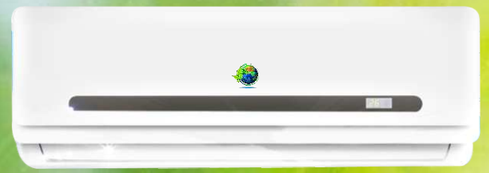
24 Clean Energy Co. LTD
12 FL. ZEN WORLD TOWER
RAJDAMRIROAD, PATHUMWAN
10330 BANGKOK, THAILAND
Tel: +66 (0)99 291 65 49
email: 24@24cleanenergy.com

SOLAR AIR CONDITIONER

CONTENTS

M series（9000－12000BTU）

A series（9000－24000BTU）



Y series（9000－24000BTU）

Refrigeration technical combine with pragmatic art perfecting

air conditioner,combine with refrigeration technical and arts,consider air conditioners reliability and stability function, and also to consider harmony with room decoration(especially the type connecting to family: wall-mounted type,cabinet). And always use the latest surface handicraft; make you feel comfortable and suitable for air environment, the room space handicraft, make you feel comfortable and suitable for air environment, the room space showed more style, and more nature fresh.

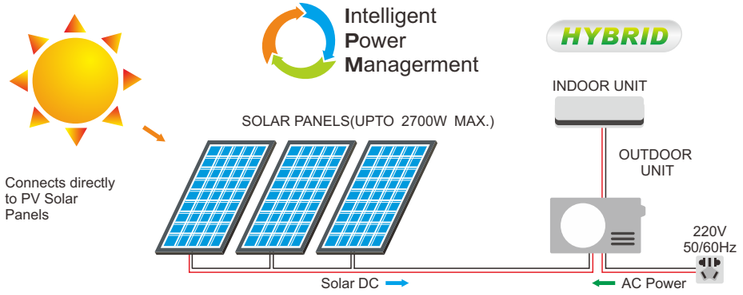
air conditioner use world famous compressor from japan, hydrophilic aluminum foil, super-quality internal threaded copper pipe and other key parts, add over 10 years technology and experience, the tip technical team, and consummate quality check, manufacturing hangning with high-performance effect.

Affordable Money-saving

On Grid Hybrid solar air conditioner

On Grid Hybrid solar air conditioner

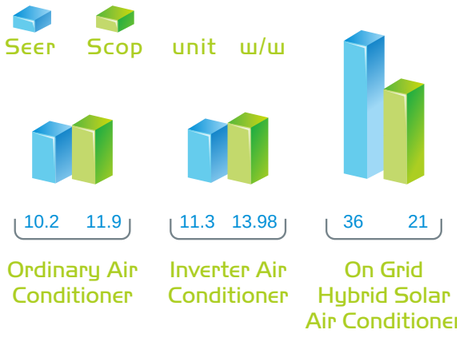
How It Works



Dual power On Grid Hybrid Solar Air Conditioning system,the power from solar panel priority supply directly to indoor & outdoor fan motor and compressor. when the solar power is not sufficient, by equipped with dual PV MPPT tracking system, the system automatically switch to run by grid power, thus achieved the AC/DC power supply interaction, and uninterrupted supply power to air conditioner, ensure the system high efficiency up to SEER36;

Wide voltage design, free combination of solar panels,make our system not limited by the installation space.Minimum only two solar panels required to run our system, maximum power of solar panels is 2700W.

On Grid Hybrid solar air conditioner



Full DC control, superior performance, more cost saving.

System advantages:

- AC/DC dual power supply
- High energy efficiency: maximum up to SEER 36; Even if there is no sunshine, up to SEER 21.
- Convenient and quick installation, no longer require solar controller, battery and inverter
- Using solar power priority, solar power utilization rate more than 95%
- Solar power/grid power supply interaction, achieve uninterrupted power supply;
- Wide voltage design, free combination of solar panels, not limited by installation place.
- Compliant to all climate condition. (T1 & T3)

Spending very little money daily and use air conditioner without any worry.

Enjoy air conditioner almost free during the day

On Grid Hybrid solar air conditioner

panel M

> ***KF(R)-26GW/BPSM***
> ***KF(R)-35GW/BPSM***

Technical Data Parameters - Panel M

Model			KF(R)-26GW/BPSM	KF(R)-35GW/BPSM
Power supply(AC)		Ph-V-Hz	1Ph,220V～, 50-60Hz	1Ph,220V～, 50-60Hz
Power supply(DC)		V	50-300V	50-300V
Cooling	Capacity	Btu/h	9000（3500-11000）	12000（3700-14000）
	input	W	590（100-1200）	865（110-1500）
	Rated Current	A	2.68（0.45-5.45）	3.93（0.5-6.82）
	EER	W/W	4.18	4.05
Heating	Capacity	Btu/h	9500（3800-11500）	13000（4000-14500）
	input	W	625（120-1200）	880（130-1510）
	Rated Current	A	2.84（0..5-5.45）	4（0.59-6.86）
Indoor air flow (Hi/Mi/Lo)		m3/h	550/450/350	550/450/350
Indoor noise level (Hi/Mi/Lo)		dB(A)	＜40/35/28	＜40/35/28
Indoor unit	Dimension(W*D*H)	mm	850*190*285	850*190*285
	Packing (W*D*H)	mm	950*290*385	950*290*385
	Net/Gross weight	Kg	7.9/10.2	7.9/10.2
Outdoor unit	Dimension(W*D*H)	mm	835*320*540	835*320*540
	Packing (W*D*H)	mm	900*400*600	900*400*600
	Net/Gross weight	Kg	28/33	33/38
Operation temp		℃	17~32/0~30	17~32/0~30
Ambient temp (cooling/heating)		℃	18-50/-15-34	18-50/-15-34
Application area		m2	10-18	13-23

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2.The above version we reserve all the right for the final explanation

On Grid Hybrid solar air conditioner

panel A

> ***KF(R)-26GW/BPSA***
> ***KF(R)-35GW/BPSA***
> ***KF(R)-50GW/BPSA***
> ***KF(R)-70GW/BPSA***

Technical Data Parameters - Panel A

Model			KF(R)-26GW/BPSA	KF(R)-35GW/BPSA	KF(R)-50GW/BPSA	KF(R)-70GW/BPSA
Power supply(AC)		Ph-V-Hz	220-240V~ 50/60Hz,1Ph	220-240V~ 50/60Hz,1Ph	220-240V~ 50/60Hz,1Ph	220-240V~ 50/60Hz,1Ph
Power supply(DC)		V	50-380V	50-380V	50-380V	50-380V
Rated Cooling	Capacity	Btu/h	9000(3500-11000)	12000(3700-14000)	18000(6200~20900)	24000(9100-26900)
Cooling Power input		W	100-1240	100-1580	140~2360	240-3030
Cooling Current		A	0.4-5.4	0.4-6.9	0.6~10.3	1.0-13.2
Rated Heating	Capacity	Btu/h	10000(2800-11500)	13000(3000-14400)	19000(4700~23000)	25000(5500-30000)
Heating Power input		W	120-1200	130-1510	200~2410	260-3140
Heating Current		A	0.5-5.2	0.6-6.6	0.9~10.5	1.1-13.7
Indoor air flow (Hi/Mi/Lo)		m3/h	570/470/370	570/470/370	840/680/540	980/800/640
Indoor sound pressure level (Hi/Mi/Lo/Si)		dB(A)	41/36/28	41/36/28	43/37/32	45/39/34
Indoor unit	Dimension(W*D*H)	mm	805x194x285	805x194x285	957x213x302	1040×220×327
	Packing (W*D*H)	mm	870x270x360	870x270x360	1035x295x380	1120x405x310
	Net/Gross weight	Kg	7.2/9.6	7.2/9.6	9.5/12.5	11.9/15.2
Outdoor unit	Dimension(W*D*H)	mm	835x320x540	835x320x540	845x310x600	910x340x700
	Packing (W*D*H)	mm	900x400x600	900x400x600	900x390x690	1035x375x755
	Net/Gross weight	Kg	28/33	33/38	35/40	45/48
Refrigerant	Type		R410A	R410A	R410A	R410A
Operation temperature	Indoor(cooling/heating)	℃	17～32/0～30	17～32/0～30	17～32/0～30	17～32/0～30
	Outdoor(cooling/heating)	℃	18-50/-15-34	18-50/-15-34	18-50/-15-34	18-50/-15-34
Application area		m2	12-18	16-23	24-35	32-47

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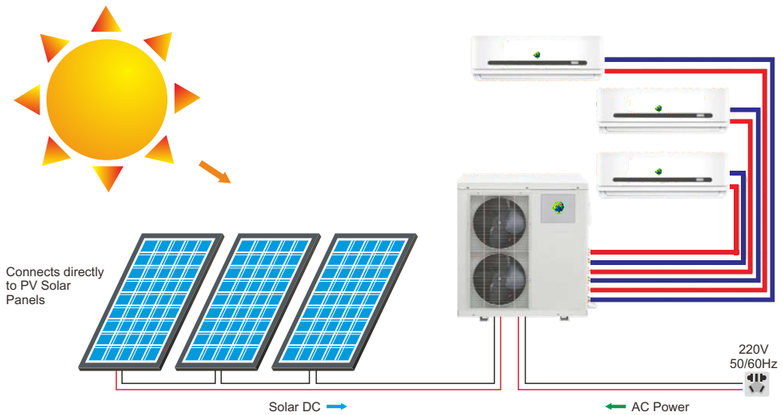
On Grid Hybrid solar air conditioner - Muiti Zones series



21 SEER 50/60Hz R410a

> ***H2OD18HFN1***
> ***H3OD30HFN1***
> ***H4OD36HFN1***
> ***H5OD48HFN1***

Technical Data Parameters

Outdoor model			H2OD18HFN1	H3OD30HFN1	H4OD36HFN1	H5OD48HFN1
Power supply(AC)		Ph-V-Hz	208-230V~ 60Hz, 1Ph	208-230V~ 60Hz, 1Ph	208-230V~ 60Hz, 1Ph	208-230V~ 60Hz, 1Ph
Power supply(DC)		V	50-380V	50-380V	50-380V	50-380V
cooling	capacity	W	18000 (7000-20500)	28000(9000-30500)	36000 (11000-37500)	48000 (13500-49500)
	input power	W	1352(520-1710)	2120(850-2389)	2859(1039-3031)	3624(1300-3750)
	Run current	A	6.14(2.36-7.77)	9.63(3.86-10.86)	12.99(4.72-13.77)	16.47(5.91-17.04)
	EER	Btu/w	12.5	12.5	11.5	12.5
	SEER		22.5	23	22.5	22.4
Heating	capacity	W	19000 (8000-21500)	29000(9500-31000)	37500(11500-38500)	49000 (14000-50000)
	input power	W	1385(560-1710)	2193(865-2419)	2909(1079-3083)	3714(1350-3850)
	Run current	A	6.29(2.5-7.77)	9.96(3.93-10.99)	13.22(4.9-14.01)	16.88(6.14-17.5)
	COP	Btu/w	12.28	13.29	11.59	12.28
Heating at 17F	Rated capacity	Btu/h	12000	17200	23000	29600
Heating at 5F	Maxlmum capacity	Btu/h	13900	21900	28000	34900
Outdoor unit	Dimension(W*D*H)	mm	845x363x702	946x410x810	946x410x810	952x415x1333
	Packing (W*D*H)	mm	965x395x755	1090x500x875	1090x500x870	1095x495x1485
	Net/Gross weight	Kg	48/52	68/73	71/76	102/116
Refrigerant			R410A	R410A	R410A	R410A
Indoor model			HSF-09HRFN1	HSF-12HRFN1	HSF-18HRFN1	HSF-24HRFN1
Outdoor unit	Dimension(W*D*H)	mm	802x189x297	802x189x297	1080x226x335	1080x226x335
	Packing (W*D*H)	mm	875x285x375	875x285x375	1155x415x315	1155x415x315
	Net/Gross weight	Kg	8.2/10	8.2/10	13.2/16.8	13.2/16.8
Application area		m2	12-17.6	16-23.4	23.3-34.2	30.6-44.9

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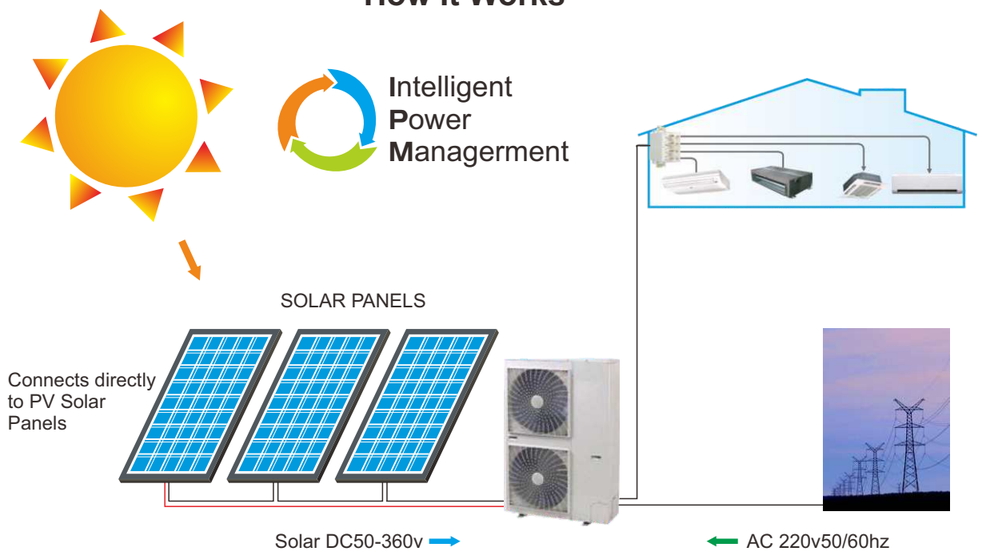
On Grid Hybrid Solar Air Conditioner -Central Air Conditioner Series

How It Works



AC/DC Hybrid Solar Residential Central Air Conditioner, use PV power as priority, grid AC power as back up, power the fan motor and compressor directly, AC/DC dual power system, wide voltage (50v-360v), achieve solar panel free combination, solve the problem of installation space and power requirement. Equipped with double route MPPT PV tracking system, when the PV power is shortage, the AC Grid power helps, keep the air conditioner running, assure the high efficiency.

- AC DC Hybrid dual power
- High efficiency
- Easy convenient installation no longer require solar charger battery and converter
- Use the PV power as priority the utilization rate more than 90
- Grid AC power and PV power interact achieve non stop power supply
- wide voltage 50v 360v achieve solar panel free combination according to your installation space
- Not limited by the climate T1 T3 applicable for all around the world

Spending very little money daily and use air conditioner without any worry.

Enjoy air conditioner almost free during the day

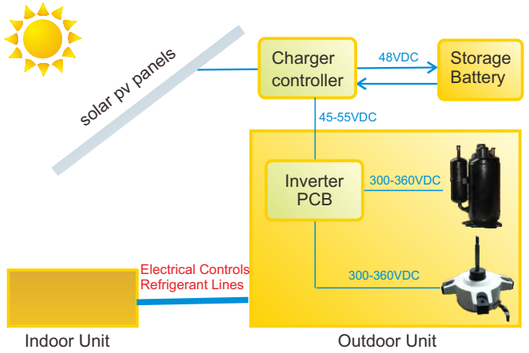
Enjoy air conditioner almost free during the day, and spend very little money during night.

100% SOLAR POWERED AIR CONDITIONER

Off Grid DC 48V Solar Air Conditioner

Off Grid (DC 48V) Solar Air Conditioner

Working principal

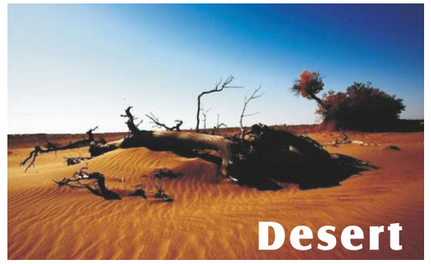


The new generation 100% solar DC air conditioner adopts perfect inverter controller technology, Convert 48VDC from solar PV panels directly to DC 300-360V voltage which required by compressor and motor. Reduced intermediate links. While also reduce energy losses. The indoor motor, compressor, outdoor motor in the new generation 100% solar air conditioner system all adopt brushless DC motor. It greatly improved the stability and efficiency of system.

Technical Features

1, Direct PV 48V powered, no conversion process.（off grid）
2, Easy installation, very similar like the traditional air conditioner.
3, Not limited by power supply and climate, apply for world wild use.(Suitable for T3 tropical area)
4, Full DC 3D Control (adopt world well known DC compressor , DC indoor fan motor, DC outdoor fan motor), reliable running and high efficiency.

Applicable Places



Off Grid DC 48V Solar Air Conditioner

panel K

> ***KFR-26GW/DCBP***
> ***KFR-35GW/DCBP***
> ***KFR-50GW/DCBP***
> ***KFR-70GW/DCBP***

Technical Data Parameters

Model			KFR-26GW/DCBP	KFR-35GW/DCBP	KFR-50GW/DCBP	KFR-70GW/DCBP
Power supply		Ph-V-Hz	DC48V			
Cooling	Capacity	Btu/h	9000(3500-11000)	12000(3700-14000)	18000(6200-19500)	24000(5100-26900)
	Input	W	475(100-850)	635(110-1300)	888(140-1650)	1310(240-1980)
	Rated current	A	9.89(2.08-17.71)	13.23(2.29-27.08)	18.5(2.91-34.38)	27.29(5-41.25)
Heating	Capacity	Btu/h	9500(3800-11500)	13000(4000-15000)	19000(4700-20000)	25000(5500-30000)
	Input	W	462(120-880)	620(130-1350)	885(200-1710)	1285(260-2039)
	Rated current	A	9.63(2.5-18.33)	12.92(2.71-28.13)	18.43(4.17-35.63)	26.78(5.42-2.48)
Indoor air flow (Hi/Mi/Lo)		m3/h	570/470/370	570/470/370	721/566/458	970/780/590
Indoor noise level (Hi/Mi/Lo)		dB(A)	41/36/28/23	41/36/28/23	43.7/39.3/35.1	45/36/31.5
Indoor unit	Dimension (W*D*H)	mm	805x194x285	805x194x285	957x213x302	1040×220×327
	Packing (W*D*H)	mm	870x270x360	870x270x360	1035x305x380	1120x310x405
	Net/Gross weight	Kg	7.2/9.6	7.2/9.6	9.5/12.5	11.9/15.2
Outdoor air flow		m3/h	1350	1600	2100	2900
Outdoor noise level		dB(A)	＜50	＜50	＜52	⩽56
Outdoor Unit	Dimension (W*D*H)	mm	835*320*540	835*320*540	835*320*540	910*340*700
	Packing (W*D*H)	mm	900*400*600	900*400*600	900*400*600	1063*480*760
	Net/Gross weight	Kg	33/39	35/40	39/44	54/59
Operation temp		℃	17℃~31℃	17℃~31℃	17℃~31℃	17℃~31℃
Ambient temp (cooling/heating)		℃	18-50/-15-34	18-50/-15-34	18-50/-15-34	18-50/-15-34
Application area		m2	10-20	15-25	25-40	30-45

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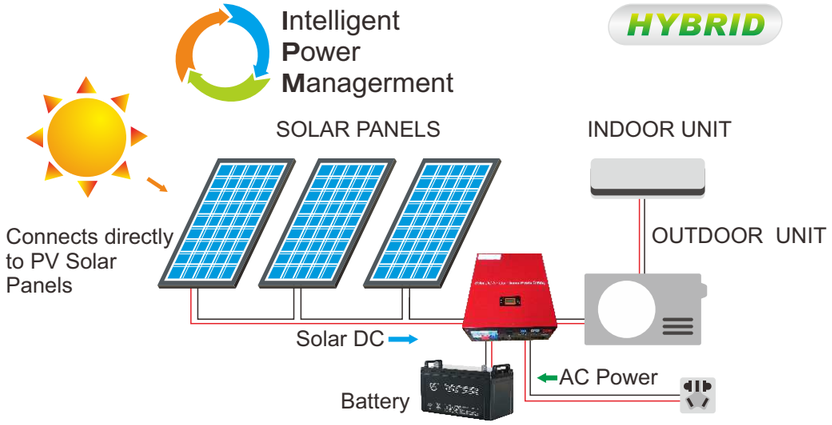
Affordable Money-saving

On/Off Grid Hybrid Solar Air Conditioner

On/off Grid Hybrid Solar Air Conditioner

How It Works



On/Off Grid Solar Air Conditioner, equipped MPPT PV tracking system and the smart controller, utilize the DC power as priority. Energy delivered from solar PV directly and if not sufficient, will aggregates with the grid (or battery optional), if the grid cut (or battery runs out), then the battery (or grid power) comes as back up to continually run the air conditioner. This solution is perfect for the places where the grid power is not steady or grid power often cut.

System features:

1.High efficient, Up to SEER 36, even if there is no sunlight, still reaches SEER 21
2.Easy & quick installation, not require the inverter
3.When the solar power is not sufficient, grid power or battery priority optional
4.Suitable for tropical climate like Middle east, Africa and Pakistan, India.

On/Off Grid Hybrid solar air conditioner

panel A

> ***KFR-26GW/BPBLA***
> ***KFR-35GW/BPBLA***
> ***KFR-50GW/BPBLA***
> ***KFR-70GW/BPBLA***

Technical Data Parameters - Panel A

model			KFR-26GW/BPBLA	KFR-35GW/BPBLA	KFR-50GW/BPBLA	KFR-70GW/BPBLA
		V	DC48V	DC48V	DC48V	DC48V
cooling	capacity	Btu/w	9000（3500-11000）	12000（3700-14000）	18000（6200-19500）	24000（5100-26900）
	input	W	485（100-750）	658（110-1200）	905（140-1500）	1325（240-1850）
	Rated current	A	10.11（2.08-15.63）	13.7（2.29-25）	18.85（2.91-31.25）	27.6（5-38.54）
Heating	Capacity	Btu/w	9500（3800-11500）	13000（4000-15000）	19000（4700-20000）	25000（5500-30000）
	input	W	505（120-800）	675（130-1220）	915（200-1600）	1345（260-1950）
	Rated current	A	10.52（2.5-16.67）	14.06（2.71-25.42）	19.06（4.17-33.33）	28.02（5.42-40.63）
Indoor air flow (Hi/Mi/Lo)		m3/h	570/470/370	570/470/370	721/566/458	970/780/590
Indoor noise level (Hi/Mi/Lo)		dB(A)	41/36/28/23	41/36/28/23	43.7/39.3/35.1	45/36/31.5
Indoor unit	Dimension(W*D*H)	mm	805x194x285	805x194x285	957x213x302	1040×220×327
	Packing (W*D*H)	mm	870x270x360	870x270x360	1035x305x380	1120x310x405
	Net/Gross weight	Kg	7.2/9.6	7.2/9.6	9.5/12.5	11.9/15.2
Outdoor air flow		m3/h	1500	1600	2100	2600
Outdoor noise level		dB(A)	＜48	＜50	＜52	≤56
Outdoor unit	Dimension(W*D*H)	mm	835*320*540	835*320*540	835*320*540	910*340*700
	Packing (W*D*H)	mm	900*400*600	900*400*600	900*400*600	1063*480*760
	Net/Gross weight	Kg	33/39	35/40	39/44	56/62
Operation temp		℃	17℃~31℃	17℃~31℃	17℃~31℃	17℃~31℃
Ambient temp (cooling/heating)		℃	18-52/-15-34	18-52/-15-34	18-52/-15-34	18-52/-15-34
Application area		m2	12-18	16-23	24-35	32-47

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Intelligence

1. versatile and flexible control mode, besides the standard remote controller, you also can choose the mobile APP and central control, meet your different requirement.

2.Remotely turn on/turn off the air conditioner, achieve remotely control the air conditioners, distance no longer becomes a problem, and moreover, you can check the air conditioners'' running status by your mobile and laptop at anytime, very convenient.

3.Control the air conditioners by your smart phone which connected to internet through 4G/ 3G or WIFI (make sure your air conditioners are covered by the router internet),achieve intelligence life.

Forgot to turn off your air conditioner when you are outside

Remotely turn on your air conditioner after sport

Turn on your air conditioner before you get home

Corporate Honors

Patent certificate
of On Grid Series

Patent certificate
of Off Grid Series

Patent certificate
of On/Off Grid Series

ISO certificate

CB certifictae

CE certificate

Factory corners

Project cases