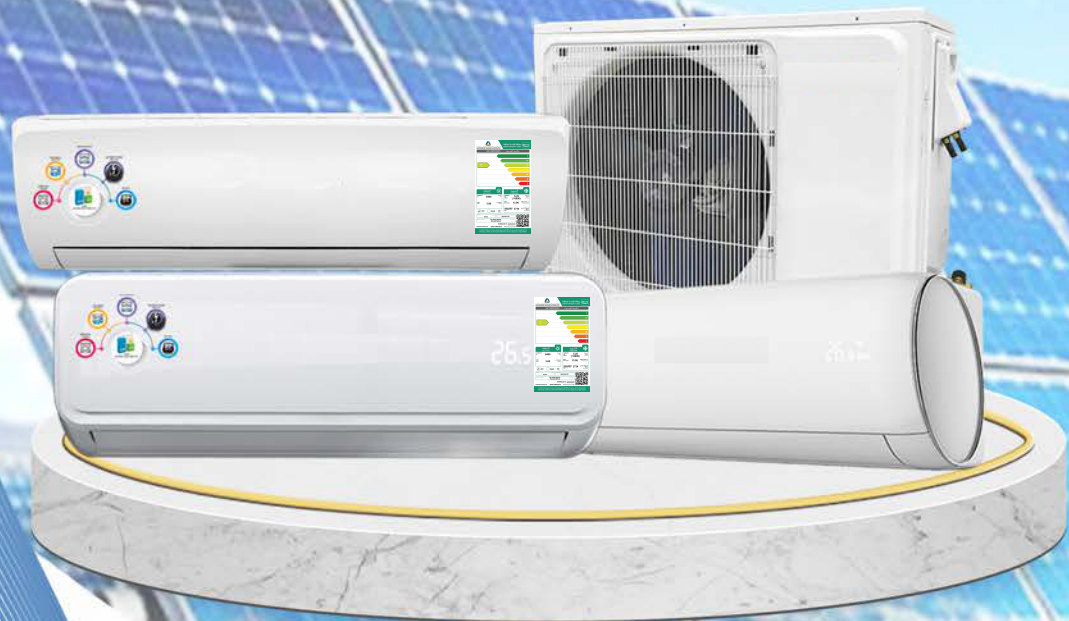


SOLAR AIR CONDITIONER

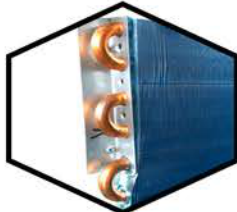


TECHNICAL FEATURES

Technical Features

- 1) full DC variable frequency driver.
- 2) Work normally in environment from -15C~58C.
- 3) Not limited by power supply and climate, apply for any place use. (Suitable for T3 tropical area).
- 4) Full 3D Control, adopting well-known DC compressor, DC indoor outdoor fan motor.
- 5) wide rang direct DC solar power 100V-380V.

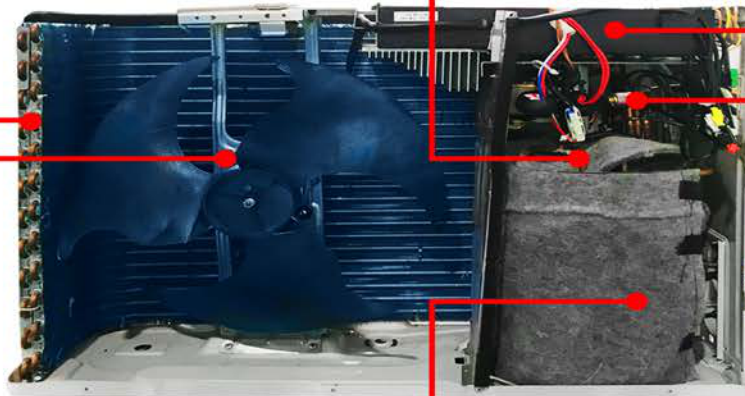
Golden Hydrophilic Fin



Inner Grooved Copper Tubes



PCB Board



DC motor



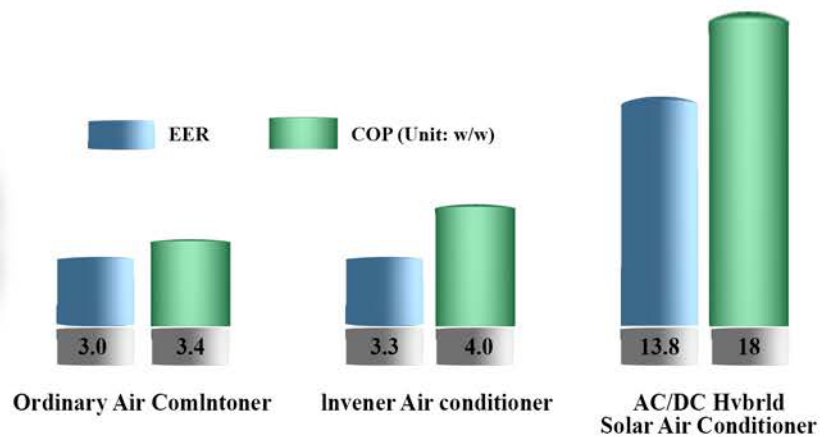
DC Compressor



DC four-way Valves

COMPRESSOR

Compressor



1. High-quality components



Environment friendly refrigerant R410A

GMCC *Well-known brand DC compressor*

Own-development PCB control system

SANHUA *Top brand electronic expansion valve*

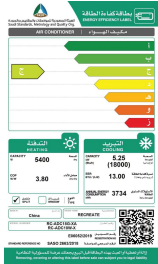
2. Advanced frequency control technology

- ☑ AC/DC power supply.
- ☑ Using solar power priority, solar power utilization rate more than 95%.
- ☑ Wide voltage design 100V~380V.
- ☑ High energy efficiency: Up to SEER 23 EER 13.8.
- ☑ Complaint to all climate condition (T1&T3).
- ☑ Work normally in environment from -15C~58C.

SOLAR INVERTER AIR CONDITIONER

Enjoy Use Solar Air Conditioner Direct with Free Power

Efficiency Energy Save 90~100%



Electricity input 210V-240V
Solar DC input 100V-380V

Wide Rang Voltage AC
Input 210V-240V 50/60HZ
Solar DC input 100V-380V

Wide Rang
Temperature T3

+58°C



-15°C



Office



School



Home



Hotel

Use Air Conditioner during daytime
with no worry. Save power up to
99%

enjoy use air conditioner during daytime
with free power, and in night with very
lower power because air conditioner is
high star save energy

SOLAR INVERTER AIR CONDITIONER



ACDC

>Application >Highlights >Technical Data >

Application

In ACDC solar air conditioner system, the air conditioner is powered by solar energy and the grid power is used as the backup power.

In the daytime, the system draw the power from solar panels as preference input; when the sun is not strong enough to satisfy the needs of the a/c, the grid power will automatically get connected as input.

It's mainly used at places with high electricity rates in order to cut electricity bills.

It's the 4th generation models, designed for low cost, easy installation and a fast payback, requiring no batteries, no inverter, no controller-just plug in solar panels to save 40-100% power in daytime compared with an electric a/c.

Product Highlights

- 100% efficiency of solar power consumption, not a bit of energy waste
- Full DC system, high efficiency, SEER up to 23
- Wide range of AC input: 50/60Hz, 160V-270V
- Wide range of ambient temperature: -15°C~55°C
- No controller/inverter/batteries needed
- Eco-Friendly R410a Refrigerant
- Easy installation, no difference with electric a/c installation
- Intelligent power supply display, real-time update of power input
- Regular solar panels can be used, 3~10pcs can be freely embraced
- Washable Filters
- Digital Wireless Remote



Technical Data

Model	Cooling Capacity Btu/h	Heating Capacity Btu/h	Power Input Cooling W	Power Input Heating W	SEER	EER	Application Area Sqm.	Net Weight indoor unit Kg	Net Weight outdoor unit Kg	Net Size indoor unit mm	Net Size outdoor unit mm
RC-09ADC/FA	9000	9000	660	670	23	13.9	8~15	9	32	850*280*210	860*325*540
RC-12ADC/FA	12000	12000	960	1,028	22	13.7	12~25	10	34	850*290*205	860*325*540
RC-18ADC/FA	18000	18000	1,420	1,375	21	13.5	20~40	13	35	970*315*235	890*320*670
RC-24ADC/FA	24000	24000	1,830	1,820	20	13.2	33~49	16	51	1100*330*235	890*320*670

Motor Driving Technical



- Compressor drive control software with the property
- intellectual property rights, capable to match various type of compressor rapidly
- 180° sine-wave vector frequency control technology
- Low-frequency band smart torque compensation technology, allowing to reduce the compressor vibration to the minimum level
- Active PFC, power factor up to 0.99
- ODU fan, compatible with brushless DC motor and AC motor
- Optional electronic expansion valve or capillary tube for valve
- All-around protection function and self-diagnosis function
- Operating temperature range: -10 +55°C

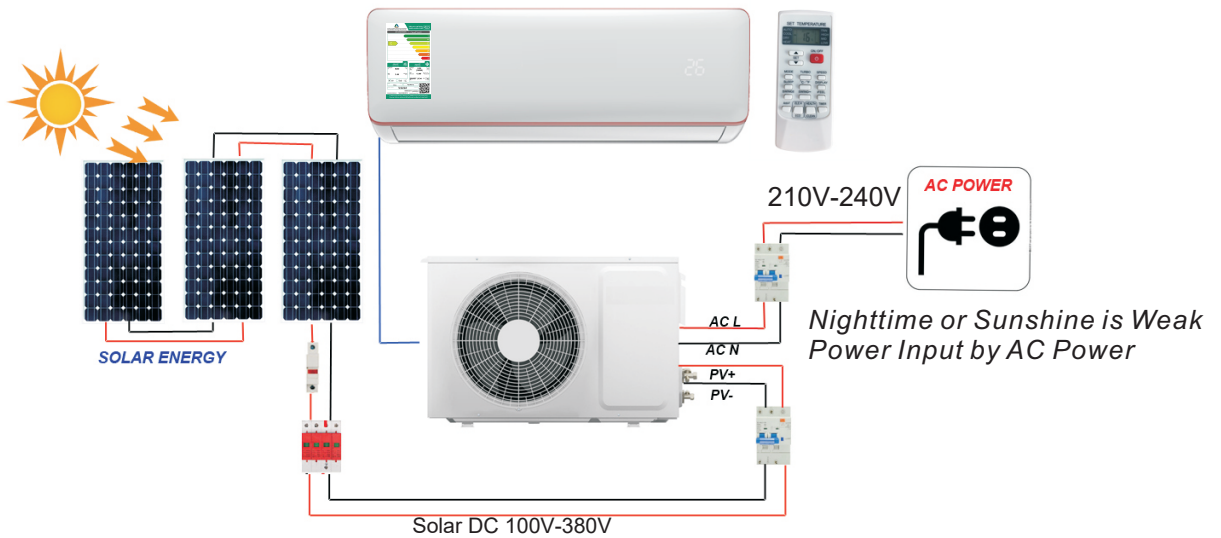
SOLAR INVERTER AIR CONDITIONER



ACDC

>Solar System Components

Daytime When Sunshine is strong
Power Input by Solar Energy



System Component



>ACDC Hybrid Indoor Unit
Capacity heating & cooling 9000Btu~24000Btu available;
Digital display
Low Noise (Hi/Mi/Lo)41/38/32dB



>ACDC Hybrid Outdoor Unit
Capacity heating & cooling 9000Btu~24000Btu available;
Solar Input DC70~380V MAX15A;
AC Input 208~240V 50/60HZ; R410A;
Low Noise 53~60dB



>Solar Panels
Available seperately at additional cost



>DC Motor
DSP Single chip of T1(used in Texas,US);



>DC Air compressor
180 degree pure sine wave vector frequency converting control technology ;
Low-frequency intelligent torque



>Remote Control
Digital wireless remote;



>Lightening Arrester
Available seperately at additional cost



>Fuse Protection
Available seperately at additional cost



>DC Breaker
Available seperately at additional cost



>DC Solar Wires
Available seperately at additional cost

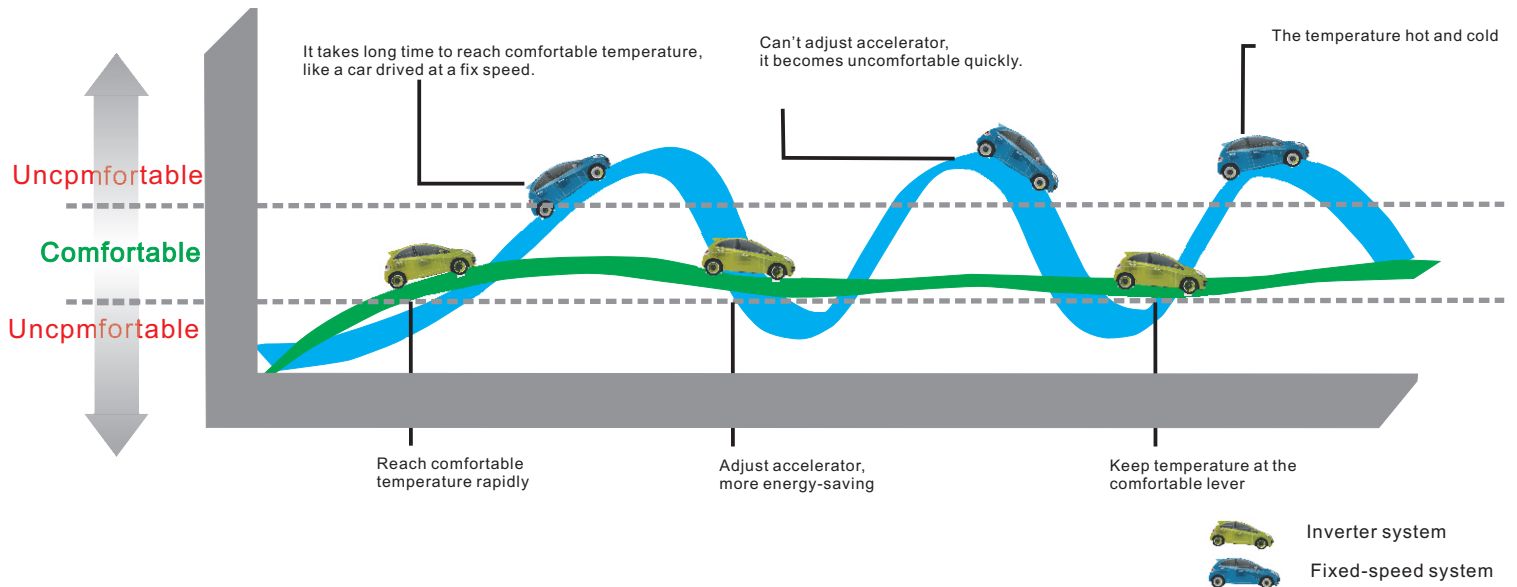
SOLAR INVERTER AIR CONDITIONER



ACDC Type

>Outstanding Features

Inverter Technology: Energy Saving + Comfortable



Other Features



Cost Save

AC & Solar power mixed input, will reduce energy consumption by 97%



Solar Peak Function

When solar panels draw the energy to peak, solar power will completely be used as input, no need AC power input



Solar standard terminal

With Mc4 Solar Standard Wire Terminal, let the system more stable and safety



Quick Installation

With complete installation system, simple and easy to install, just as the general air conditioner