverse transmission,Load priority
monitoring system	APP
Electromagnetic Detection	EN61000-6-1:2007 EN6100-6-3:2007+A1:2011+AC:2012
Power Grid standard	EN50549-1、EN 50549-2、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

Packing weight

Specifications	Each (Packing)	Box (5PCS)
weight	2.8KG	14KG
Size	342×240×115mm	440×380×260mm

Detailed

Exterior

ANTENNA SCREW KIT USER MANUAL AC PLUG

Accessories

System diagram

Wi-Fi Router Ali Could Server Monitor System

Micro Inverter Array

Ground Switch Meter Power Grid

Description of the connector and cable core of the micro inverter

3-N-Neutral 1-L-Live wire

2-G-Ground

Wire end connector

G-yellow & green (4mm²)

N-blue (4mm²)

L-brown (4mm²)
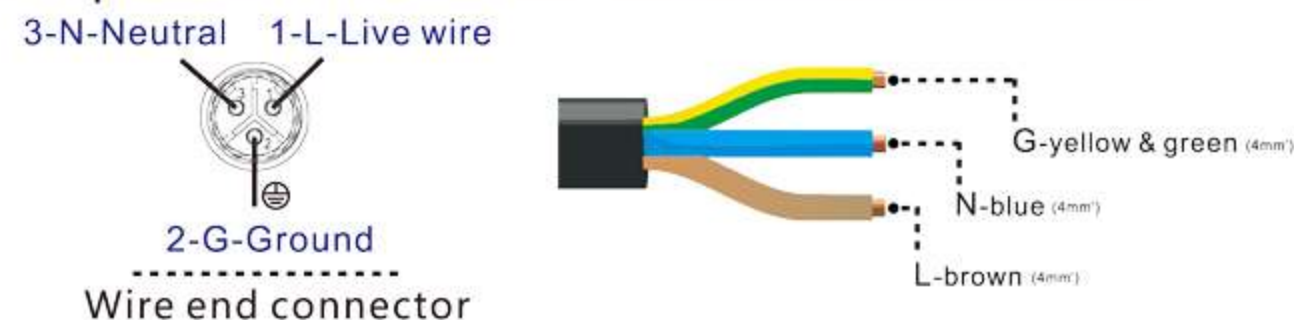
Note: You can purchase a professionally customized AC bus with a T-type connector. Use this AC bus as the AC bus for each branch. Connect it hand in hand to form a modular micro-inverter branch wiring system.

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 → the red light flashes for 30 seconds → the blue light flashes quickly (MPPT maximum power point search) → the blue light keeps on, (MPPT lock).
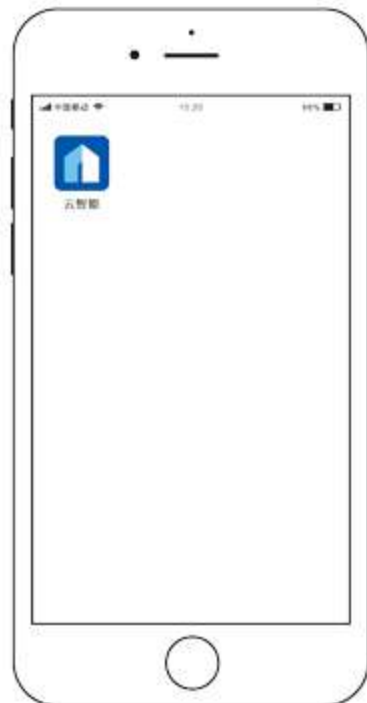
DOWNLOAD
Cloud Intelligence APP

Please use the QR code to scan and install the "Cloud Intelligence" client application, System version: Android 5.0, IOS 9 and above

Available on the App Store

GET IT ON Google Play

Note

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;

Reset

    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.

1 Add Device

    Open the intelligent monitoring software "Cloud Intelligence" APP to log inAccount, click the "+" icon in the upper right corner to start addingEquipment program;*If there is a device under the current account, click on the deviceIcon to enter the details page)
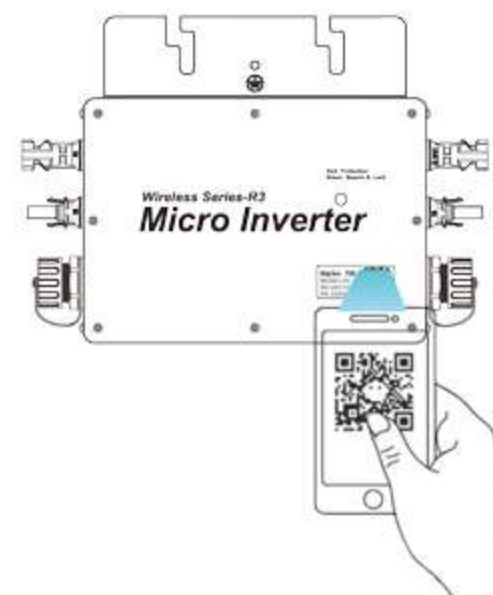
2 Entry equipment

    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;
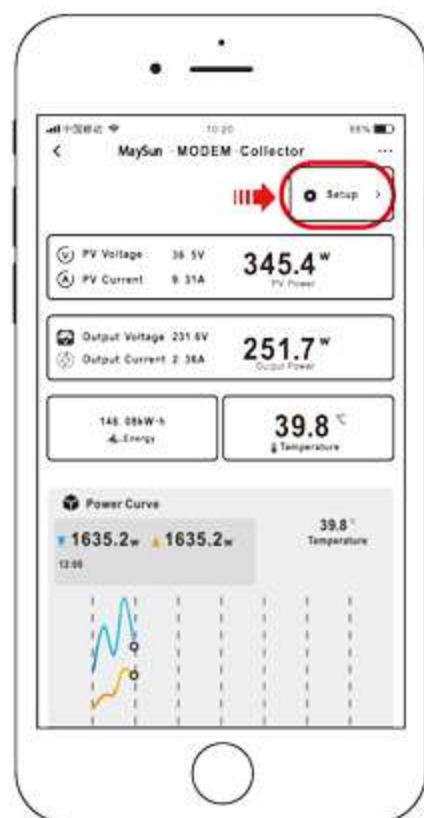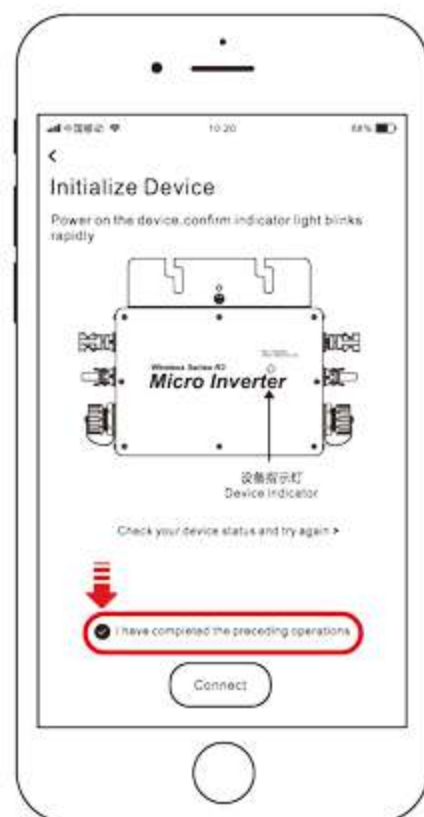
3 Disribution network

    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;

Reset

LED
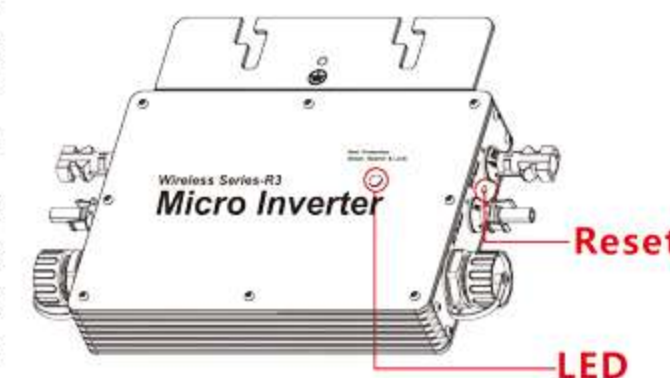
4 Initialization

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 automatically jump to the system completion confirmation page, please click "Finish".

Initialize Device

Power on the device,confirm indicator light blinks rapidly

Micro Inverter

设备指示灯
Device Indicator

Check your device status and try again ▸

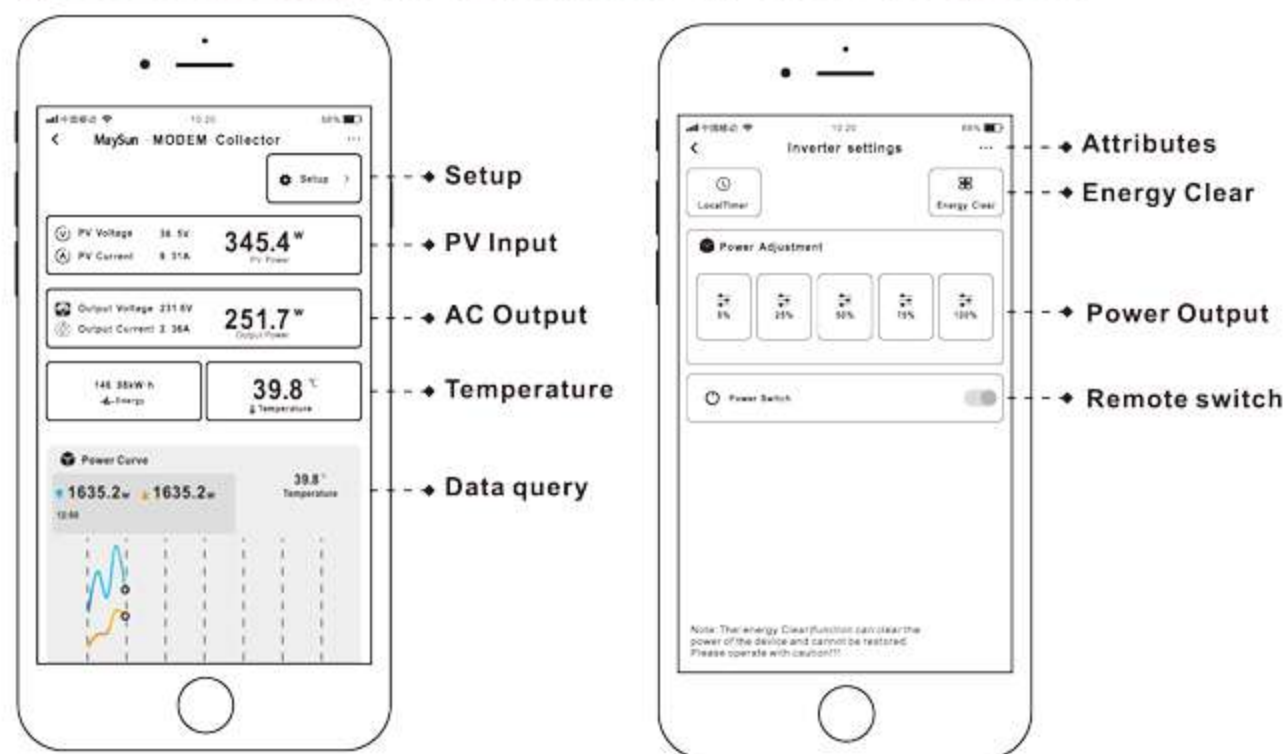✓ I have completed the preceding operations

Connect

5 Inverter Control

Click 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, theIn 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;

HELP 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.

- → Setup
- → PV Input
- → AC Output
- → Temperature
- → Data query

- → Attributes
- → Energy Clear
- → Power Output
- → Remote switch

INTELLIGENT Iot 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
- 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

Download on the App Store

ANDROID APP ON Google Play