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### Anjfylque ANJ-12KP-48V-WIFI

# Anjfylque ANJ-12KP-48V-WIFI 12000W Hybrid Solar Inverter User Manual

Model: ANJ-12KP-48V-WIFI

Introduction | Safety Instructions | What's in the Box | Setup & Installation | Operation | Maintenance | Troubleshooting | Specifications | Warranty & Support

## 1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Anjfylque ANJ-12KP-48V-WIFI 12000W Hybrid Solar Inverter. Please read this manual thoroughly before installation and operation to ensure proper use and safety. This inverter is designed for off-grid home and business use, converting DC power to 120V/240V split-phase or 120V single-phase AC power.

## 2. Safety Instructions

**Important Safety Information:**

- Installation must be performed by qualified personnel.
- Ensure all power sources are disconnected before installation or maintenance.
- Do not operate the inverter if it is damaged or appears to be malfunctioning.
- Avoid contact with live terminals.
- Ensure proper grounding of the unit.
- Do not expose the inverter to rain, snow, or liquids.
- Maintain adequate ventilation around the inverter to prevent overheating.
- Refer to local electrical codes and regulations for all wiring and installation procedures.

## 3. What's in the Box

Upon unpacking, please verify that all items are present and undamaged:

- The Anjfylque ANJ-12KP-48V-WIFI Inverter Unit x 1
- Parallel Communication Line x 1 (as shown in unboxing video)

- Quality Inspection Label x 1
- Bolts and Copper Noses (for wiring connections)
- Installation Guide x 1
- Warranty Card x 1




Image: Contents of the Anjfylque ANJ-12KP-48V-WIFI inverter package, including the inverter unit, cables, and documentation.

Your browser does not support the video tag.

Video: Unboxing the Anjfylque 12KW Hybrid Solar Inverter, showing the packaging and included components.

## 4. Setup & Installation

### 4.1 Preliminary Preparation

Before beginning installation, ensure you have the following items and tools:

- Two 4P 63A AC circuit breakers

- One 2P 250A DC circuit breaker
- Three 2P 32A DC circuit breakers
- Two copper bars that can withstand 600A
- Five 4AWG wires (yellow, red, green, blue, yellow, and green)
- Eight 250 kcmil battery cables
- Six 10 AWG wires
- Phillips screwdriver, Ratchet turning screwdriver, Handle sleeve (13mm, 10mm)

Inspect the equipment for any damage and ensure all terminals are free of rust.

## 4.2 Line Connection Order

Always follow the strict wiring order: **Battery → Mains → Load → Photovoltaic** for all wiring operations.

## 4.3 Battery Wiring

1. Connect the battery wire to the DC circuit breaker.
2. Ensure the battery circuit breaker is disconnected before proceeding.
3. Connect all positive battery poles to one copper bar and all negative poles to another copper bar. Ensure firm connections to avoid false or missing connections.
4. Check that the insulation layer of all wires is intact to prevent short circuits.
5. Connect the battery wires from the copper bars to the inverter's BAT+ and BAT- terminals. Pay close attention to polarity (Red for positive, Black for negative).




Image: Rear panel of the Anjfylque inverter showing AC IN, AC OUT, USB, WiFi, RS485/CAN, Dry Contact, Parallel Connection, Battery, and PV interfaces.

### 4.4 AC Input Connection (Mains)

When connecting to alternating current, it is necessary to use a combiner box for convenient wiring. The combiner box should have 5 copper bars capable of handling 200A, each with at least 4 holes.

1. Connect the A phase, B phase, C phase, and N line of the mains to the 4P 63A AC circuit breaker.
2. Connect the end of these wires with copper noses to the combiner box.
3. For the first inverter (Master, A phase): Connect L1 of the inverter to phase A, and connect the N line and PE line in sequence.
4. For the second inverter (Slave 1, B phase): Connect L1 of the inverter to phase B, and connect the N line and PE line in sequence.
5. For the third inverter (Slave 2, C phase): Connect L1 of the inverter to phase C, and connect the N line and PE line in sequence.
6. Repeat the process for AC OUT connections, ensuring correct phase alignment.

Your browser does not support the video tag.

Video: Detailed parallel wiring guide for the Anjfylque 12KW split-phase off-grid inverter, demonstrating connections for multiple units.

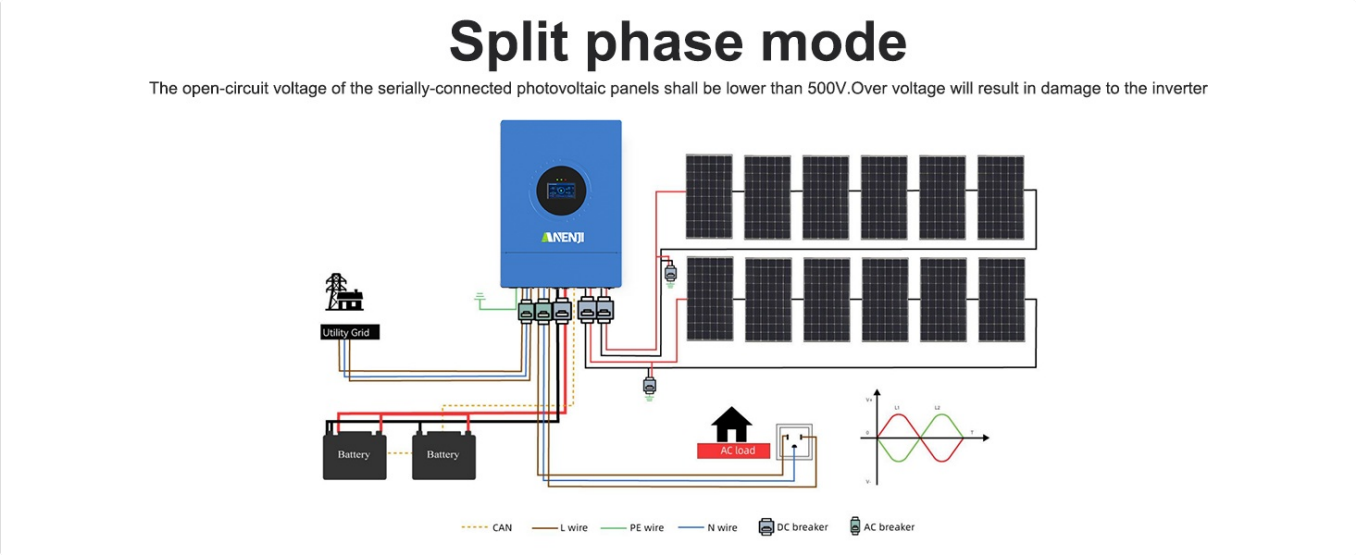



Image: Detailed inverter system configuration showing input voltage range, rated output, battery voltage range, and various connections.

## 5. Operation

### 5.1 Initial Parameter Settings (for Parallel Operation)

After all physical connections are made, proceed with the initial parameter settings on the inverter's capacitive touch screen:

1. Close the battery circuit breaker.
2. Start the system equipment one by one through the rocker switch.
3. Enter the equipment control interface.
4. Set the master-slave role and phase parameter configuration:
    - **Master (A phase):** Set the first inverter as "Three-phase master" and "A Phase".
    - **Slave 1 (B phase):** Set the second inverter as "Slave" and "B Phase".
    - **Slave 2 (C phase):** Set the third inverter as "Slave" and "C Phase".
5. After confirming the parameters are correct, turn off the power of all equipment.
6. Wait for the subsequent startup operation.
7. Connect the parallel communication cables between the inverters.

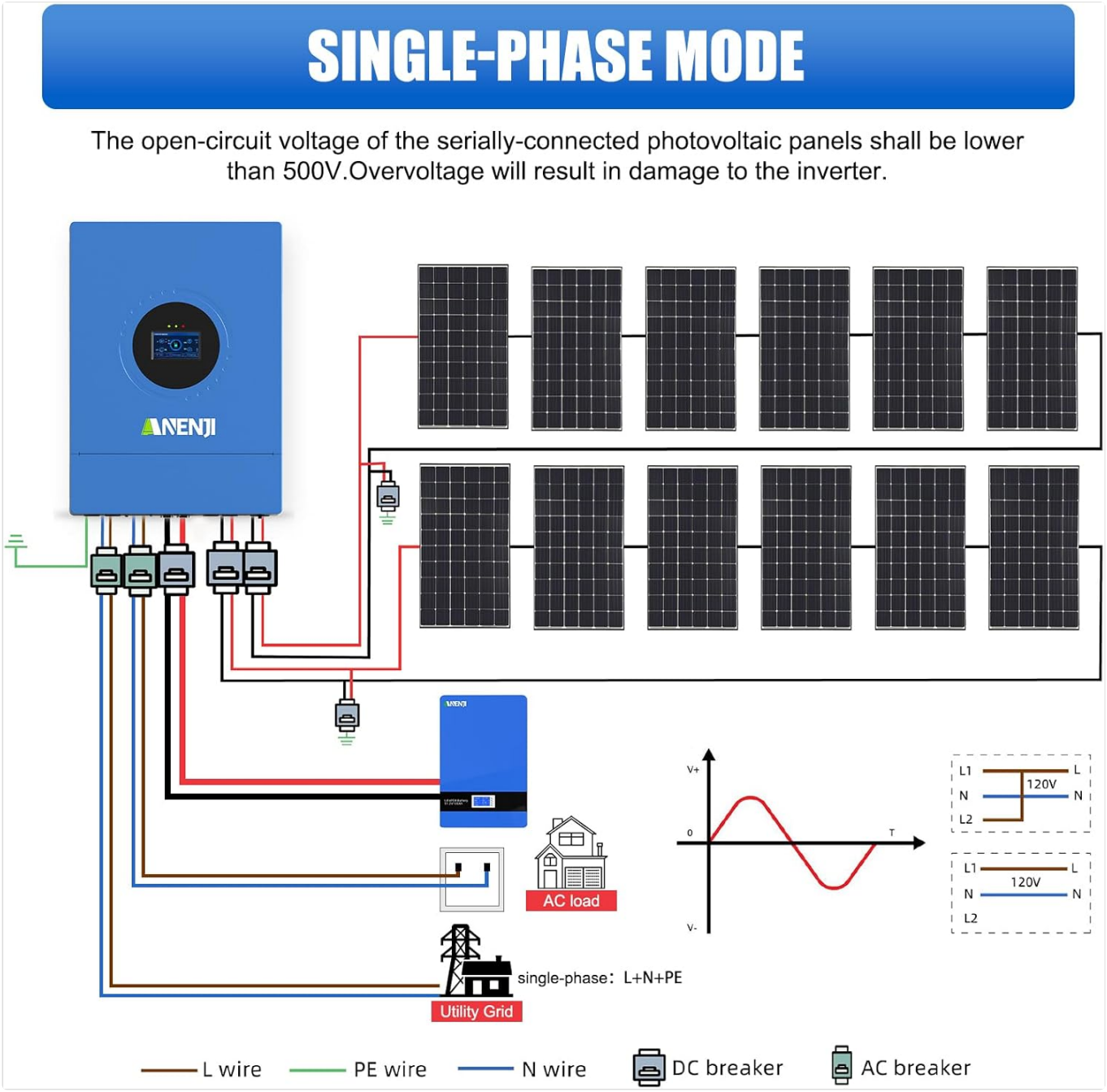



Image: Inverter display showing real-time data on solar production, battery status, grid power, and consumption.

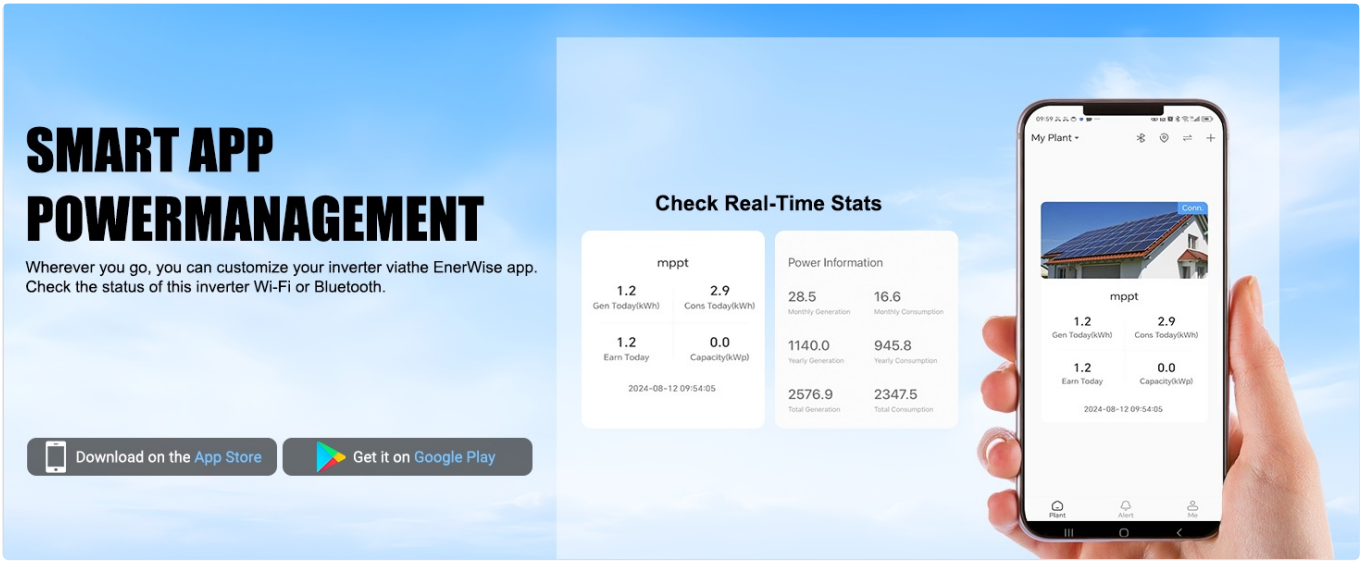



Image: Smart app control interface for the Anjfylque inverter, showing real-time monitoring, power consumption statistics, fault warnings, and data analysis.

### 5.2 System Startup and Operation

To start the system after initial setup and parameter configuration:

1. Close the battery circuit breaker.
2. Close the photovoltaic circuit breaker.
3. Close the mains circuit breaker.
4. Close the load circuit breaker.
5. Start all inverter units simultaneously by turning on their rocker switches.

Ensure that the system is put into operation smoothly. Monitor the display for any fault messages.

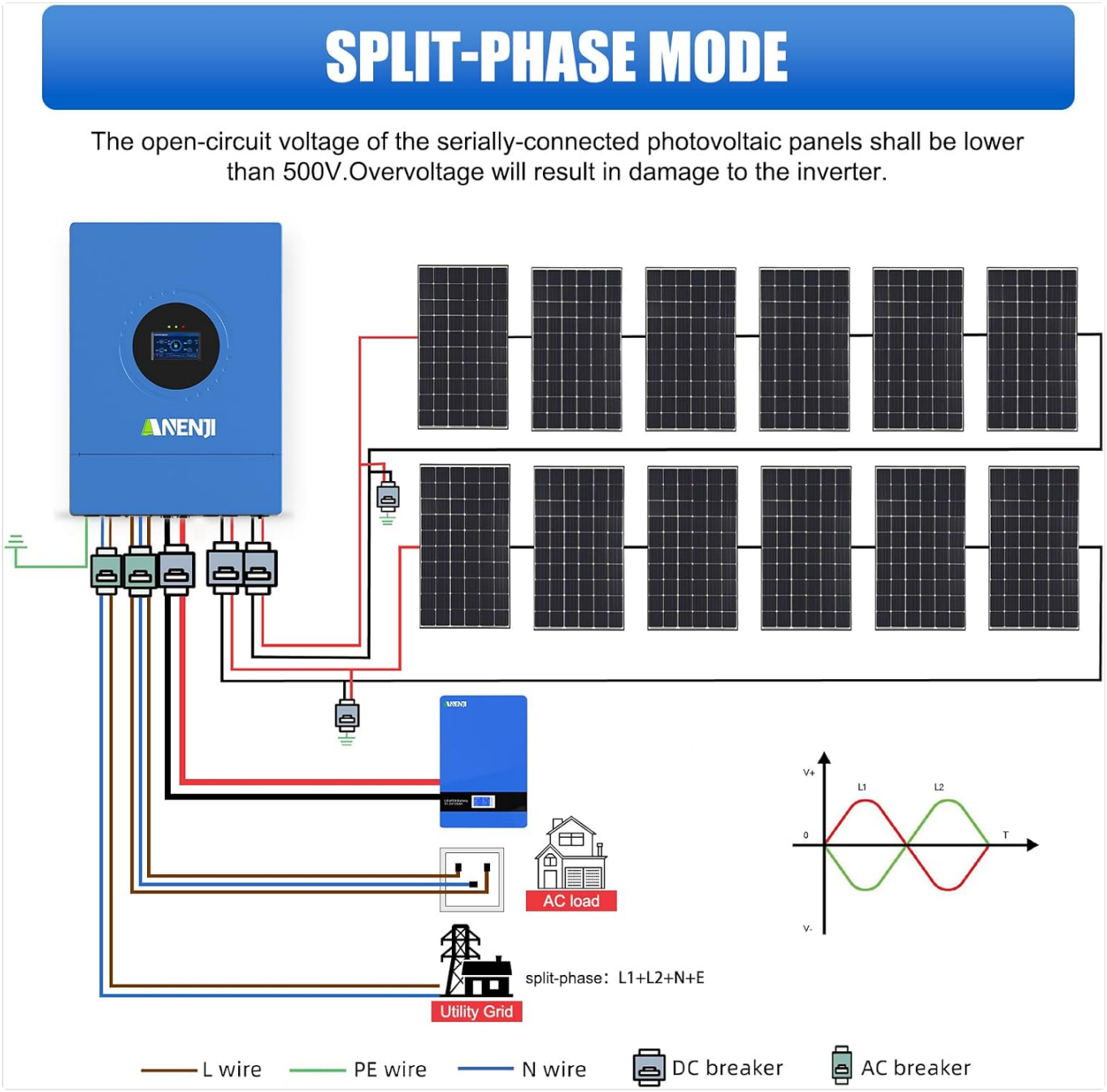



Image: Multiple Anjfylque inverters connected in parallel, demonstrating expanded power capacity.

## 6. Maintenance

Regular maintenance ensures optimal performance and longevity of your inverter:

- **Cleaning:** Periodically clean the inverter's exterior and ventilation openings to prevent dust buildup. Use a dry, soft cloth. Do not use liquid cleaners.
- **Connections:** Annually check all electrical connections for tightness and signs of corrosion. Tighten any loose connections.
- **Ventilation:** Ensure the inverter's cooling system is unobstructed. The intelligent cooling system only activates when needed, ensuring efficient cooling with minimal disturbance.
- **Battery Health:** Monitor battery voltage and charge levels regularly. Refer to your battery manufacturer's guidelines for specific maintenance.
- **Firmware Updates:** Check the manufacturer's website or mobile app for any available firmware updates to ensure optimal performance and security.

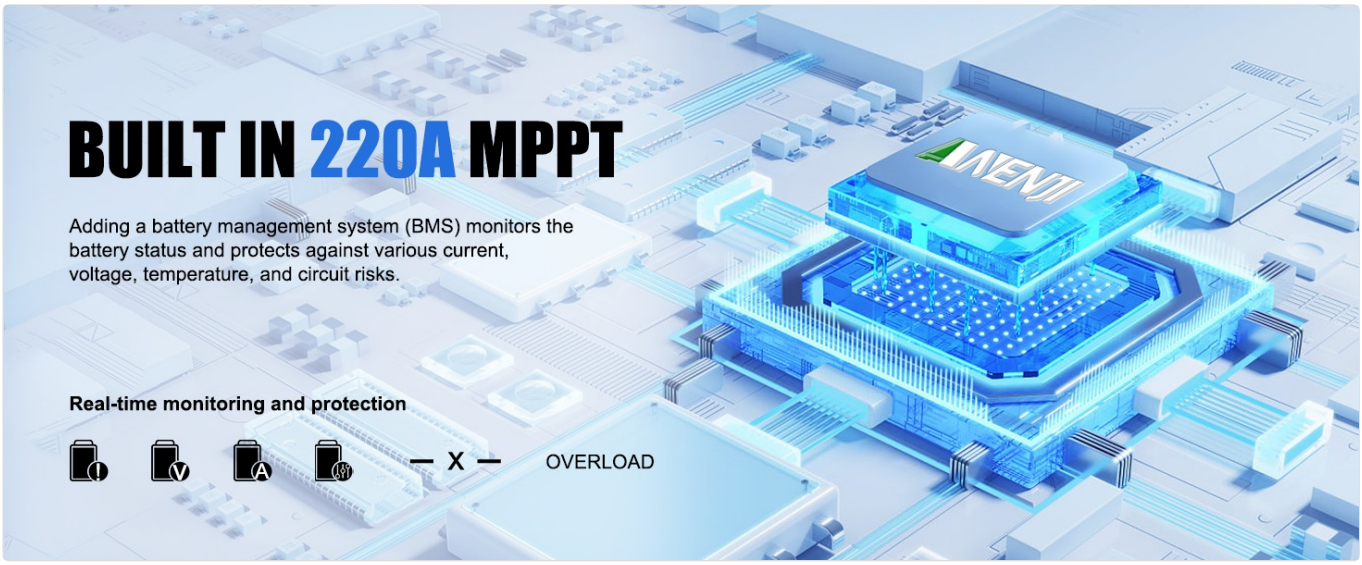



Image: Anjfylque inverter highlighting its low-noise operation and intelligent cooling system, designed for indoor comfort.

## 7. Troubleshooting

This section provides guidance for common issues. For complex problems, contact Anjfylque customer support.

| Problem | Possible Cause | Solution |
|---|---|---|
| Inverter not turning on | No battery power, loose connections, faulty switch. | Check battery voltage, ensure all connections are secure, verify rocker switch position. |
| "Parallel mode setting error" on display | Incorrect master/slave configuration or phase settings. | Re-enter system settings and verify master/slave and phase assignments as per Section 5.1. |
| Low power output | Insufficient PV input, battery degradation, overloaded system. | Check PV array performance, inspect battery health, reduce load or add more inverters/batteries. |
| Overheating | Blocked ventilation, excessive ambient temperature, overloaded. | Clear obstructions from vents, ensure proper airflow, reduce load. |

## 8. Specifications

| Feature | Detail |
|---|---|

| Feature | Detail |
|---|---|
| Model | ANJ-12KP-48V-WIFI |
| Rated Power | 12000W |
| Output Voltage | 120V/240V Split-Phase or 120V Single-Phase |
| MPPT Charge Controllers | Dual 80A MPPTs |
| Max PV Array Power | 18,000W (9,000W + 9,000W) |
| MPPT Voltage Range | 125–425V DC |
| Max Solar Charging Current | 220A |
| Max AC Charging Current | 140A |
| Parallel Support | Up to 6 units |
| Battery Compatibility | Lithium-ion, Lead-acid, User-customized (BMS communication) |
| Communication Interfaces | Bluetooth, Wi-Fi, RS485/CAN |
| Protection Features | PV overvoltage, battery overcurrent/undervoltage, AC short-circuit, overtemperature, anti-reverse flow |
| Enclosure Rating | IP54 |
| Product Dimensions | 12 x 13 x 4.5 inches |
| Item Weight | 33 pounds |

## 9. Warranty & Support

The Anjfylque ANJ-12KP-48V-WIFI Hybrid Solar Inverter comes with a**three-year warranty** from the date of purchase. Please retain your proof of purchase and the warranty card included in the package.
For technical support, troubleshooting assistance, or warranty claims, please contact Anjfylque customer service through the contact information provided on your warranty card or the official Anjfylque website.
**Online Resources:**

- Mobile App: Supports remote monitoring and control via mobile app and cloud platform. Search for "EnerWise" app on your app store.
- Official Website: Visit the Anjfylque website for FAQs, updated manuals, and support.

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**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

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