

Instructions for using the control panel

Key functions



Function keys	illustrate
On/Off button	Press the power on button to default to automatic mode. Default 26 degrees, fan default 4 gears
mode	Cyclic switching automatic, super strong, standard, energy-saving, air supply
^	Press the button to enter the wind speed setting interface ^ : Raise wind speed, ∨ : Reduce wind speed
∨	Press the button to enter the temperature setting interface. ^ : elevated temperature, ∨ : Reduce temperature
	Power display symbol: (21~22V, 1 grid lit), (22~23V, 2 grid lit), (23~24V, 3 grid lit), > 24V, 4 grid lit)
	Fan icon: corresponds to the wind speed of fan gears 1 to 6. Illuminate the 1-grid fan icon to indicate 1st gear. By analogy

	出风: Display air outlet temperature
	设定: Display set temperature
	Compressor gear symbols: constant frequency mode: super mode 6 grids bright, standard mode 4 grids bright, sleep mode 2 grids bright; The frequency conversion mode corresponds to the compressor gear
	Mode A/C: Variable frequency mode lights up, fixed frequency mode goes out
	Set mode symbol: Illuminates when setting voltage protection, temperature, wind speed, etc. Normal state does not light up

Wind speed: maximum 6 gears, minimum 1 gear

The maximum temperature can be set to 32 °C, and the minimum can be set to 16 °C

Protection voltage setting

Press the [^] and [∨] keys simultaneously, [^] Raise the voltage, [∨] Lower the voltage

24V air conditioning, low voltage protection 19V~24V adjustable

12V air conditioning, low voltage protection 9V~12V adjustable

Instructions for using the remote control

In shutdown state

1. Press the "On/Off" button to turn on the air conditioner
2. Press the "Super" button, the air conditioner starts, the default temperature is 16°C, the wind speed is 6
3. Press the "Cooling" button to turn on the air conditioner, with a default temperature of 26 °C and a wind speed of 4 gears
4. Press the 'Sleep' button to turn on the air conditioner, with a default temperature of 28 °C and a wind speed of 3 gears
5. Press the "Ventilation" button to turn on the air conditioner. The default wind speed is 3 gears, the fan is working, and the compressor is not working.

In the startup state

1. Temperature+button, increase temperature
 2. Press the 'Temperature -' button to lower the temperature
 3. Press the "Wind Speed+" button to increase the wind speed
 4. Press the "Wind Speed -" button to lower the wind speed
 5. Press the "On/Off" button to turn off the air conditioner and stop the compressor.
 6. Press the "Lighting" button to turn on the lighting.
 7. Press the "Sweep" button to turn on the sweeping or adjust the blowing angle.
 8. Press the "Screen Display" button to turn off the display light, and any key can turn it on.
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Fault code description

Fault code	Fault description	solution
E01	Battery voltage below undervoltage protection value or overvoltage protection	1. Check the battery level.
		2. The positive and negative poles of the power cord must be connected to the battery.
		3. Whether the power cord is plugged in.
		4. Check if the voltage is too high or connected to the wrong generator
E02	The evaporation fan is open or short	1. The evaporation motor plug is loose or comes off.
		2. The switch controller is damaged.
		3. The plug pin is ejected.
E03	Compressor start failed	1. The compressor phase screws are loose.
		2. Compressor controller is bad.
		3. The compressor is stuck
E05	The compressor is overheating	1. The system lacks refrigerant.
		2. Dust on the surface of the condenser does not dissipate heat.
		3. The condensing motor speed is not enough.
		4. When installed, the air inlet and outlet space is small, and the condenser does not dissipate heat.
		5. Compressor controller failure.
E06	The condensing fan is open	1. The fan plug is loose and the wiring is broken.
		2. The plug insert pin ejection does not touch.
		3. The compressor controller is damaged.
E07	The condensing fan is short-circuited	1. The internal or circuit of the condensing motor is energized
		2. Compressor control damage.

E08	Condensing fan No. 1 malfunction or open bus	1. The fan plug is loose and the wiring is broken.
		2. The plug insert pin ejection does not touch.
		3. The brushless fan controller is faulty or the motor is damaged.
		4. The control panel brushless fan signal bus is in poor contact or detached
E09	No. 2 condensing fan failure	1. The fan plug is loose and the wiring is broken.
		2. The plug insert pin ejection does not touch.
		3. The brushless fan controller is faulty or the motor is damaged.
E10	Failure of the inlet air temperature sensor	1. The sensor plug is loose and disconnected.
	The outlet temperature sensor is faulty	2. The plug pins do not touch.

Precautions:

- (1) The air conditioning compressor already contains refrigerant oil, so there is no need to add refrigerant oil.
- (2) Before adding refrigerant, the air conditioning needs to be vacuumed for about 15 minutes.
- (3) The air conditioner does not contain refrigerant and requires the addition of 400-500g/R134a refrigerant.

High and low voltage standard values:

The ambient temperature is 25-30 °C , and the high pressure value should be between 130psi-160psi

The ambient temperature is 30-35 °C , and the high pressure value should be between 145psi-175psi

The ambient temperature is 35-40 °C , and the high pressure value should be between 175psi-218psi

The low pressure value is uniformly between 29-49psi

- (4) The cooling space of the air conditioner is approximately 300 cubic feet.
- (5) The starting current of the air conditioner is 65-75A for a 12V battery, and 35-45A for a 24V battery. **This is a metaphor: for example, 300Ah represents the storage capacity of a battery pack of 300 amperes per hour, while 300A represents a passing current of 300 amperes. So AH represents the capacity of the battery, while A represents the current of the battery, the two are different.**
- (6) To purchase an air conditioner with a voltage of as much as V, it is necessary to use a battery with the same voltage and not connect it incorrectly.