



Solar Inverter Air Conditioner ACDC Hybrid Type





Solar Inverter Air Conditioner **ACDC** Hybrid Type

Solar aircon Include:

A/C outdoor & indoor Unit ;
Solar modules ;
Custom Roof mounting system ;
PV cable ;
Fuse Protection, DC Breaker ;
Lightening Arrester ;

Products discrimination:

Sunpal Recreate Series Hybrid Solar Air Conditioner is engineered from the ground up for use with solar. All electrical components are DC powered including DC Compressor, high-efficiency DC Fan Motors, DC Valves & Solenoids, etc.

The Air Conditioner System uses VRF (Variable Refrigerant Flow) controller and frequency driver in conjunction with multiple sensors and an algorithmic control circuit to raise and lower the unit's capacity in real-time based on conditions as they change.

Hybrid Solar Air Conditioner uses Solar Direct Drive Technology (SDDA), so the A/C Unit can use AC DC power in the same time or independently. The SDDA uses solar energy as the priority power instead of the grid energy to run the air conditioner. In the sunshine day, the Recreate Hybrid Solar Air Conditioner can be operated by 100% solar energy without AC power.

The whole system just contains an A/C Unit and a few PV panels, NO BATTERY, NO INVERTER, NO CONTROLLER. Compare with the regular air conditioner, the investment increases 50%-80%, but the electricity bill will reduce 60-80% yearly.

Products Benefits:

-  Help you to reduce the 40-80% electricity bill.
-  SEER up to 36 with solar, 22 without solar.
-  Enjoy cooling summer without grid in sunshine day
-  Lower investment than off-grid& on-grid solar energy system
-  Increase the value of your home.
-  Reduce your carbon footprint.

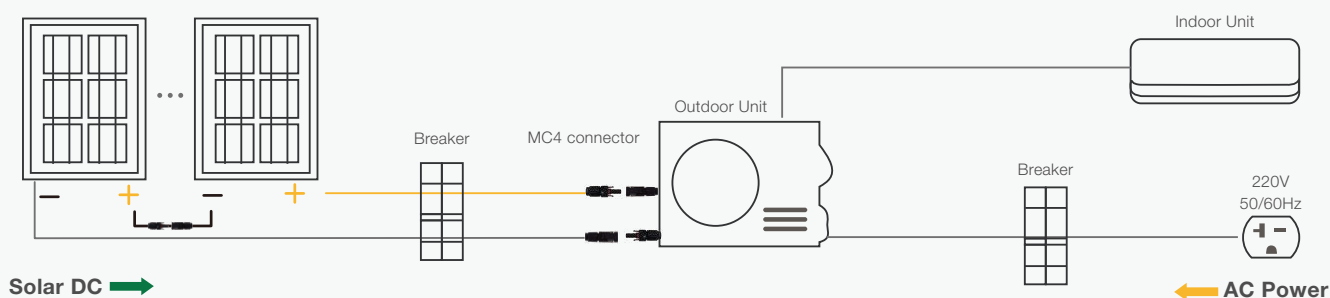
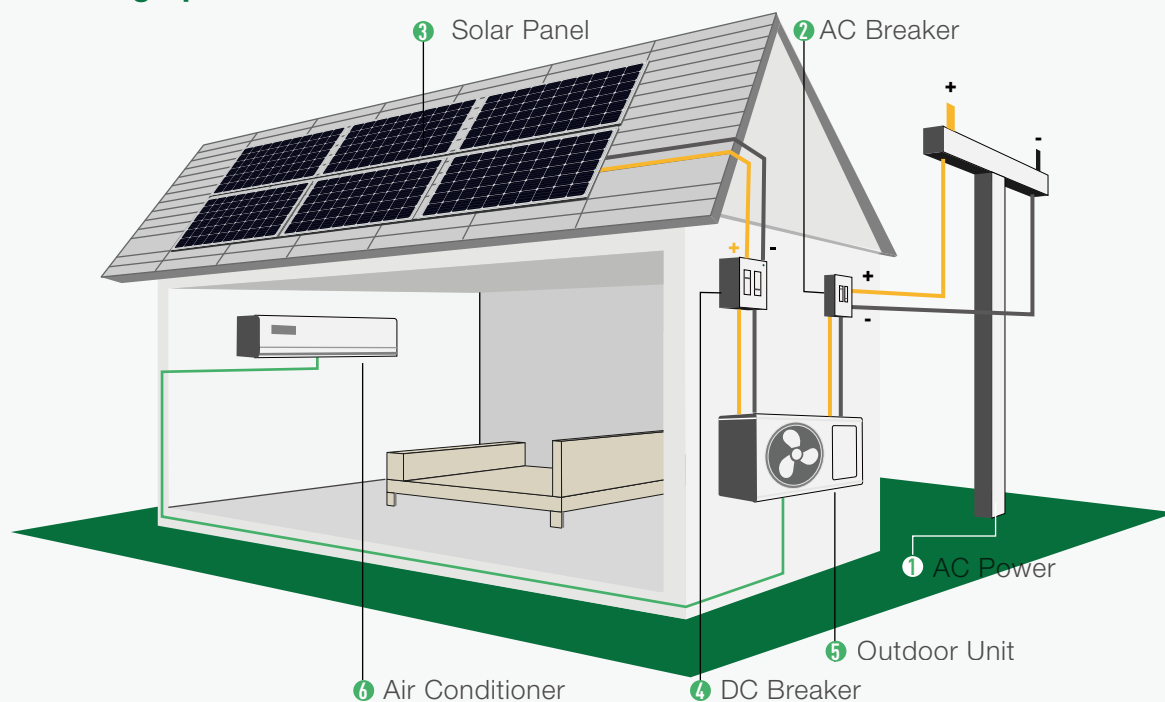
Common Application

-  Home
-  Office and School
-  Remote Telecom Station
-  Desert Location
-  Island Location;
-  Bus Station

Products parameters

Model No.		RC-ADC09GW-XA-R32	RC-ADC12GW-XA-R32	RC-ADC18GW-XA-R32	RC-ADC24GW-XA
Power Supply					
Solar System	V	DC90-380V			
Maximum Solar Charging Current	A	MAX. 15A			
AC Power Connected	V	180-240V(50/60Hz)			
Cooling Capacity					
Capacity	Btu/h	9000	12000	18000	24000
Inverter Capacity Range	Btu/h	2866-9868	3482-13561	3681-18846	4294-25280
Power Input	Kw	0.82	1.06	1.42	1.87
Rated Current (AC)	A	3.82	4.28	5.96	8
SEER	Btu/w	26	25	24	20
Refrigerant		R32			R410A
Heating Capacity					
Capacity	Btu/h	9,000	12,000	17,150	23,800
Inverter Capacity Range	Btu/h	2953-9785	3853~13780	4637~19875	5100~23542
Power Input	Kw	0.84	1.22	1.43	1.82
Rated Current	A	4.3	5.87	6.1	8.08
HSPF	Btu/w	14	13	13	11
COP	Btu/w	15.3	14.6	13.2	12.31
A/C unit configuration					
Dehumidification	pt/h	1.1L/h	1.3L/h	1.9L/h	2.3L/h
Indoor Air Flow - (Hifan)	cfm	660	690	1080	1210
Indoor Noise dB(A) (Hifan)	dB(A)	38	38	42	45
Max Refrigeration Pipe Length	ft/m	15	15	15	15
Max Refrigeration Pipe Rise/Fall	ft/m	5	5	5	5
Max Elevation Difference		15	15	15	15
Design Pressure	psig	600 / 345	600 / 345	600 / 345	550 / 340
Connection	Type	flare	flare	flare	flare
Connection Wiring	AWG	4*18AWG	4*18AWG	4*18AWG	4*18AWG
Compressor		GMCC DC Drive Mode Rolling Rotor Type			
Operation temperature					
Indoor (Cooling/Heating)	°F	60.8 –89.6 / 60.8–89.6	60.8–89.6 / 60.8–89.6	60.8–89.6 / 60.8–89.6	60.8 –89.6 / 60.8– 89.6
Outdoor (Cooling/Herating)	°F	50–125.6 / 5-104	50–125.6 / 5-104	50–125.6 / 5-104	50–125.6 / 5-104
Shipping					
Dimension(W*D*H)	mm	850x190x292	850x190x292	960x215x300	1130*320*245
Packing(W*D*H)	mm	910*265*350	910*265*350	1015x265x360	1195*310*390
Net/Gross Weight	kg	9.2/12	9.2/12	12.5/14.5	15.5/17.5
Dimension(W*D*H)	mm	795×290×555	795×290×555	795×290×555	860×304×733
Packing(W*D*H)	mm	910×400×630	910×400×630	910×400×630	1005×450×820
Net/Gross Weight	kg	31/35	31/35	35/39	51/55
20GP / 40GP / 40HQ Container		84/174/216	84/174/216	78/171/212	54/115/128
CB/CE/GCC/SOAO/ETL Performance Certified					

Connection graph



System Component



ACDC Hybrid Indoor Unit

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



Remote Control

Digital wireless remote;



ACDC Hybrid Outdoor Unit

Solar Input DC70~380V MAX15A;
AC Input 208~240V 50/60HZ; R410A;
Low Noise 53~60dB



Lightening Arrester

PC40-85V DC
Operation Temp:-40~+85°C



Solar Panels

Against Salt mist corrosion/amonia corrosion /fire risk; 10 years Warranty;
DC31.6V 275W



Fuse Protection

RT28N-32X 1P



DC Solar Wires

1*4sqmm black and red;
TUV certified
15mm each other per unit



DC Breaker

DC800V 2P 20



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