NOQQ
ENERGY

Photovoltaic DC/AC Split System Air Conditioner

Operating Manual

Table of contents

Included in the set

Quantity	Name
1	Indoor unit
1	Indoor unit mounting plate
1	Remote
2	Remote's AAA batteries
1	Three-meter connecting cord
1	Outdoor unit
1	Three-meter connecting pipe
1	Three-meter connecting wire
1	Weather protection wrapping tape
1	1.5-meter drainpipe with a 15mm diameter
1	Wall sleeve
1	Sealant putty
1	User manual
1	Installation manual
1	Outdoor unit MC4 connector set

Safety Precautions

Before using the appliance, read these "PRECAUTIONS" thoroughly and operate in the correct way.

The instructions in this section all relate to safety; be sure to maintain safe operating conditions.

DANGER

- Do not attempt to install this air conditioner by yourself.
- This unit contains no user-serviceable parts. Always consult authorized service personnel for repairs.
- When moving, consult authorized service personnel for disconnection and installation of the unit.
- Do not become over-exposed to cold air by staying in the direct path of the airflow of the air conditioner for extended periods of time.
- Do not insert fingers or objects into the outlet port or intake grilles.
- Do not start and stop air conditioner operation by disconnecting the power supply cord and so on.
- Take care not to damage the power supply cord.
- In the event of a malfunction (burning smell, etc.), immediately stop operation, turn off the electrical breaker, and consult authorized service personnel.
- In the event of refrigerant leakage, be sure to keep it away from fire or any flammables. (consult an authorized service personnel)
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

WARNING

- Provide occasional ventilation during use.
- Do not direct air flow at fi replaces or heating apparatus.
- Do not climb on, or place objects on, the air conditioner
- Do not hang objects from the indoor unit.
- Do not set flower vases or water containers on top of air conditioners.
- Do not expose the air conditioner directly to water.
- Do not operate the air conditioner with wet hands.
- Do not pull the power supply cord.

- Turn off the power source when not using the unit for extended periods.
- Always turn off the electrical breaker whenever cleaning the air conditioner or changing the air filter.
- Do not pour water or cleaning solvent on the unit directly or wash the unit with them.
- Connection valves become hot during Heating; handle with care.
- When restarting after a long period of disuse in the winter, turn the power switch on at least 12 hours before starting the unit.
- Check the condition of the installation stand for damage.
- Do not place animals or plants in the direct path of the air flow.
- Do not drink the water drained from the air conditioner.
- Do not use it in applications involving the storage of foods, plants or animals, precision equipment, or art works.
- Do not apply any heavy pressure to the radiator fins.
- Operate only with air filters installed.
- Do not block or cover the intake grille and outlet port.
- Ensure that all electronic equipment is at least one meter away from either the indoor or outdoor units.

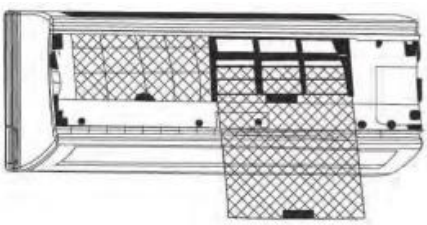
CAUTION

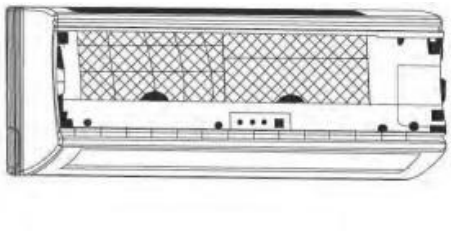
- Avoid installing the air conditioner near a fireplace or other heating apparatus.
- When installing the indoor and outdoor units, take precautions to prevent access by infants.
- Do not use flammable gases near the air conditioner.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- If you see lightning or hear thunder, there might be a lightning strike. To prevent electric shock hazard, turn off the air conditioner by using the remote controller, and do not touch the unit or the power plug during thunderstorm.
- Do not place any other electrical products or household belongings under the indoor unit or outdoor unit. Dripping condensation from the unit might get them wet and may cause damage or malfunction of your property.
- Keep clean and tidy around the outdoor unit, and do not place things around it. If it is covered with fallen leaves, there could be infiltration of small animals or insects whose contact with the internal electrical components leads to the product malfunction.
- Do not stand on unstable steps when operating or cleaning the air conditioner. It may overturn and can cause injury.

Maintenance

Indoor unit:

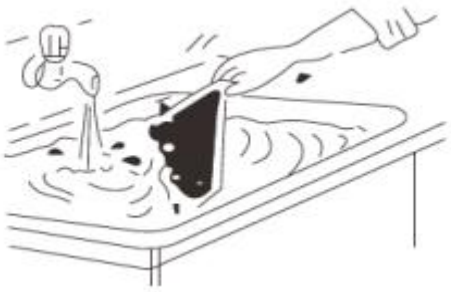
Please power down the air conditioner, open the cover of the indoor unit, and proceed to remove the air filters.





Vacuum and clean the air filter using warm soapy water. Ensure the water temperature is below 40 degrees Celsius to prevent any deformation of the air filter.

Allow the filter to air dry, avoiding direct sunlight to prevent deformation. Once dry, reinstall the filter. Clean the outer shell using a soft cloth and a gentle cleaning solution. It's advisable to test the solution on a small area beforehand. Avoid using volatile solvents like acetone or paint thinner.



Outdoor unit:

Ensure that there are no obstructions, objects, or vegetation obstructing the airflow around or near the outdoor unit.

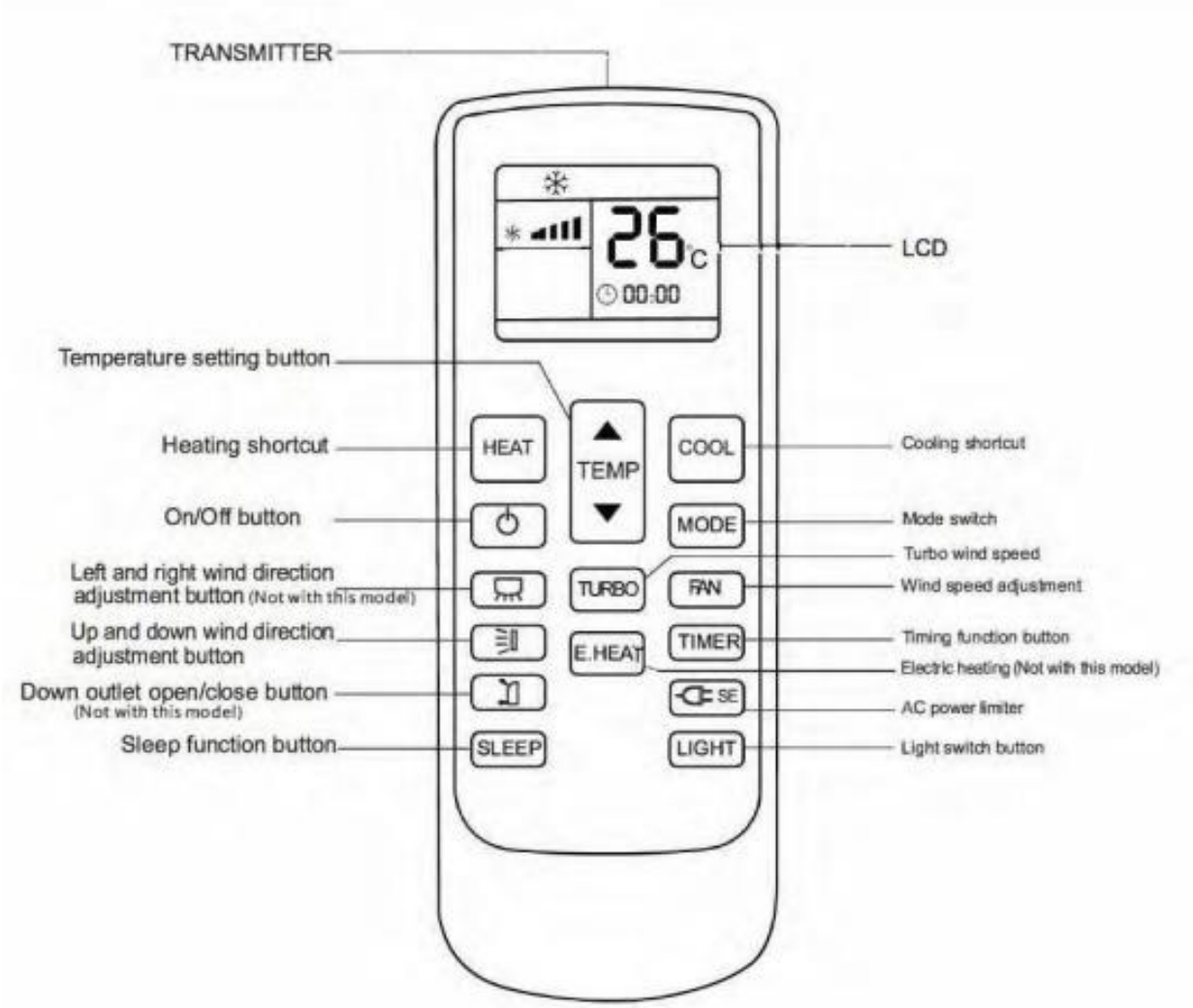
Inspect the overall condition of the outdoor unit.

Inspect the fan for any foreign objects.

Examine the fins for any signs of deformation.

Inspect the piping insulation to ensure it is secure and undamaged. Replace any insulation that shows signs of damage or wear.

Operations



The unit can be controlled through two primary modes:

1. Infrared Remote: This mode allows basic control of the unit.

2. Phone App: The phone app offers enhanced functionality, allowing you to not only control the unit but also monitor electricity usage in both AC and DC modes by hour, day, month, and year.

Functions of the Remote

● " ⏻ " button	Press the " ⏻ " button to switch the air conditioner
● Mode selection	Press the "Mode" button and select the "Auto/Cooling/ Dehumidifying/Air Supply/Heating" mode.
● Cooling	This button is used to set the air conditioner to enter the cooling mode, and the set temperature is 26˚Crun. 1. When the air conditioner is on or off, just press the button, the air conditioner will enter coolingMode and set the temperature to 26˚C. 2. In the timing on state, press this button to cancel the timing on setting and turn on in advance.Run cooling mode, set temperature to 26˚C. 3. In sleep state, press this button to run the cooling mode, set the temperature to 26˚C.
● Heating	This button is used to set the air conditioner into heating mode, and set the temperature to 24˚Crun. 1. When it is turned on or off, as long as you press this button, the air conditioner will enter the heating modeAnd the set temperature is 24˚C for operation. 2. In the timing on state, press this button to cancel the timing on setting and turn on in advance.Run heating mode, set temperature to 24˚C 3. In sleep state, press this key to run heating mode, and set temperature to 24˚C
● Temperature adjustment	In cooling, heating, and dehumidification modes, press the " ▲ "," ▼ " keys to adjust the temperature degree, range 16-32˚C Note: The temperature is not adjustable in the air supply mode.
● Wind speed adjustment	Press the "Wind Speed" button to select the wind speed of "Breeze/ Low Wind/Mid Low Wind/Stroke/High Wind/Auto". Note: There is no automatic wind speed in air supply mode.
● One-click powersaving	When connected to the mains, press the "ECO SE " button, the one-key power saving logo of the internal unit will turn green, and enterPower saving mode.

Pairing the App

1. Locate the QR code on the side of the indoor unit, which you can scan to download the dedicated app.

2. After downloading the app, register your phone.

3. **To enable Wi-Fi connectivity, follow these steps:** Turn on the Solar air conditioner, then use the remote control to press the "LIGHT" button at least 8 times within a 10-second window. You will hear a confirmation sound ("Di") when the Wi-Fi indicator starts flashing.

4. Activate Bluetooth on your phone and connect it to your home Wi-Fi network.

5. Launch the app. It should automatically detect the Solar air conditioner. Confirm the device, enter your home Wi-Fi password, and initiate the connection.

6. Now, you can use the app to control your air conditioner from anywhere in the world via Wi-Fi. You can also monitor power-saving data and view power consumption data by the hour, day, month, or year.

Troubleshooting and Repairs

For Repair parts and service information contact your unit installer or if the installer can't be reached, contact **info@noqq.ee.**

In Event of Power Interruption

- If a power failure occurs, the air conditioner will automatically resume operation in the last selected mode once power is restored.

- If a power failure happens during TIMER operation, the timer will reset, and the unit will start (or stop) operating based on the new timer settings.

Notices

- While using the heating mode, the outdoor unit may periodically initiate the defrost operation briefly. If the user selects heating mode during the defrosting operation, the defrosting process will continue, and the heating operation will start after defrosting is completed. This means that there may be a delay before warm air is produced.

- While using the heating mode, the top of the indoor unit may feel warm. This is normal because coolant continues to circulate through the indoor unit even when it's not actively running, and it's not a malfunction.

Caution: Disassembling the units may pose an electric shock hazard. This unit is powered by multiple sources, so ensure all power supplies are turned off, and disconnect energy storage devices before proceeding.

Possible Causes

Issue	Possible Causes
Unit does not turn on when pressing the on off button	The Unit has a 3-minute protection feature that prevents the unit from overloading. The unit will not restart within three minutes of being turned off.
The unit changes from COOL/HEAT mode to FAN mode	The unit may change its setting to prevent frost from forming on the unit. Once the temperature increases, the unit will start operating in the previously selected mode again.
	The set temperature has been reached, at which point the unit turns off the compressor. The unit will continue operating when the temperature fluctuates again
The indoor unit emits white mist	In humid regions, a large temperature difference between the room's air and the conditioned air can cause white mist.
Both the indoor and outdoor units emit white mist	When the unit restarts in HEAT mode after defrosting, white mist may be emitted due to moisture generated from the defrosting process.
The indoor unit makes noises	A rushing air sound may occur when the louver resets its position.
	A squeaking sound may occur after running the unit in HEAT mode due to expansion and contraction of the unit's plastic parts.
Both the indoor unit and outdoor unit make noises	Low hissing sound during operation: This is normal and is caused by refrigerant gas flowing through both indoor and outdoor units.
	Low hissing sound when the system starts, has just stopped running, or is defrosting: This noise is normal and is caused by the refrigerant gas stopping or changing direction.
	Squeaking sound: Normal expansion and contraction of plastic and metal parts caused by temperature changes during operation can cause squeaking noises.
The outdoor unit makes noises	The unit will make different sounds based on its current operating mode.
Dust is emitted from either the indoor or outdoor unit	The unit may accumulate dust during extended periods of non-use, which will be emitted when the unit is turned on. This can be mitigated by covering the unit during long periods of inactivity.
The unit emits a bad odour	The unit may absorb odours from the environment (such as furniture, cooking, cigarettes, etc.) which will be emitted during operations.
	The unit's filters have become mouldy and should be cleaned.
The fan of the outdoor unit does not operate	During operation, the fan speed is controlled to optimize product operation.
Operation is erratic, unpredictable, or unit is unresponsive	Interference from cell phone towers and remote boosters may cause the unit to malfunction. In this case, try the following: • Disconnect the power, then reconnect. • Press ON/OFF button on remote control to restart operation.

Problem	Possible Causes	Solutions
Poor Cooling Performance	Temperature setting may be higher than ambient room temperature	Lower the temperature setting
	The heat exchanger on the indoor or outdoor unit is dirty	Clean the affected heat exchanger
	The air filter is dirty	Remove the filter and clean it according to instructions
	The air inlet or outlet of either unit is blocked	Turn the unit off, remove the obstruction and turn it back on
	Doors and windows are open	Make sure that all doors and windows are closed while operating the unit
	Excessive heat is generated by sunlight	Close windows and curtains during periods of high heat or bright sunshine
	Too many sources of heat in the room (people, computers, electronics, etc.)	Reduce amount of heat sources
	SLEEP function is activated	SLEEP function can lower product performance by reducing operating frequency. Turn off SLEEP function.
	Solar power is not enough. grid power is off, air conditioner runs only on solar panels.	Turn on the grid power.
The unit is not working	Both solar and grid power is off	Turn on grid and solar power
	Remote control batteries are dead	Replace batteries
	Timer is activated	Turn timer off
Poor heating performance	The outdoor temperature is lower than 7°C (44.5°F)	Use auxiliary heating device
	Cold air is entering through doors and windows	Make sure that all doors and windows are closed during use
Error code appears in the window display of indoor unit: • E0, E1, E2... • P1, P2, P3... • F1, F2, F3...	The unit may stop operation or continue to run safely. If the indicator light continues to display an error code, wait for about 10 minutes. The problem may resolve itself. If not, disconnect both solar and grid power, then connect it again 2 minutes later. Turn the unit on. If the problem persists, turn off the unit and contact an authorized service centre	

Error Code List

Description	CODE	Remark
Indoor data wrong	01	
Indoor and Outdoor unit Communication wrong	03	
Indoor Keys stuck	04	
Outdoor data wrong	05	
Indoor fan motor wrong	06	
Indoor air temperature sensor wrong	31	
Indoor evaporator temperature sensor wrong	32	
Outdoor air temperature sensor wrong	35	
Outdoor condenser temperature sensor wrong	36	
Air outlet temperature sensor wrong	37	
Indoor fan motor lost speed	51	
Compressor feedback wrong	55	
Outdoor fan motor wrong	58	
High voltage protection	72	
Current input limitation	73	
Compressor high temperature protection	75	
Low Voltage protection	76	
Demagnetization protection control failure	79	
PFC over current	81	
Total Power protection	82	
AD Abnormal detection	83	
Unstable current	84	
Compressor setting data wrong	85	
IPM_FO Edge fault	86	
IPM_FO Level fault	87	
IPM over temperature	91	
Compressor lack of phase	92	
Compressor lost speed	93	
IPM over voltage	94	
IPM Over current	95	
IPM current shortage	96	

LO：Compressor oil return fail（DC solar power off）。

LP：Low power protection（DC solar power off）。

AC/DC Booster Error Code:

LED Flash Times	Error Description
1	Pv input voltage is too high
2	Pv input voltage is too low
3	Output voltage is too high
4	Output voltage is too low
5	DC voltage is too high
6	DC voltage is too low
7	Leakage Protection
8	Overcurrent protection