

APLV-700/800/1000

Off-grid/Grid-connected Inverter

User Manual



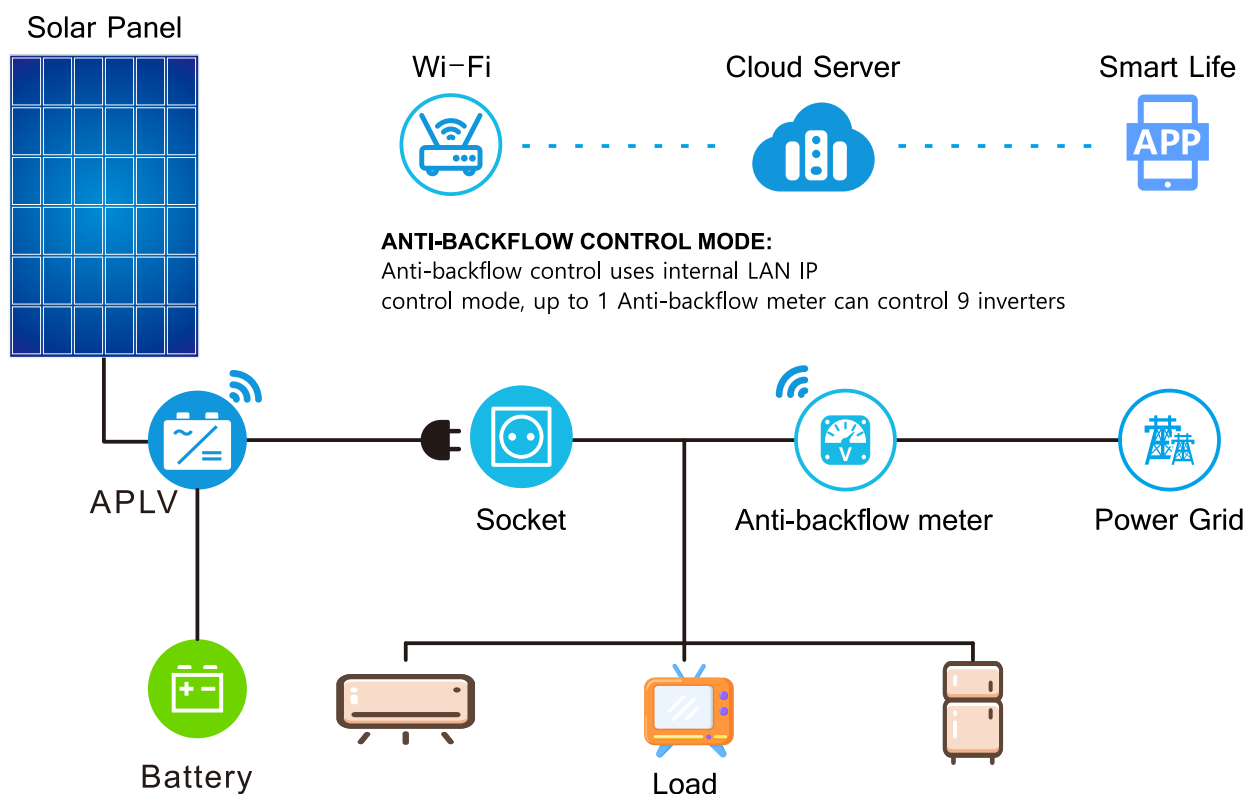
We provide you with

**SAFE, EFFICIENT AND LIGHTWEIGHT
SOLAR ENERGY SOLUTIONS**





SYSTEM STRUCTURE AND MONITORING MODE



Plug and play: users simply connect the inverter's input and output terminals to the corresponding connections and then plug it into a household outlet. The inverter will automatically enter operation after 30 seconds. When the inverter is installed within Wi-Fi coverage, customers can install the "Smart Life" app on their mobile phone to remotely monitor and control the device.

APLV series

Continuous Stability & Higher Efficiency

Supports Remote Query And Control Via Mobile Phone, And Can Manage Multiple Devices Under The Same Account.

Compatible With Ios And Android Systems, Easy To Share Home Management.



Smart Life



FUNCTIONS



High-precision MPPT PV fast charging

Real-time capture of maximum power point, ultra-high conversion efficiency of more than 97%+.



Grid AC reverse charging

The working mode can be set at a fixed time, storing energy during the day and supplying power at night.



On grid inverter output

Adapt to single crystal/polycrystalline/thin film modules, with a peak efficiency of more than 97%+.



Battery grid-connected inverter output

Supports multi-machine parallel expansion; intelligent anti-island protection, timed output setting



High-efficiency off-grid inverter output

No grid dependence, self-built independent microgrid, realize inverter off-grid output to load use.



LAN high-speed anti-backflow control

The anti-backflow control adopts the internal LAN control mode to prevent backflow output.

FEATURES



The latest DAB full-bridge topology technology is adopted to achieve high power density and flexible energy management capabilities, which can effectively improve power generation efficiency (peak efficiency is as high as over 98%).



All-round protection functions: overvoltage and undervoltage protection, overfrequency and underfrequency protection, overload protection, and anti-islanding function.



The mobile phone remote monitoring function can realize the functions of turning on and off the inverter, adjusting the output power, data analysis, power statistics, etc.



Built-in high-precision MPPT can quickly capture and locate the optimal operating point of the I-V curve, with a maximum power tracking efficiency of up to 99.9%.



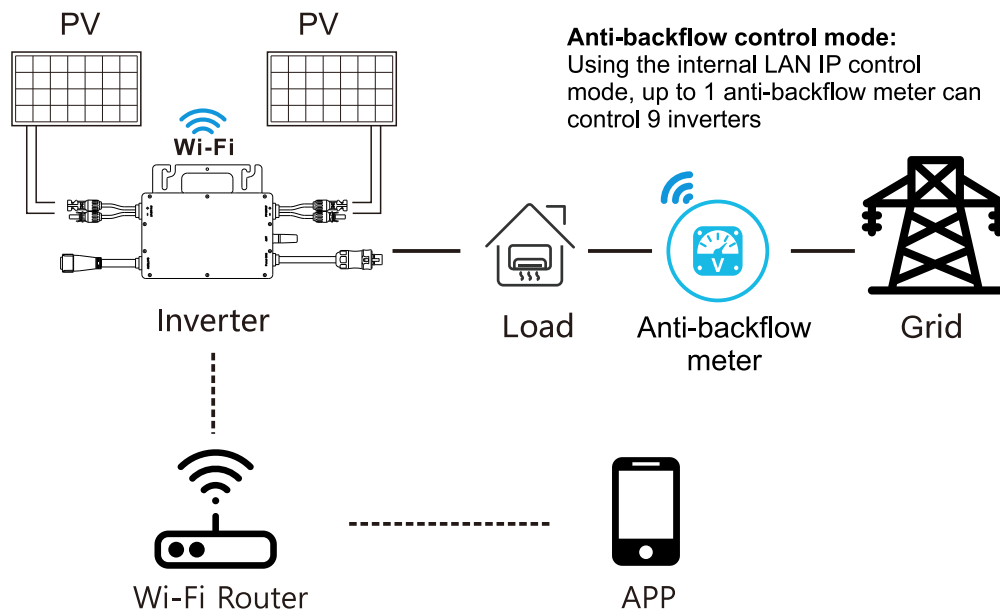
Built-in temperature detection ensures stable operation in extreme temperature environments, and the AI intelligent temperature control management function effectively improves safety and service life.



The anti-backflow control function adopts the internal LAN high-speed anti-backflow control. In the same LAN, one anti-backflow meter can control 9 inverters.

Working Mode

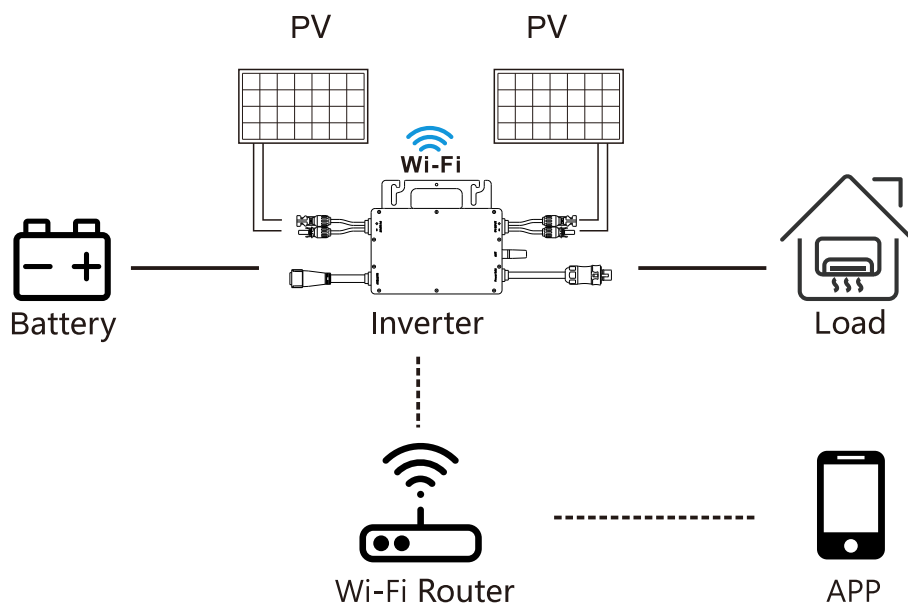
On-Grid Mode



Function introduction:

1. Normal grid-connected mode (without battery)
2. AC energy storage mode (peak discharge and low-peak storage)
3. Photovoltaic energy storage mode (pure photovoltaic energy storage for nighttime electricity use)

Off-Grid Mode



Function introduction:

1. No need for grid support, intelligent voltage output.
2. Supports multiple stacking.

APLV-700/800/1000 Off-grid/Grid-connected Inverter User Manual

Model	APLV-700	APLV-800	APLV-1000
On-Grid parameters			
Max solar panel input power	2×435W	2×500W	2×625W
Rated output power	700W	800W	1000W
Rated output current	3A	3.5A	4.35A
Starting Voltage	>22V d.c.		
MPPT operating voltage range	16~60V		
Nominal output voltage	230V a.c (184~264VAC)		
Maximum output efficiency	97%+		
CEC peak efficiency	98.5%		
Nominal output frequency	50Hz/47.5~51.5Hz 60Hz/57.5~61.5Hz		
Total harmonic distortion	<3%		

Off-Grid parameters			
Max input power	700W	800W	1000W
Maximum DC input current	30.5A	35A	43.5A
Rated output power	700W	800W	1000W
Rated output current	3A	3.5A	4.35A
Operating voltage range	24~60V d.c		
Inverter starting voltage	>24V d.c.		
Nominal output voltage	230V a.c (184~264VAC)		
Maximum output efficiency	97%+		
CEC peak efficiency	98.5%		
Nominal output frequency	50Hz/47.5~51.5Hz 60Hz/57.5~61.5Hz		
Total harmonic distortion	<5%		

PV charging parameters	
PV maximum charging current	30A
PV charging input voltage range	16~60V d.c
PV charging output voltage range	16~60V d.c
Maximum tracking efficiency	99.5%
CEC Peak Efficiency	99.0%
Solar Charging SOC	Learning intelligent algorithm

AC reverse charging parameters	
Maximum charging current	3A/3.5A/4.35A
Rated AC charging power	700W/800W/1000W
AC charging voltage	230V a.c
AC charging with maximum efficiency	97.5%
AC charging frequency/range	50/60Hz
AC charging SOC	Learning intelligent algorithm

Mechanical data	
Ambient temperature range	-40~+65°C
Enclosure protection grade	Ip67
Size	230*200*42mm
Communication Mode	Wi-Fi
Monitoring system	Smart Life
General function control	ON/OFF, output power adjustment 0~100%
Output power factor	>0.99 default/0.8 leading ... 0.8 lagging
Isolation Type	Full isolation

About Inverter

The APLV-700/800/1000 series off-grid/grid-connected inverters efficiently convert direct current (DC) into grid-compliant alternating current (AC) and feed this power into the grid. They can also be used with batteries for energy storage or off-grid output, supplying power to loads.

Each inverter in the APLV-700/800/1000 series off-grid/grid-connected inverters operates independently. Connecting to a 2.4G Wi-Fi connection enables monitoring, providing real-time status information to ensure maximum power generation from the PV panels and enhance system flexibility, availability, and reliability.

About this manual

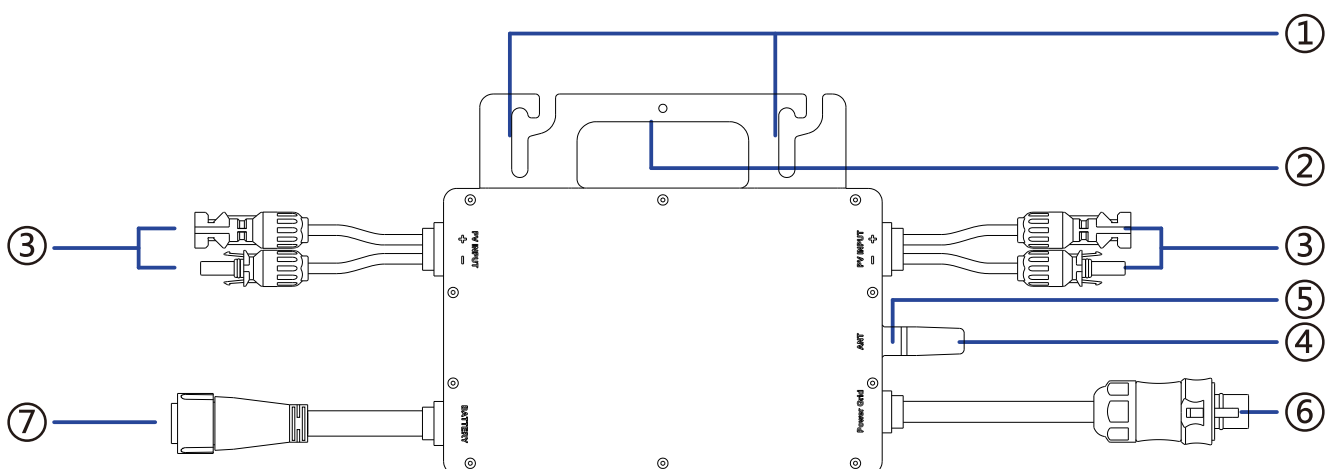
This manual contains important information about the PVMI-700/800/1000 series off-grid/grid-connected inverters. Users should read this manual thoroughly before installing or commissioning the inverter. For safety reasons, technicians responsible for installing, operating, and maintaining this inverter must be qualified, trained, and skilled. They must strictly follow the instructions in this manual during installation, operation, and maintenance.

Other Information

Product information is subject to change without prior notice. The user manual will be updated regularly. Please contact customer service for the latest version.

Interface Diagram

- ① Inverter screw mounting holes
- ② Ground wire connection hole (*The inverter housing must be grounded)
- ③ Connect the solar panel DC input
- ④ Wi-Fi antenna
- ⑤ LED status indicator
- ⑥ Connect the grid cable AC output
- ⑦ Connect the battery



CATALOG

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1. Important Notes

1.1 Product Range

This manual mainly introduces the assembly, commissioning, maintenance and troubleshooting methods of the APLV-700/800/1000 off-grid/grid-connected inverter.

- APLV-700
- APLV-800
- APLV-1000

*Note: "700" means 700W, "800" means 800W, "1000" means 1000W,

This product complies with the following certification standards:

- DIN VDE 0126-1-1 (VDE V 0126-1-1):2013-08 VFR 2019
- EN 55011:2016+A2:2021;BS EN 55011:2016+A2:2021
- EN IEC 61000-3-2:2019+A1:2021; EN IEC 62311:2020
- EN 301 489-1 V2.2.3 (2019-11);IEEE 1547A:2014
- ABNT NBR 16149:2013;ABNT NBR 16150:2013
- DIN VDE V 0126-1-1 (VDE V 0126-1-1):2013-08
- DIN VDE V 0124-100 (VDE V 0124-100):2012-07
- EN 300 328 V2.2.2 (2019-07)
- ANEXO III – parte 2, Portaria n.º 357, de 01 de agosto de 2014
- VDE-AR-N 4105 (VDE-AR-N 4105):2011-08
- BS EN IEC 61000-3-2:2019+A1:2021
- IEC 62109-1:2010; IEC 62109-2:2011
- CISPR 11:2015/AMD2:2019
- UL 1741:2010 Ed.2+R:16Sep2020
- CSA C22.2#107.1:2016 Ed.4
- ABNT NBR IEC 62116:2012
- EN 301 489-17 V3.2.4 (2020-09)

1.2 Target User

For safety purposes, only a qualified technician who has received training or has demonstrated competence may install and maintain this inverter under the guidance of this document.

1.3 Symbols Used

The safety symbols in this user manual are shown below.

Symbol	Usage
	Indicates a hazardous situation that can result in deadly electric shock hazards, other serious physical injury, or fire hazards.
	This symbol indicates instructions that must be followed carefully to avoid potential safety hazards (such as equipment damage or personal injury). This product complies with the essential requirements of EU Directive 2014/53/EU. ● During installation, install the inverter below the solar panel. The DC cable length from the solar panel to the inverter should not exceed 3 meters. ● This device complies with Part 15 of the EMC Directive. Operation is subject to the following two conditions: 1. This device may not cause harmful interference. 2. This device must accept any interference received, including interference that may cause undesired operation.
	Indicates that the described operation must not be carried out. The reader should stop, use with caution and fully understand the operations explained before proceeding.

2. About Safety

2.1 Important Safety Instructions

The APLV-700/800/1000 off-grid/grid-connected inverters are designed and tested in strict accordance with relevant international safety standards. However, when installing and using this series of inverters, you must still read and comply with all instructions, precautions, and warnings in this installation manual.

- All operations including transport, installation, start-up and maintenance must be carried out by qualified and trained personnel.
- Before installation, inspect this product to ensure it has not been damaged during transportation. Any damage may affect the inverter's insulation performance or safety distances. Carefully select the installation location and adhere to specified cooling requirements. Unauthorized removal of necessary protective equipment, improper use, or improper installation procedures may result in equipment damage, serious safety incidents, and electric shock.
- Before connecting the inverter to the power distribution grid, contact the local power distribution grid company to obtain the appropriate approvals. This connection must be made only by qualified technical personnel. It is the responsibility of the installer to provide external disconnect switches and Overcurrent Protection Devices (OCPD).
- Only one PV module can be connected to one input of the inverter. Do not connect batteries or other power supply sources. When using the inverter, ensure that all operating environment parameters are within the ranges listed in the technical specifications.
- Do not install the equipment in adverse environments, such as environments that are flammable, explosive, corrosive, extremely hot or cold, or humid. Do not use the equipment when the safety devices do not work or are disabled.
- Personal protective equipment, including gloves and goggles, is required during installation.
- For non-standard installation conditions, please consult the manufacturer.
- Do not use the device if it operates abnormally.
- If the equipment requires repair, only qualified parts should be used. Parts should only be used for their intended purpose and should be installed by an authorized contractor or authorized service representative.
- Our company is not responsible for any liability caused by the use of parts produced by other manufacturers or non-original accessories.
- After the inverter is disconnected from the public grid, some components may still be energized. Be careful to avoid electric shock. Before touching the inverter, ensure that the surface temperature of the device is safe and the voltage potential of the entire device is within the safe range.
- Our company is not responsible for any personal injury or property loss caused by improper operation or non-standard installation.
- Electrical installation and maintenance should be performed by qualified electricians, and wiring should comply with local regulations.
- Disclaimer: Regarding the EN62920 test standard, we use EU standard PV cables within 3 meters of length and are exempt from inspection.

2.2 Explanation of Symbols

Symbol	Usage
	Treatment To comply with European Directive 2002/96/EC on Waste Electrical and Electronic Equipment and its implementation as national law, electrical equipment that has reached the end of its life must be separately collected and returned to an approved recycling facility. Any device no longer required must be returned to an authorized dealer or approved collection and recycling facility.
	Caution Do not come within 8 inches of the inverter for any length of time while it is in operation.
	Danger of high voltages Danger to life due to high voltage in the inverter.
	Beware of hot surface The inverter can become hot while operating. Avoid contact with metal surfaces while operating.
	CE mark The inverter complies with the requirements of the Low Voltage Directive for the European Union.
	Read manual first Please read the installation manual first before installation, operation and maintenance.

2.3 Radio Interference Statement

This inverter has been tested and found to comply with CE EMC requirements and is immune to electromagnetic interference. Please note that this product may cause electromagnetic interference if improperly installed. You can test whether this device is interfering with radio or television reception by turning the inverter off and then on again. If this device is interfering with radio or television reception, please try the following measures to eliminate the problem:

1. Adjust the antenna mounting position of other electrical appliances.
2. Increase the distance between the inverter and the antenna.
3. Use shielding materials such as metal/concrete or a roof to separate the inverter and the antenna.
4. Seek assistance from your local dealer or an experienced radio technician.

3. About Product

3.1 About 2-in-1 Unit

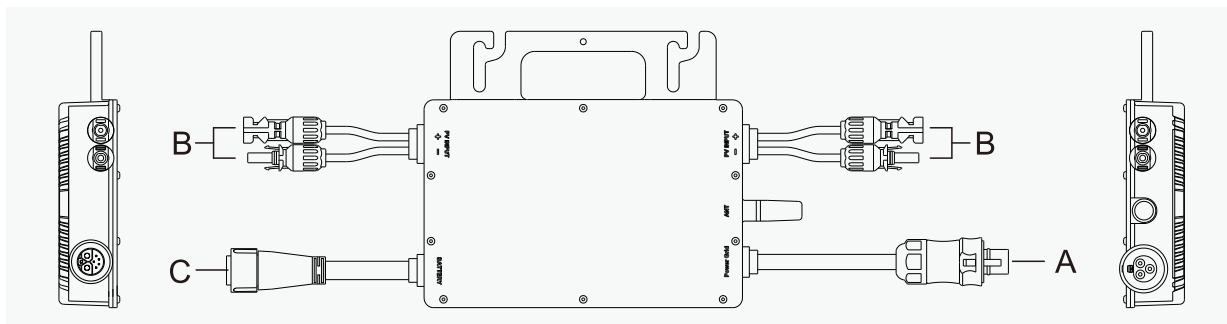
The APLV-700/800/1000 off-grid/grid-connected inverter has a DC operating voltage range of greater than 22V and less than 60V.

The APLV-700/800/1000 is 2-in-1 Unit off-grid/grid-connected inverter and offers high CEC-weighted efficiency, reaching 97.60% in 2025 (peak efficiency 98.30%).

3.2 Highlights

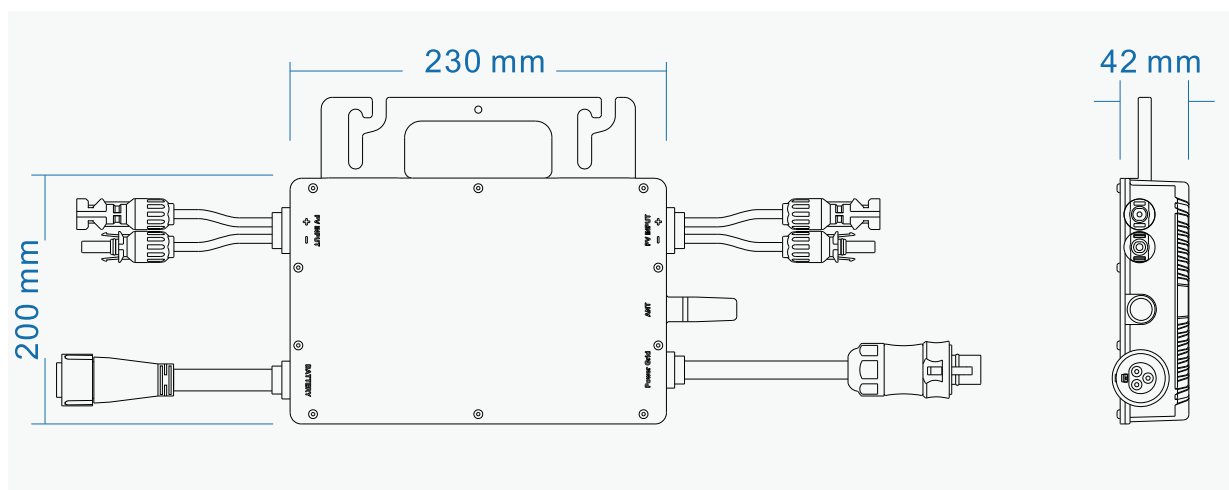
- Maximum output power up to 700W/800W/1000W.
- Peak efficiency 98.30%. CEC-weighted efficiency up to 97.60%.
- Static MPPT efficiency 99.80%. Dynamic MPPT efficiency 99.76% on cloudy days.
- Power factor (default/adjustable): 0.99/0.85 leading, 0.85 lagging.
- External antenna for enhanced communication with Wi-Fi signal sources.
- High reliability: Ip67 enclosure. 2000V surge protection.

3.3 Terminals Introduction



Object	Description
A	AC power grid connection (male)
B	Connecting solar panels
C	DC battery connection

3.4 Dimension (mm)



4. About function

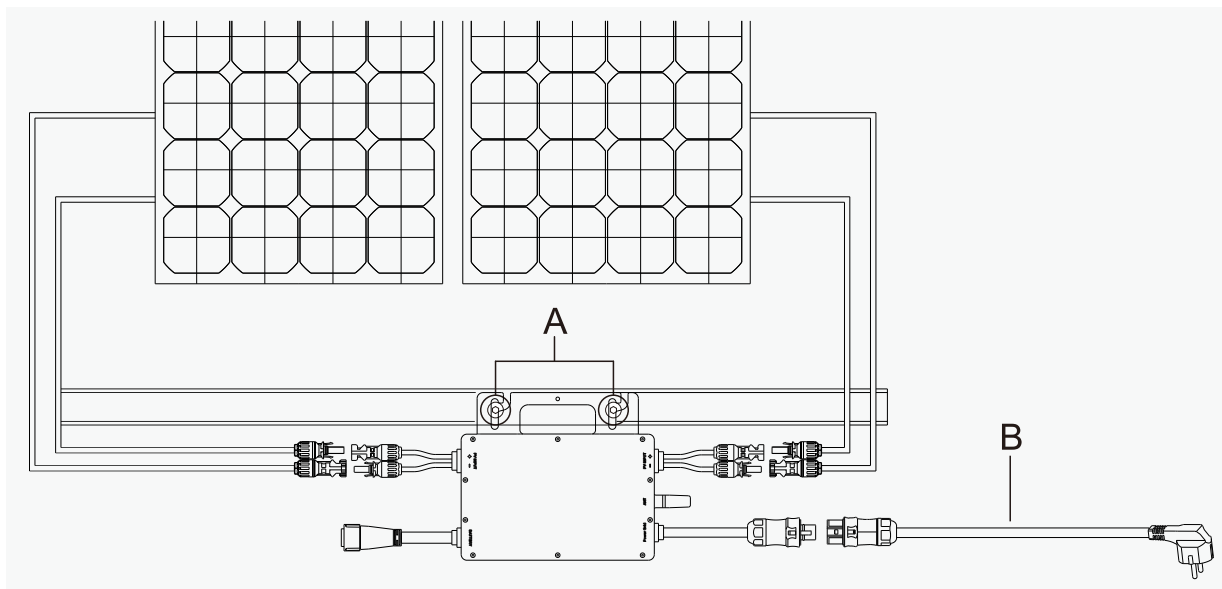
4.1 Work Mode

When the inverter is operating normally, it converts the DC power generated by the PV panels into AC power, which is then preferentially supplied to household loads or fed into the public grid in both off-grid and grid-connected modes. It can also be reverse-charged from the grid to rapidly charge the battery. The inverter's internal MPPT controller can also rapidly charge the battery using the PV power.

- **Mode 1:** Grid-connected output function: The inverter outputs power to the grid, either from the PV panels or from the battery.
- **Mode 2:** Off-grid output function: Power is directly supplied to the load without connecting to the grid.
- **Mode 3:** PV charging function: The inverter's internal MPPT controller rapidly charges the battery while simultaneously outputting power off-grid or on-grid.
- **Mode 4:** AC reverse charging function: The inverter performs timed reverse fast charging with AC power, but cannot simultaneously output power off-grid or on-grid.

5. About installation

5.1 Accessories

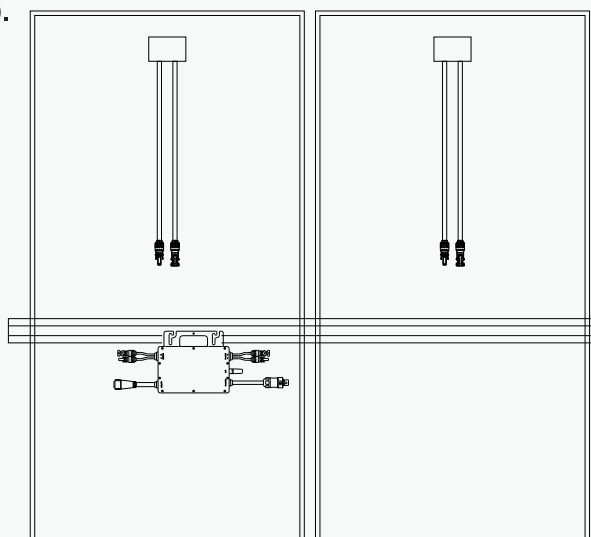


Object	Description
A	M8*20 screw sleeve
*B	AC output cable (purchased separately)
*Note: 1. The AC output cable is optional and requires additional purchase. Please contact customer service for details. 2. If you require energy storage or off-grid functionality, please purchase additional batteries.	

5.2 Installation Precautions

Please install the inverter and all DC connections under the PV module to avoid direct sunlight, rain exposure, snow pile-up, UV, etc. Allow a minimum of 2cm of space around the inverter enclosure to ensure ventilation and heat dissipation.

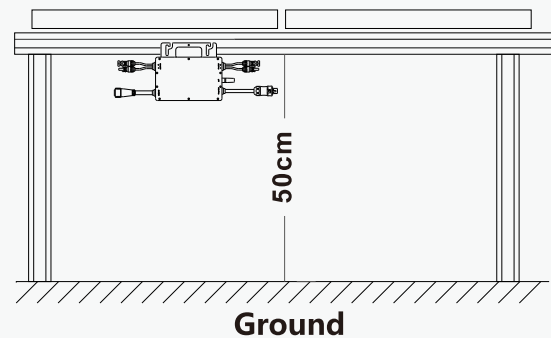
*Note: For some countries, the will be required to meet local grid regulations (e.g. G98/99 for UK).



Back of Solar Panel

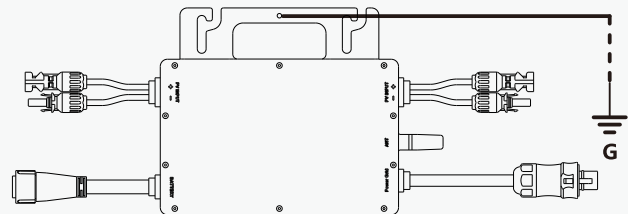
5.3 Required space distance

If the inverter is installed on a concrete or steel roof, communication with the rooftop may be slightly affected. In such installation conditions, it is best to install the inverter at least 50 cm from the rooftop/ground. Otherwise, you may need to install a Wi-Fi router nearby to ensure communication quality with the inverter.



5.4 Grounding Considerations

This micro-inverter is a Class I device with a basic isolation transformer and a ground wire inside the AC cable. This inverter requires a ground wire on the housing. When installing this inverter, connect the ground wire to the ground connection hole on the inverter housing.



***The housing must be grounded**

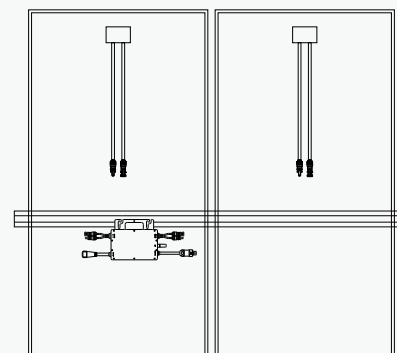
5.5 Preparation

Installation of this device is based on the system design and the device installation location.

- Refer to the technical data to ensure that environmental conditions meet the requirements of the inverter (protection level, temperature, humidity, etc.).
- To prevent power loss due to increased internal temperature of the inverter, do not expose it to direct sunlight.
- To prevent overheating, always ensure that airflow around the inverter is not blocked.
- Do not install in locations where gas or flammable substances may be present.
- Avoid electromagnetic interference that may affect the normal operation of electronic equipment.
- Ensure that the bracket or structure to which the inverter is mounted can support the weight of the inverter.

When choosing the installation position, comply with the following conditions:

- Install only on a structure designed specifically for PV panels (provided by the installation technician).
- Mount the inverter directly in the center of the back of the solar panel to protect it from rain and direct sunlight, which could overheat the inverter and affect output power.

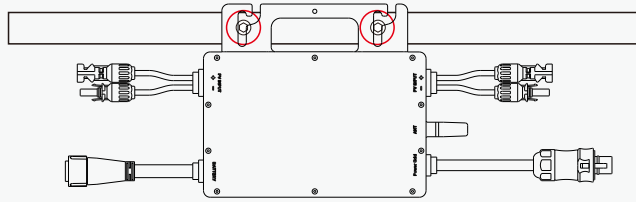


Inverter installation location

5.6 Installation Steps

Step 1. Install the micro inverter on the rail

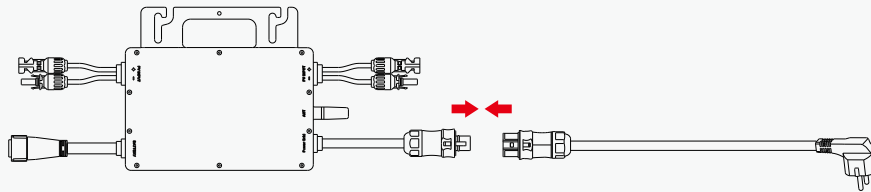
- A) Mark the approximate center of each panel on the frame.
 B) Secure the screws to the rails.
 C) Hang the inverter on the screws (as shown in the image to the right) and tighten the screws.



Step 2. Install the cables

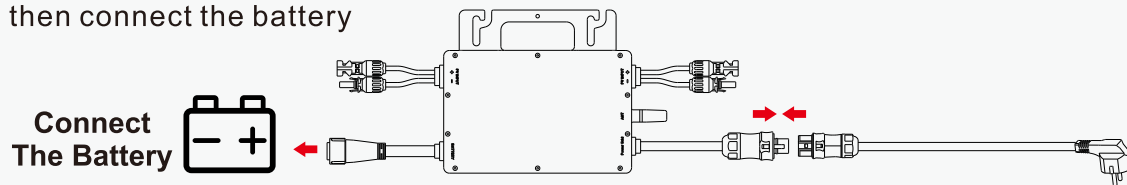
No battery)

Insert the AC output wire terminal (female) into the inverter output terminal (male)



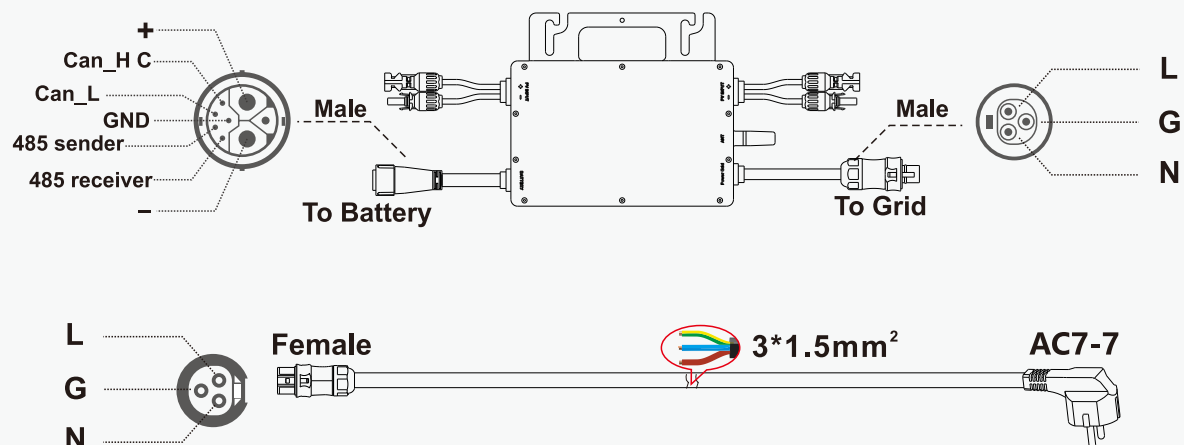
with batteries)

Insert the AC output line terminal (female) into the inverter output terminal (male), and then connect the battery



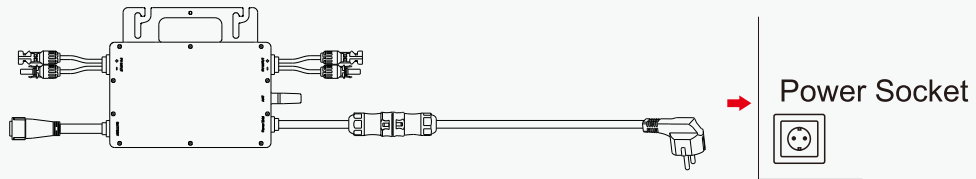
*Terminal & Cable Diagram

When connecting the battery, ensure the correct polarity of the battery is followed when installing the cable.

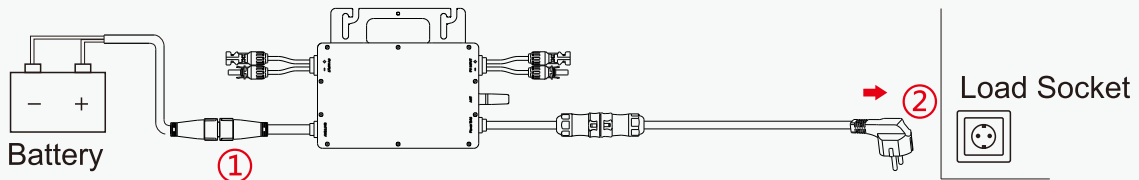


Step 3. Connect to the grid

Grid-connected mode) Plug the AC grid-connected cable into the grid socket

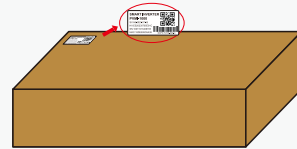


Energy storage/off-grid mode) First connect the battery to the inverter, then plug the cable into the load socket



Step 4. Create an installation diagram

A) Tear off the QR code label;
(The label is located on the packaging as shown in the image to the right).



B) Attach the QR code labels to your construction drawings to record the installation sequence for easy reference and maintenance.

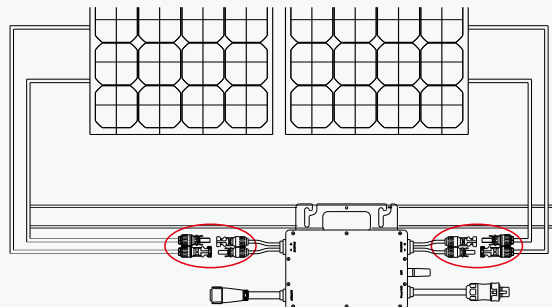
Micro inverter construction drawing

Inverter Type	Model	Serial Number	Installation Information				Installation Date	Installer
			1	2	3	4		

Step 5. Connect the solar panel

A) Install the inverter on the rails on the back of the solar panel (please do not install the inverter directly in an unobstructed environment)

B) Connect the MC4 terminal of the solar panel to the MC4 terminal of the inverter.



Step 6. Connect to the grid

A) Turn on the branch AC breaker.

B) Turn on the main AC breaker for the house. Your system will begin generating power after approximately 30 seconds.

Step 7. Set up the monitoring system

Please refer to the "Smart Life" monitoring platform quick installation guide to install and set up your monitoring system.

6. Monitoring system

6.1 APP Installation Requirements



You can search for "Smart Life" on the Apple Store or Google Play to download and install it, or scan the QR code below to download and install.





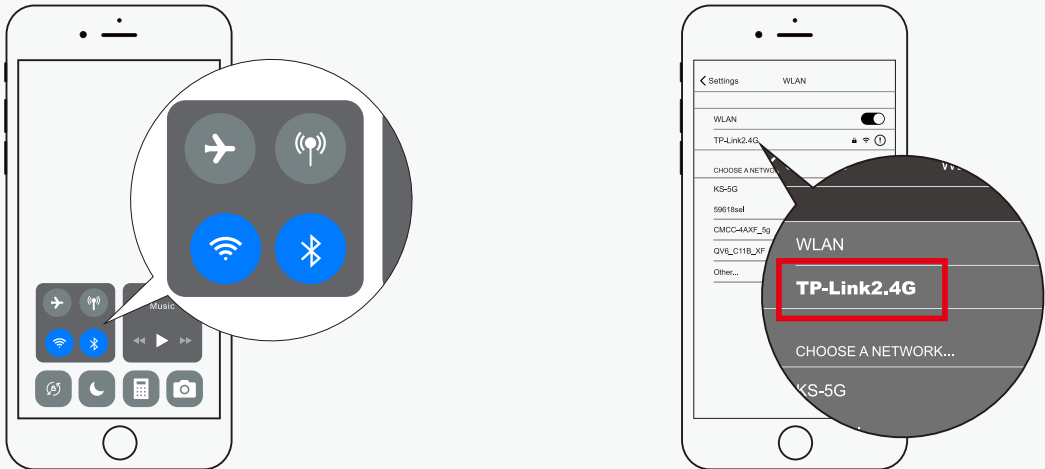


CHINA International Edition

Please scan the corresponding QR code according to your region to download

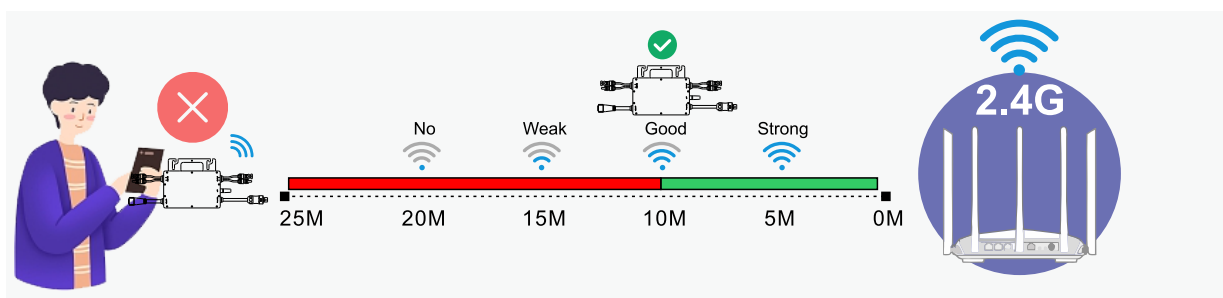
! Mobile Phone Function Need Enabled

1. Please enable Bluetooth. (Android systems require GPS positioning.)
2. Please use a 2.4G Wi-Fi signal source.



! Wi-Fi network environment requirements

Please use your mobile phone to check the 2.4G Wi-Fi signal source near the inverter to see if it is strong. If the Wi-Fi signal is weak, please adjust the position of the wireless router or add a Wi-Fi signal booster to ensure that the location of the inverter has good Wi-Fi signal coverage.



6.2 Add Equipment

Bluetooth mode (does not support QR code scanning to add)

Step 1. Open Smart Life and tap "Add Device" or the "+" icon in the upper right corner to add a device.

Step 2. When the device is discovered and the inverter icon appears, tap "Add."

*If the device cannot be found, check whether you are too far away from the inverter and whether Bluetooth discovery of nearby devices is enabled.

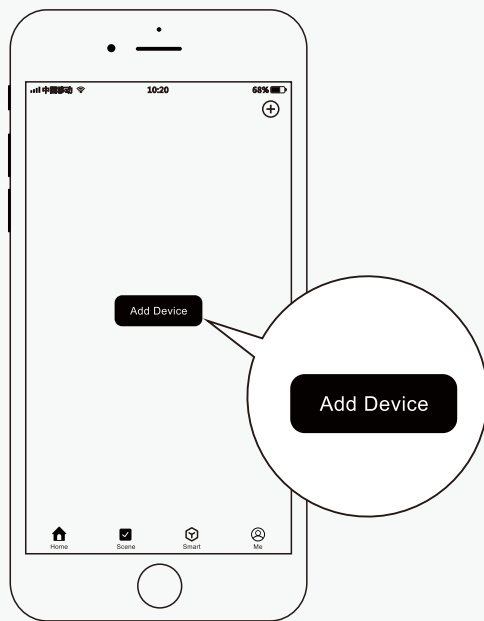


Figure 1

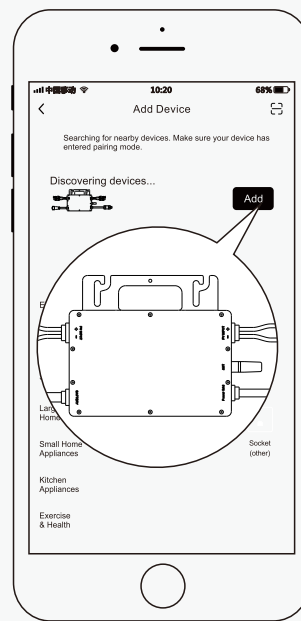


Figure 2

Step 3. Select 2.4G Wi-Fi, enter the correct Wi-Fi password, and click "Next."

(*Connection may fail if the Wi-Fi mode is 2.4G+5G. Please switch to 2.4G.)

Step 4. After the inverter completes the network configuration, the screen will appear as shown in Figure 4. Click "Finish" and the system will automatically redirect to the details page.

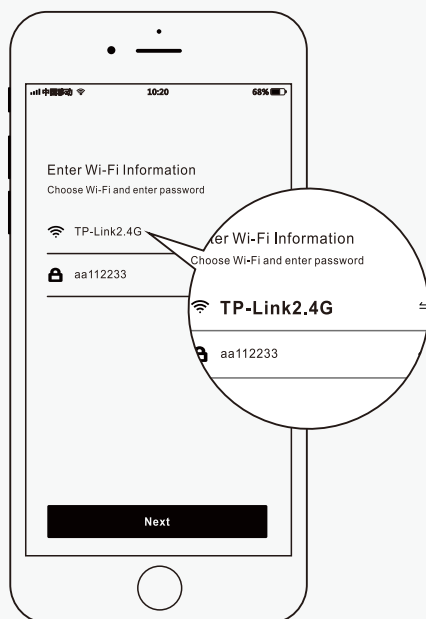


Figure 3

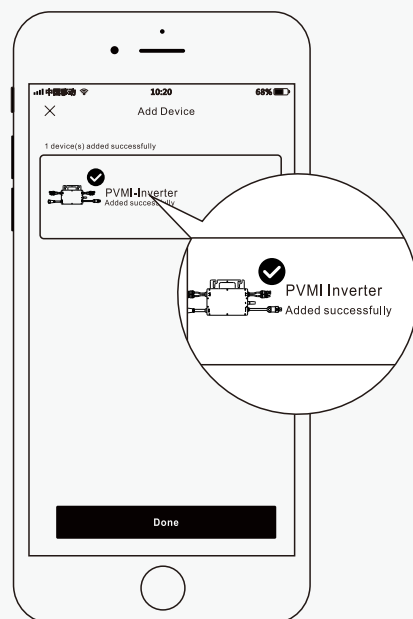
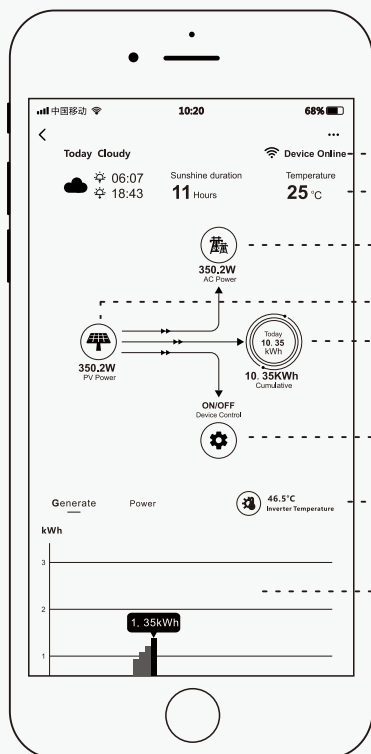


Figure 4

6.3 APP Function



Main interface



Device Network Status

Weather Conditions

AC Power (Click to View Detailed Function Display)

PV Power (Click to View Detailed Function Display)

Today (Click to View Detailed Function Display)

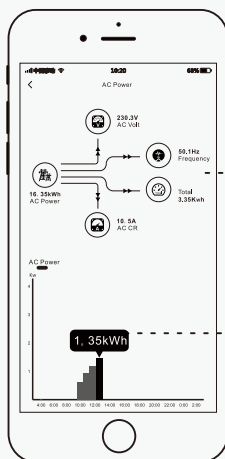
Control (Click to View Detailed Function Display)

Inverter Temperature

Power Generation/Power Display

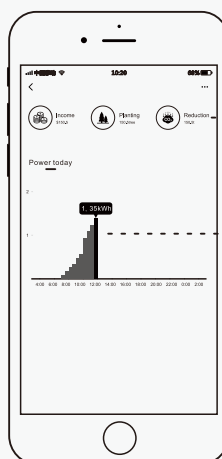


Function



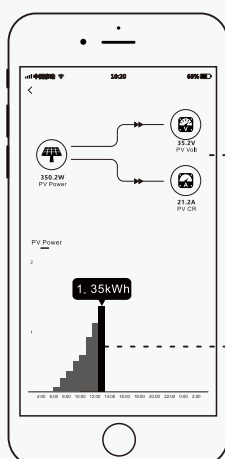
AC Details

AC Power



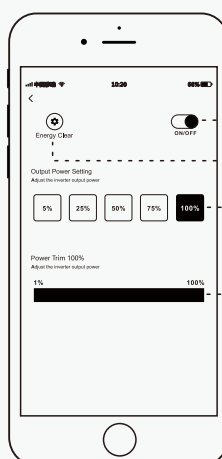
Energy Saving Data Display

Power Generation Today



PV Details

PV Power



Inverter On/Off

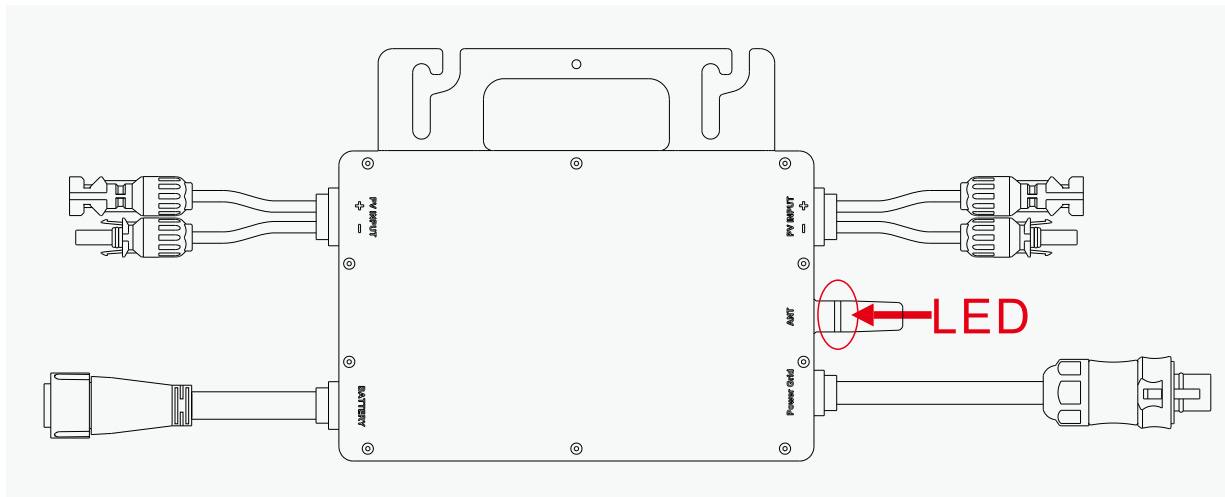
Energy Clear

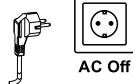
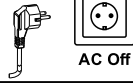
Output Power Setting

Power Trim

6.4 Status LED

The inverter's LED status lights are blue and red. When the DC and AC voltages meet the inverter's starting voltage and AC frequency, the inverter enters a delayed startup automatic detection state. The LED then flashes red and the delayed startup begins (flashing red for 30 seconds). When the automatic detection is complete and the inverter returns to normal output, the LED flashes blue rapidly.



Power Outlet	Add to Smart life	LED Light Display	Description Explanation
			Led Light Flashes Red
			The LED light flashes blue/steady on, and the red LED light flashes once every 3s.
			Red LED light always on
			Blue LED light is always on (MPPT lock)/blue LED light flashes (MPPT tracking)

6.5 Insulation Resistance Detection

The inverter has a PV panel leakage detection device. If the inverter detects a PV panel leakage, it will automatically disconnect and stop operating until the fault is resolved, at which point it will restart. If the PV panel leakage persists, please contact your installer for resolution.

6.6 On-site Inspection (Qualified Installers Only)

If the inverter fails, please follow the steps below to troubleshoot.

1	Verify that the utility voltage and frequency are within the ranges shown in the Technical Data Appendix for this inverter.
2	Check the grid connection. Disconnect the AC and DC power supplies. Important! While the inverter is running, first disconnect the AC power supply, then the inverter, and then the DC power supply. Reconnect the PV panels to the inverter. Once connected, the LED will turn red, indicating that the DC side wiring is normal. Reconnect the AC power supply. The LED will flash red rapidly for 30 seconds before returning to normal output. Never disconnect the DC side of the inverter while it is running.
3	Check the AC branch circuit interconnections between all inverters. Verify that each inverter is powered by the utility grid, as described in the previous step.
4	Make sure all AC circuit breakers are functioning properly and are closed.
5	Check the DC connection between the inverter and the PV modules.
6	Verify that the DC voltage of the PV panels is within the allowable range shown in the Technical Data Appendix of this manual.
7	If the problem persists, please call sales or after-sales support.
	Do not attempt to repair the inverter. If troubleshooting fails, return it to the factory for replacement.

6.7 Routine Maintenance

1. Only authorized personnel are allowed to perform maintenance operations, and authorized personnel are responsible for reporting any abnormal conditions.
2. When performing maintenance, be sure to use personal protective equipment provided by your employer.
3. During normal operation, check whether the environment and installation location are correct. Make sure these conditions have not changed over time, and that the equipment is not exposed to adverse weather conditions and is not covered by foreign objects.
4. Please do not use the product if you find any problems. You can continue to use it after the problems are solved.
5. Carry out annual inspection of each component and clean the equipment with a

	Do not dismantle or repair the inverter without authorization! To ensure safety and insulation performance, users are prohibited from repairing internal components!
	Do not replace the AC output harness (AC cable on the inverter). If the wires are damaged, the device should be scrapped.
	Unless otherwise specified, during maintenance, the equipment must be disconnected from the grid (disconnect the power switch) and the PV panels must be shielded or isolated.
	Never use rags made of filamentous or corrosive materials to clean the device, as this may cause corrosion or generate static electricity.
	Do not attempt to repair the product yourself. When repairing, use only qualified parts.
	Each branch line should be equipped with a circuit breaker.

6.8 Replacing the Inverter

a. How to remove the inverter:
1. Disconnect the power supply at the branch AC circuit breaker.
2. Remove the PV panels from the PV mounts to facilitate meter inspection.
3. Use a clamp meter to check and ensure that there is no residual current in the DC cable between the PV panels and the inverter.
4. Using the DC disconnect tool, remove the DC terminals.
5. Using the AC disconnect tool, remove the AC branch line connector.
6. Unscrew the fixing screws on the top of the inverter and remove the inverter from the PV bracket.
b. How to replace the inverter in the monitoring platform
1. Please write down the serial number of the inverter you are replacing.
2. Make sure the AC branch circuit breaker is off, and then refer to the "Installation Steps" to install the new inverter.
3. Enter the monitoring platform (if the customer has already registered online), enter the "Device" page and add the new device according to the normal method of adding an inverter to complete the replacement.

6.9 Precautions

	This equipment must be installed according to the following system design requirements:
•	Ensure mechanical compatibility between the inverter connector and the PV panel connector to which it is connected.
•	Refer to the technical data to ensure that the installation environment conditions meet the requirements of the inverter (protection level, ambient temperature, installation location, etc.)
•	The maximum open-circuit rated voltage of the PV panels must be within the operating voltage range of the inverter.
•	To avoid overheating, always ensure that the airflow around the inverter is unobstructed.
•	The inverter needs a good shielding environment to prevent direct sunlight or rain intrusion.
•	Avoid installing in places with electromagnetic interference to prevent affecting the normal operation and communication of electronic equipment.

7. Decommissioning

7.1 Decommissioning

Follow these steps to disconnect the AC and DC sides of the inverter:

1. Disconnect the inverter from the AC output.
2. Disconnect the inverter from the DC output.
3. Remove all connecting cables from the inverter.
4. Remove the inverter from the rack.
5. Place the inverter in its original packaging.

If the original packaging is no longer available, use an equivalent packaging carton that meets the following requirements:

- Capable of supporting 5 kg
- Fully enclosed

7.2 Storage And Transportation

- To facilitate transportation and subsequent handling, the inverter packaging is specially designed to protect all components. When transporting the device, especially by road, proper protection of components (especially electronic components) must be taken to protect them from exposure to factors such as extreme moisture, shock, and vibration.

Please properly handle packaging materials to prevent accidental personal injury.

- Upon receipt of the inverter, please inspect the outer packaging for damage.
- If the outer packaging is damaged, please contact the carrier immediately.
- After unpacking, please inspect the inverter for external damage and ensure all accessories are present. If the inverter is damaged or parts are missing, please contact the supplier to request repair, replacement, or reissue and inquire about the relevant procedures.

- The inverter should be stored between -40°C and 85°C.

7.3 Disposal

- If the device is no longer in use or needs to be stored for an extended period, ensure that the packaging is intact. Store the device in a well-ventilated indoor area that will not damage the device components.
- When restarting a device that has been out of service for an extended period, perform a comprehensive inspection.
- The modules and other components contained in the inverter may pollute the environment. Please dispose of them properly in accordance with local regulations.