



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.

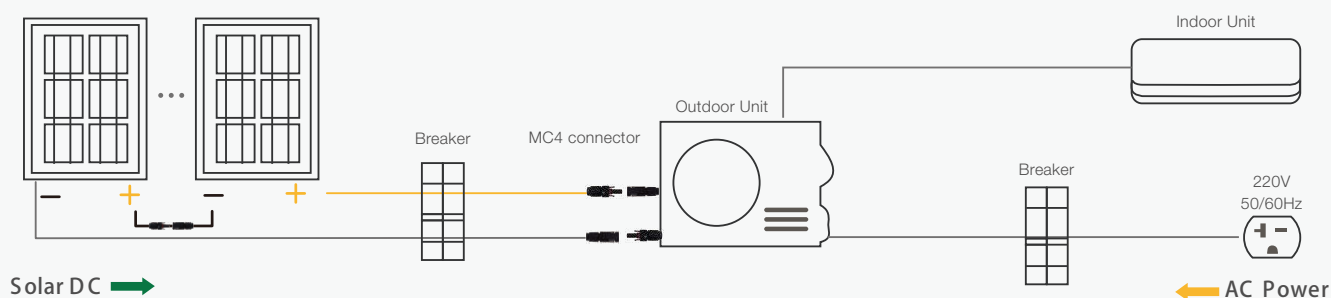
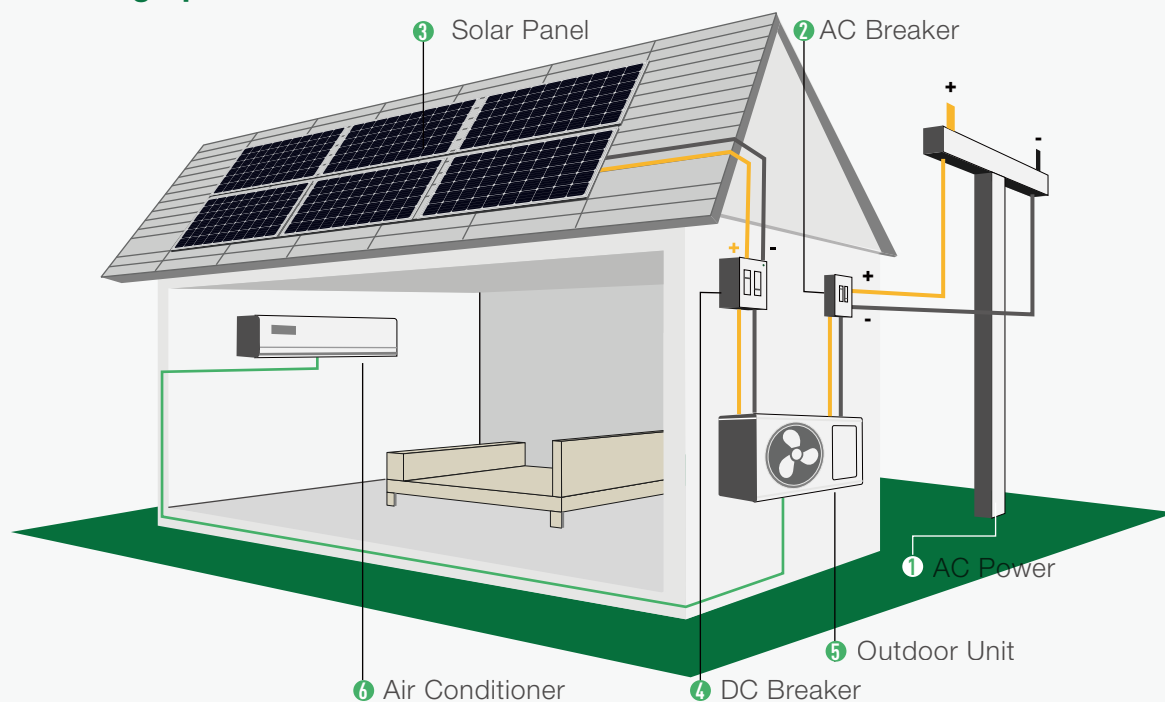
Common Application

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

Products parameters

PRODUCT SPECIFICATION SHEET			RC-ADC09GW-XA-R32	RC-ADC12GW-XA-R32	RC-ADC18GW-XA-R32	RC-ADC24GW-XA-R32	
Power supply source		V/Ph/Hz	220-240V 50Hz/60Hz	220-240V 50Hz/60Hz	220-240V 50Hz/60Hz	220-240V 50Hz/60Hz	
		DC	DC90-380V MAX. 15A	DC90-380V MAX. 15A	DC90-380V MAX. 15A	DC90-380V MAX. 20A	
Rated Capacity	Cooling	W	2500	3500	5000	7000	
	Heating	W	2600	3600	5100	7200	
Rated Power Consumption	Cooling	W	735	1030	1520	2100	
	Heating	W	670	980	1550	2180	
Rated Running Current	Cooling	A	3.2	4.7	6.9	9.2	
	Heating	A	2.9	4.5	7	9.5	
Max.Input Power		W	1450	1870	2860	3800	
Max. Input Current		A	6.6	8.5	13	17.2	
SEER Cooling		WW	SEER6.6	SEER6.6	SEER6.6	SEER6.6	
SCOP Heating		W	SCOP4.6	SCOP4.6	SCOP4.0	SCOP4.0	
Refrigerant		-	R32	R32	R32	R32	
Refrigerant Charged		g	900	900	920	1260	
Air Flow Volume		m3/h	650	650	900	1200	
Noise level (INDOOR)		dB(A)	41	42	45	48	
Noise level(OUTDOOR)		dB(A)	50	50	52	56	
Connect pipe	Liquid tube Diameter × Thickness	mm	Φ6*0.5	Φ6*0.5	Φ6*0.5	Φ6*0.5	
	Liquid tube Diameter × Thickness	mm	Φ9.52*0.6	Φ9.52*0.6	Φ12.7x0.7	Φ15.88x0.9	
Compressor Parameter	Compressor Model			KSN108D34UFZ	KSN108D34UFZ	FTZ-SM151AXBA	KTM240D43UMT
	Drive mode		AC/DC	DC	DC	DC	DC
	type			Rolling Rotor Type	Rolling Rotor Type	Rolling Rotor Type	Rolling Rotor Type
	Brand			GMCC	GMCC	LAMDA	GMCC
	Capacity		W	3405+5%	3405+5%	5780+5%	7740+5%
	Input		W	860+5%	860+5%	1320+5%	2065+5%
	Rated current(RLA)		A	5.8+5%	5.8+5%	6.0+10%	9.4+10%
Dimension	Outdoor	Net Dimension (WxDxH)	mm	795x290x555	795x290x555	795x290x555	860x304x733
		Packing Dimension	mm	910*400*630	910*400*630	910*400*630	1005*450*820
	Indoor	Net Dimension (WxDxH)	mm	895*203*300	895*203*300	1000*240*310	1130*245*320
		Packing Dimension	mm	965*275*370	965*275*370	1075*310*385	1195*310*390
Indoor unit weight(Gross/Net)		Kg	11/9	11/9	14.5/12.5	17.5/15.5	
Outdoor unit weight:(Gross/Net)		Kg	38.5/34.5	38.5/34.5	39/35	55/51	
Loading qty (20/40Q/40HQ)			90/176/194	90/176/194	79/160/180	50/105/120	
Solar Air Conditioner							

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;R32;
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



S u n p a l P o w e r C o . , L t d .

E m a i l : i n f o @ s u n p a l p o w e r . c o m

P h o n e : + 8 6 1 8 0 5 5 1 3 2 0 2 3

