

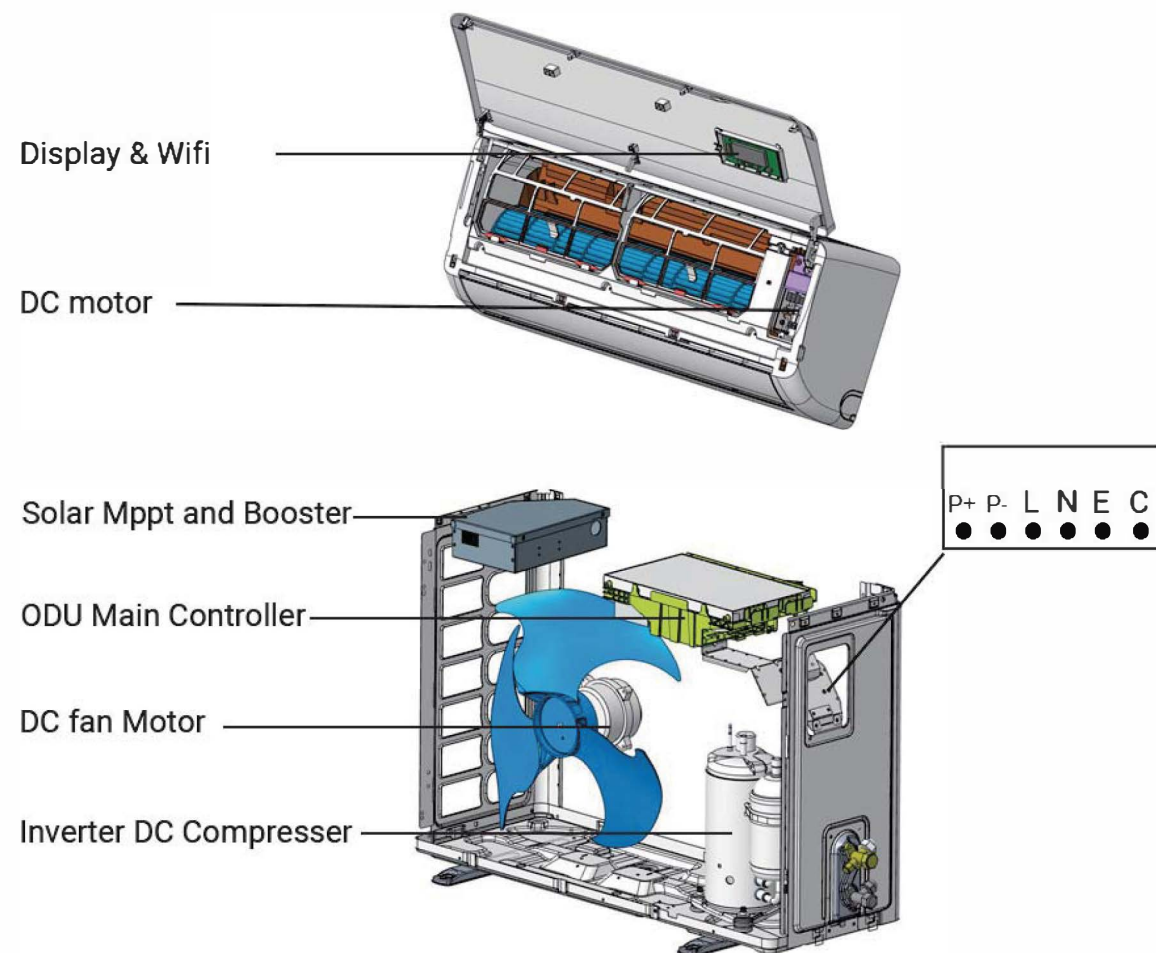
# Solar Air Conditioner Catalog



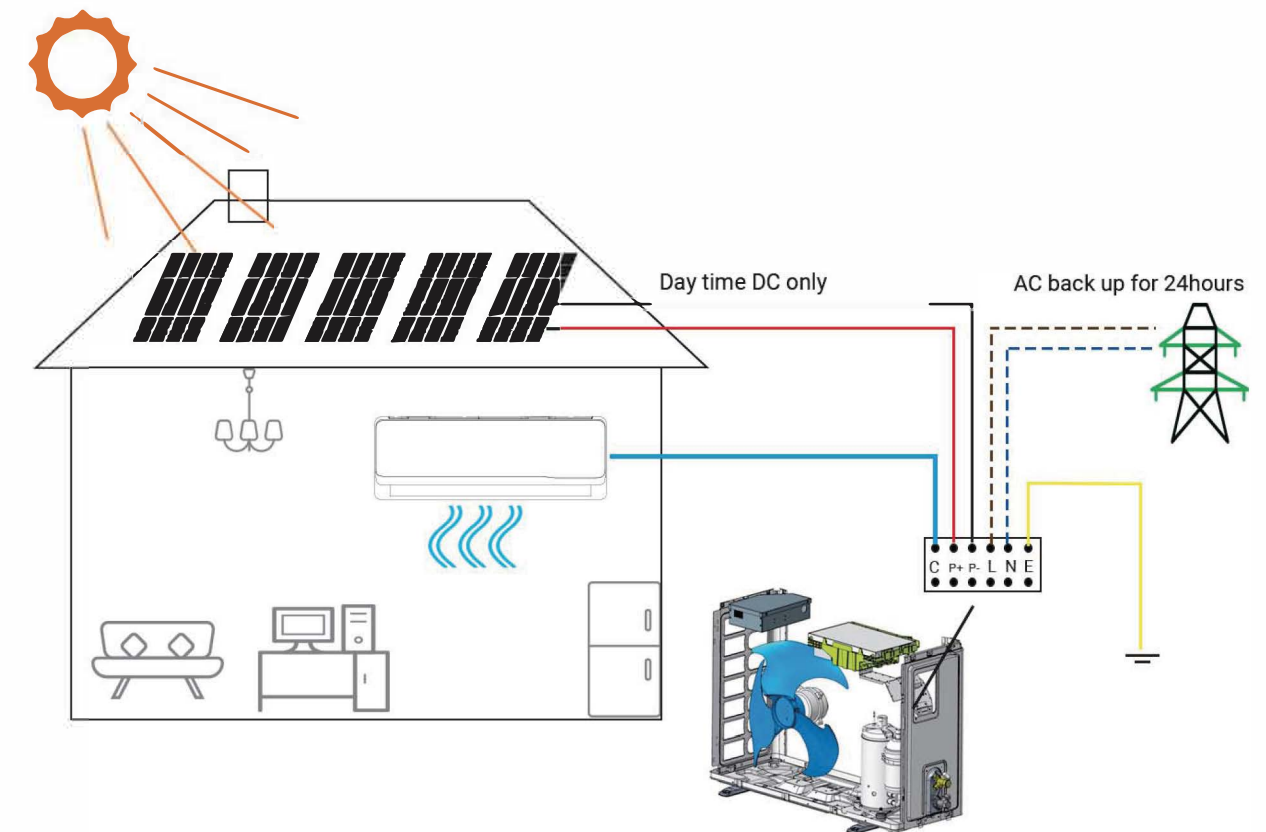
## Hybrid AC/DC

4<sup>th</sup> generation hybrid ACDC solar air conditioner is based on full DC inverter air conditioner VRF technology. The main components of our unit is DC inverter compressor, DC fan motor, solar MPPT booster and inverter air conditioner controller.

The hybrid ACDC unit power supply from outdoor unit, it has MC4 connector P+/P- for DC solar panel directly power supply, it has (L/N/E) for AC grid power supply. And indoor unit connect with outdoor unit by connection cable. Please check below structure design.

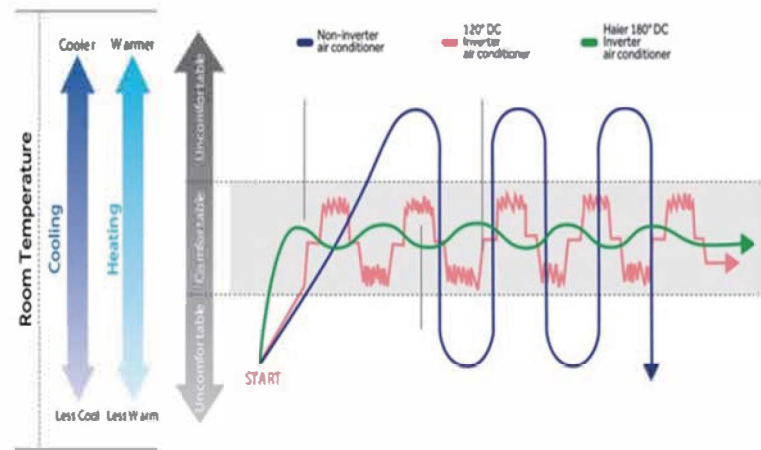


## Hybrid AC/DC



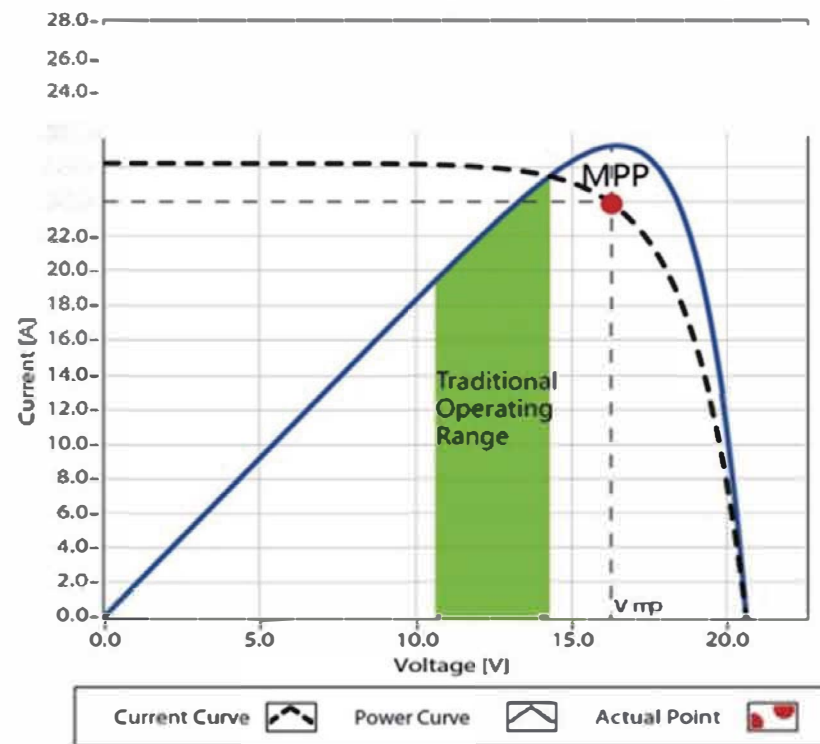
4<sup>th</sup> generation hybrid ACDC solar air conditioner works with solar panel unstable DC power directly from 7am to 17pm day time with power minimum 300w, no need solar inverter, no need grid power, no need battery. Rainy day, it will works mix power AC+DC and priority from solar power. At night, it automatically get grid AC power same as high efficiency normal inverter air conditioner. The unit with WiFi function can be controlled anywhere through WiFi or Bluetooth, and App with DC power meter and AC power meter, you can fully check how much energy saving or using energy through APP smart power meter function.

# Hybrid AC/DC



Twin Rotary Compressor

180° sine wave DC inverter controller technology for inverter air conditioner, "SVPWM" which makes the compressor ran at low frequency below 0.1Hz, improve the utilization of the DC compressor by 13% compared with 120 DC inverter controller technology. By 32% compared with Non-inverter air conditioner.



80V-380V Mppt

MPPT efficiency:99.9%  
 DC to DC  
 0 convert lose  
 10+ years life design

# Hybrid AC/DC

## WiFi Smart Control



## App power meter



## Solar & Grid Indicator



Use WiFi or Bluetooth to control solar air conditioner anywhere.

Share device to your family member

Timer setting On & Off

Control multi devices in one APP

Check below data from App power meter:

DC power input

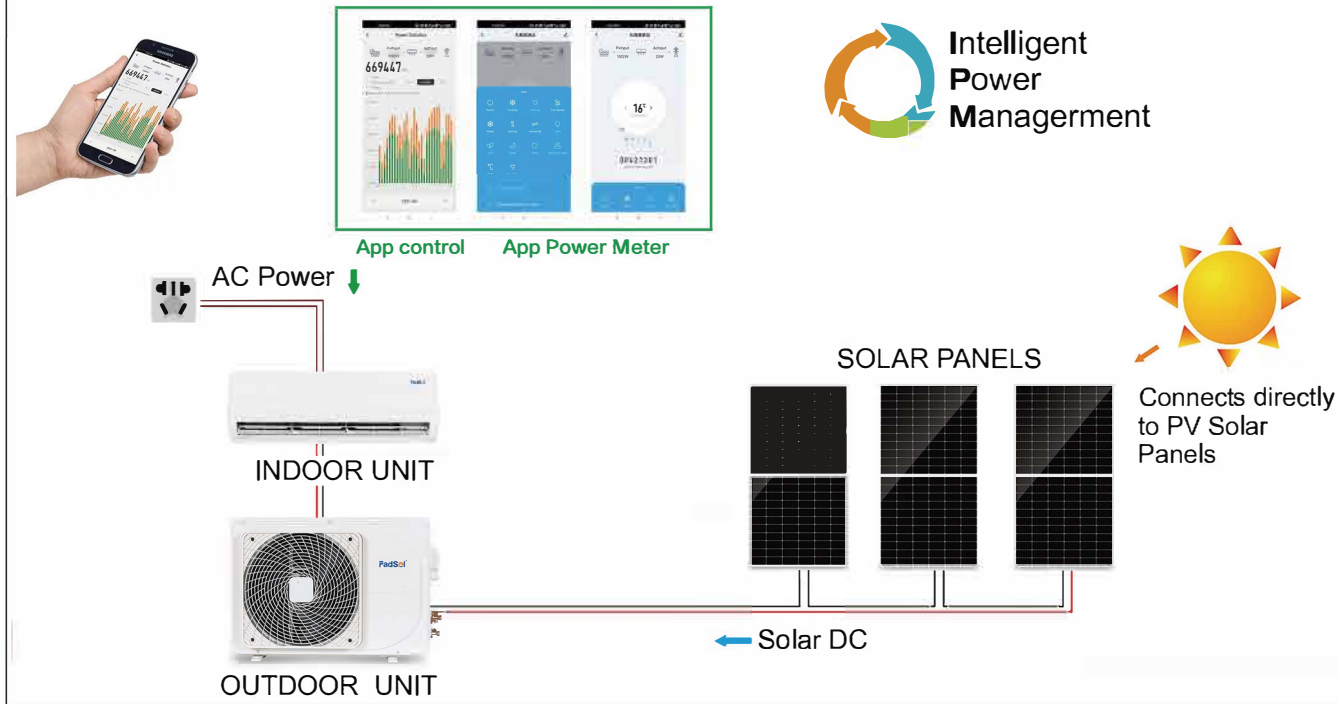
AC power input

Total saving by solar

Total power using

Daily/Months/yearly power data

# Hybrid AC/DC



Model	Solar panel In Series connection	QTY
		(280-400W) 4pcs
		(400-500W) 3pcs
		(280-400W) 6pcs
		(400-500W) 5pcs
		(280-400W) 8pcs
		(400-500W) 7pcs

Packing list		
Carton	Name	QTY
Indoor package	Indoor unit	1
	Remote controller	1
	Drain Pipe	1
	Installation manual	1
	user manual	1
	Hanger plate	1
	Indoor & Outdoor Cable	1
	Mc4 connector	2
	Accessory Bag	1
Outdoor package	Outdoor unit	1
	Copper connection Pipe	2
	Scotch tape	1

Hybrid ACDC Solar Air Conditioner					
Model	Unit				
Power Supply	AC Power	Ph-V-Hz	1Ph 208V-240V/50-60HZ	1Ph 208V-240V/50-60HZ	1Ph 208V-240V/50-60HZ
	DC Power (PV in Series)	V	80-380V	80-380V	80-380V
	DC Power Current	A	</=12A	</=12A	</=12A
Advised Solar Panel		Pcs	(3-4)*330W in series	(3-6)*330W in series	(3-8)*330W in series
Rated Cooling	Capacity	W	3510(900-3900)	5070(1200-6000)	6450(1800-7900)
		BTU	12000(3000-13300)	17300(4100-20400)	22000(6100-27000)
	Power input	W	940(190-1270)	1400(220-2100)	1790(300-3200)
Rated Heating	Capacity	W	4100(1000-4500)	6100(1200-6800)	7800(1800-9100)
		Power input	W	1170(190-1700)	1770(220-2500)
T1 EER (W/W)/(BTU/W)		/	3.75/12.75	3.60/12.35	3.60/12.30
COP (W/W)/(BTU/W)		/	3.50/11.95	3.45/11.75	3.40/11.60
Dehumidification capacity		L/h	1.3	1.7	2.5
Compressor	Model	/	WHP04200	WHP05600	5RD198
	Type	/	2xRotary Inverter	2xRotary Inverter	2xRotary Inverter
	Brand	/	Highly	Highly	Panasonic
Indoor fan motor	Model		BLDC-15W	BLDC-45W	BLDC-45W
Indoor noise level (Turbo)		dB(A)	42.5	46	50
Indoor unit	Dimension(W×H×D)	mm	840×205×295	1080×330×237	1080×330×237
	Packing (W×H×D)	mm	920×290×360	1140×300×382	1140×300×382
	Net weight/Gross weight	Kg	9.0/12.5	15.0/18.5	15.0/18.5
Outdoor fan motor	Model	/	BLDC-40W	BLDC-55W	BLDC-75W
Outdoor noise level		dB(A)	?52	?55	?58
Outdoor unit	Dimension(W×H×D)	mm	802×564×323	802×564×323	900×700×337
	Packing (W×H×D)	mm	910×622×405	910×622×405	1006×755×418
	Net/Gross weight	Kg	33.5/37.5	37/42.0	50/54.5
Refrigerant type		/	R410A	R410A	R410A
Max Design pressure		MPa	4.3/1.5	4.3/1.5	4.3/1.5
Refrigerant copper pipe	Gas side/Liquid side (inch)	inch	3/8 1/4	1/2 1/4	1/2 1/4
	Max. refrigerant pipe length	m	15	20	25
	Max. difference in level	m	8	10	10
Refrigerant connction copper pipe length		m	3	4	4
Connection wire length		m	4	5	5
Electronic Expansion Valve		/	Yes	Yes	Yes
Loading QTY 40" Hq/ 20"GP		Sets	200/85	160/75	115/50