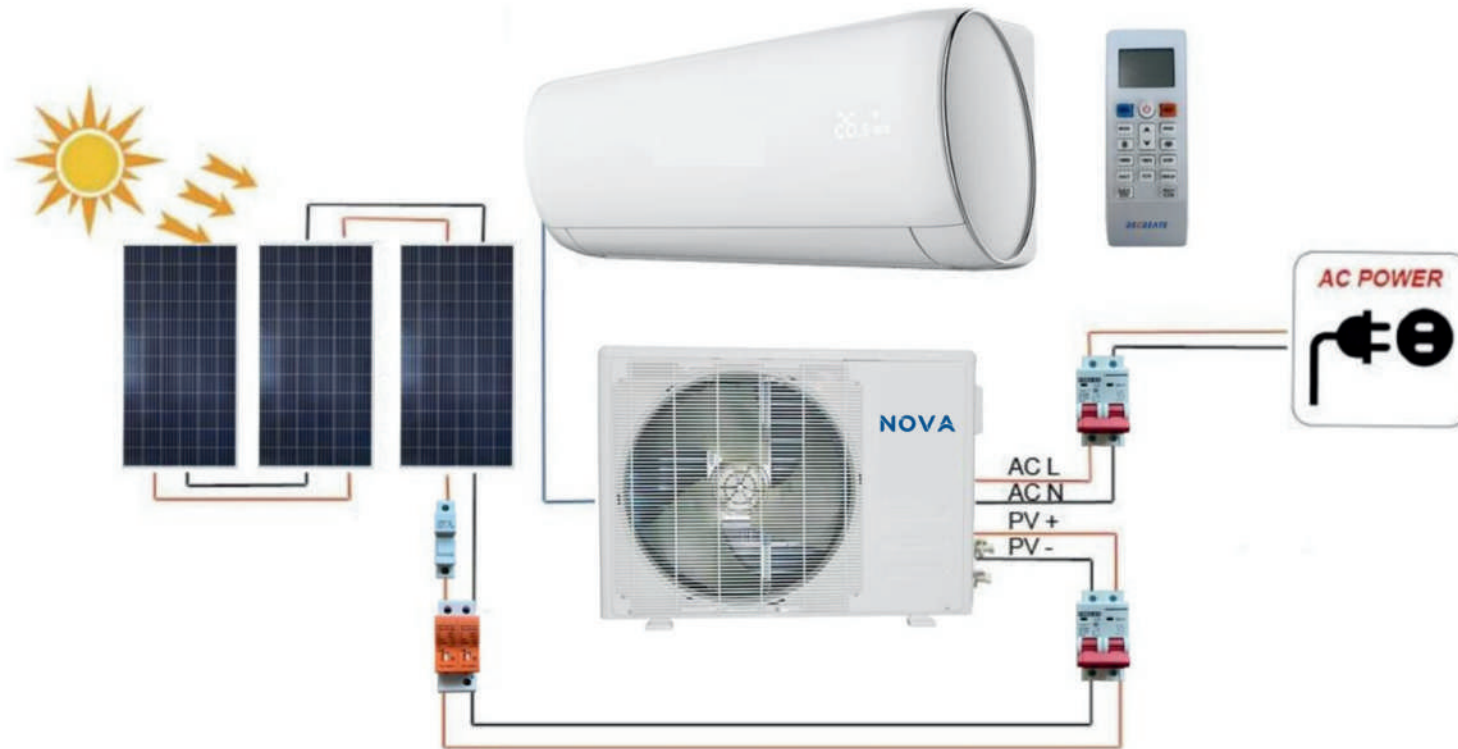


# NOVA



## SOLAR INVERTER AIR CONDITIONER AC/DC HYBRID TYPE

**Solar air conditioner include:**  
A/C Outdoor & Indoor Unit;  
Solar Module;  
Custom Roof Mounting System;  
PV Cable;  
Fuse Protection;  
DC Breaker;  
Lightening Arrester;



## 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/School



Remote Telecom Station



Desert Location



Island Location



Bus Station

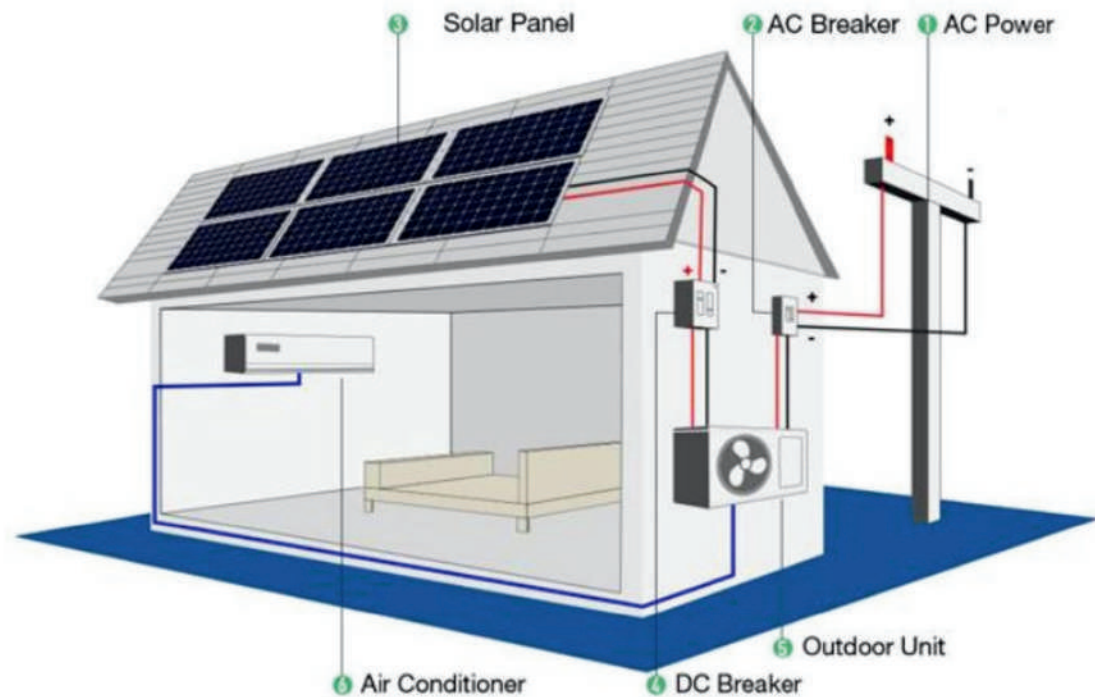
## Hybrid Solar Air Conditioner



Daytime when sunshine is strong  
Power input by Solar Energy.

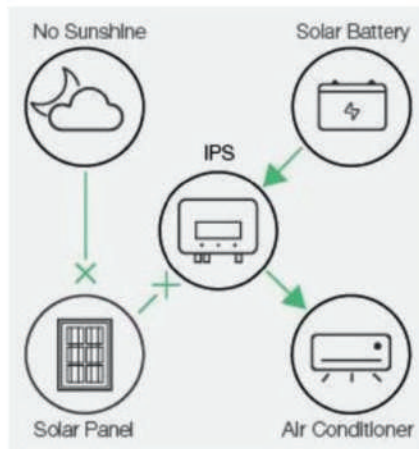


Nighttime or sunshine is weak  
Power input by AC Power.



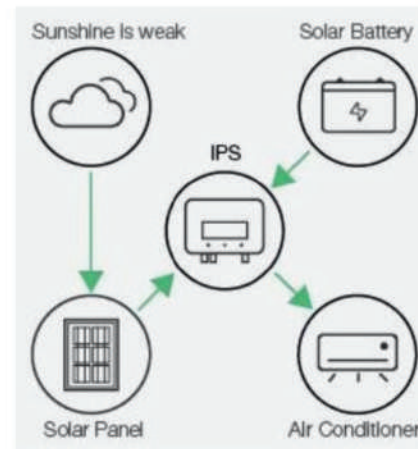
# NOVA

## Model-1. Without Grid Power:



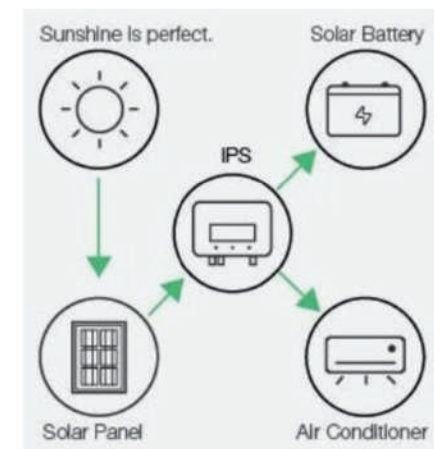
### 1. Battery Power

During the night or when there is no solar energy, the A/C unit will take the power from the battery to run the device.



### 2. Battery & Solar

When the solar energy is weak, the A/C unit will take the solar power as the priority choice, the power from the battery will be a supplement.

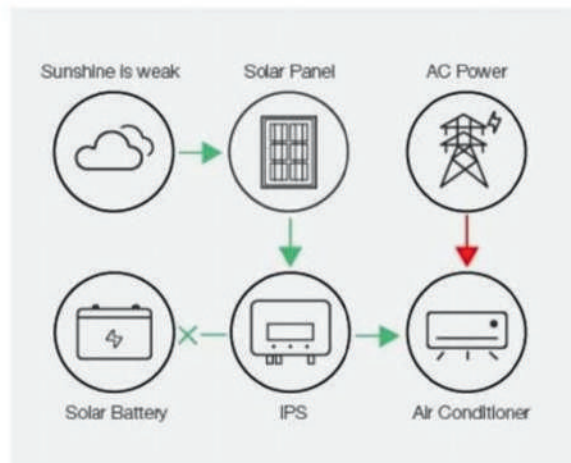
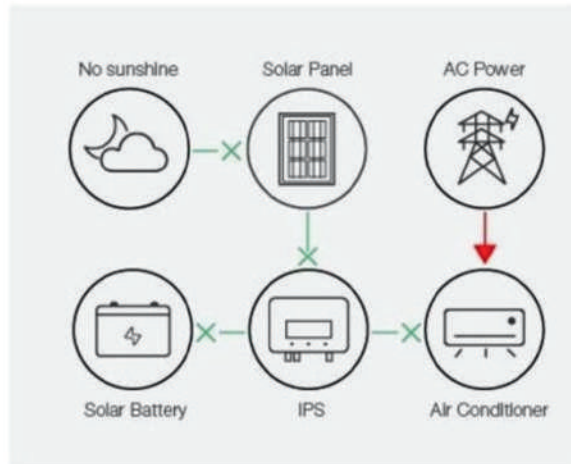


### 3. 100% Solar

When the solar is sufficient, the A/C unit will start and operate by solar energy only. In the same time, the system will charge the battery automatically.

# NOVA

## Model-2. With Grid Power:



### 1. Grid Power

During the night, the A/C unit take the power from the grid power and running with same principle of regular air conditioner, the SEER is over 22, it can saving 20-30% energy compare with the regular A/C unit.

### 2. Grid and solar

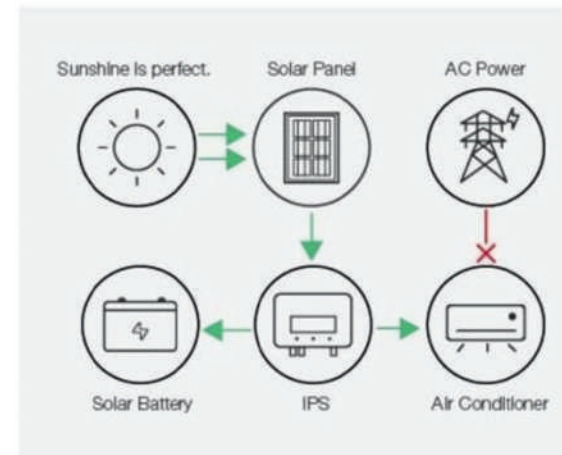
When Sunshine is weak, like in the morning or cloudy day, the A/C unit will take the solar as the priority choice, the insufficient power will take from the grid to make sure 24H working.



## Model-2. With Grid Power:

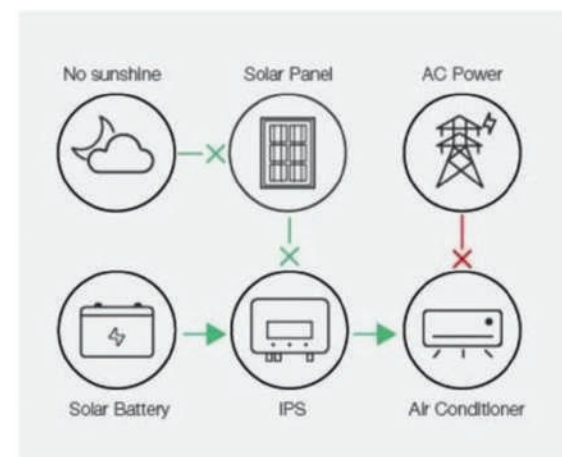
### 3. 100% Solar

When the solar energy meets the min running requirement of compressor, the A/C unit will start and operate by solar energy only, even the grid off, 100% energy saving. In the same time, the system will charge the battery automatically.



### 4. Grid Off

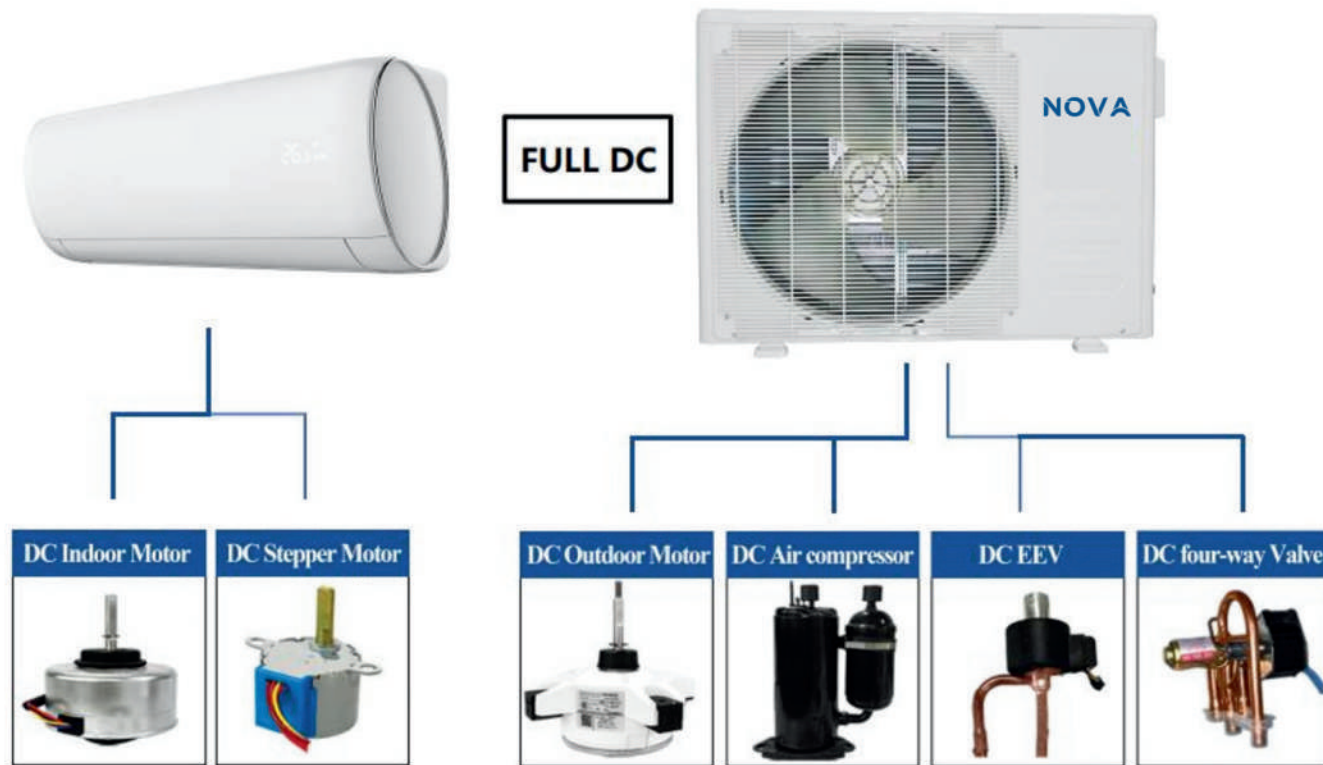
When the grid off or the customer turns off the grid power, the system will automatically take the battery energy to run the A/C unit, it will ensure you enjoy cooling summer in any situation.





## Solar Part Description

Hybrid Solar air conditioner is engineered from the ground up for use with solar. All electrical components are DC powered including compressor, high-efficiency DC fan motors, DC valves & solenoids, etc.





## Solar Part Description



### >ACDC Hybrid Indoor Unit

DC 90V-380V;

Available Capacity 9k, 12k, 18k,  
24k Btu ;

Digital display



### >ACDC Hybrid Outdoor Unit

AC Input 220~240V

50/60HZ;

Low Noise 53~60dB

Eco Friendly R32



- Copper pipe (4m)
- Drain pipe (4m)
- Power cable (4m)
- Remote contron
- MC4 connector



## Solar Part Description



DC Cable.

Cross Section: 4m<sup>2</sup>, 6m<sup>2</sup> Optional Rated  
Voltage: 600VDC(UL)/1000VDC(TUV)  
Rated Current: 55A, 70A



Lightning Arrester.

PC40-85V DC



Fuse-Protection.

RT28N-32X 1P



DC Breaker.

DC800V 2P 20A



Solar Air Conditioner					
PRODUCT SPECIFICATION SHEET			RC-ADC12GW-XA-R32	RC-ADC18GW-XA-R32	RC-ADC24GW-XA-R32
Warranty	Unit	Years	3	3	3
	Compressor	Years	5	5	5
Power supply source		V/Ph/Hz	220V-1-50Hz/220~240V-1-50Hz	220V-1-50Hz/220~240V-1-50Hz	220V-1-50Hz/220~240V-1-50Hz
Power supply source		DC	DC90-380V MAX.15A	DC90-380V MAX.15A	DC90-380V MAX.20A
Rated Capacity	Cooling	W	3500	5000	7000
	Heating	W	3600	5100	7200
Rated Power Consumption	Cooling	W	1030	1520	2100
	Heating	W	980	1550	2180
Rated Running Current	Cooling	A	4.7	6.9	9.3
	Heating	A	4.5	7	9.6
SEER Cooling		W/W	SEER6.6	SEER6.6	SEER6.6
SCOP Heating		W/W	SCOP4.6	SCOP4.0	SCOP4.0
Refrigerant		-	R32	R32	R32
Refrigerant Charged		g	900	920	1260
Air Flow Volume		(m <sup>3</sup> /h)	650	900	1200
Noise level (INDOOR)		dB(A)	42	45	48
Noise level (OUTDOOR)		dB(A)	50	52	56
Connect pipe	Thickness	mm	Φ6*0.5	Φ6*0.5	Φ6*0.5
	Gas tube Diameter × Thickness	mm	Φ9.52*0.6	Φ12.7×0.7	Φ15.88×0.9
Compressor Parameter	Compressor Model		KSN108D34UFZ	FTZ-SM151AXBA	KTM240D43UMT
	Drive mode	AC/DC	DC	DC	DC
	Type		Rolling Rotor Type	Rolling Rotor Type	Rolling Rotor Type
	Brand		GMCC	LAMDA	GMCC
	Capacity	W	3080±5%	5780±5%	7740±5%
	Input	W	780±5%	1320±5%	2066±5%
	Rated current(RLA)	A	5.4±5%	6.0±10%	9.4±10%
Outdoor Dimension	Net Dimension	mm	795×290×555	795×290×555	860×304×733
	Packing Dimension	mm	910400630	910400630	1005450820
Indoor Dimension	Net Dimension	mm	895203300	1000240310	1130245320
	Packing Dimension	mm	965275370	1075310385	1195310390
Indoor unit weight (Net)		Kg	12	15	17.5
Outdoor unit weight (Net)		Kg	40	43	55
Loading qty (20/40Q/40HQ)			90/176/194	79/160/180	50/105/120

# NOVA

## Certifications

