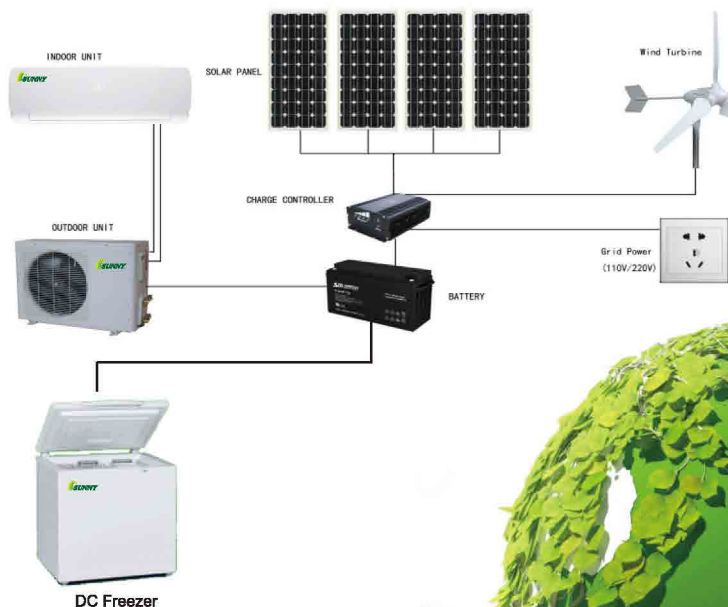


太阳能空调，冷柜等新能源产品制造商和开拓者  
Professional Green Energy Products, Solar Air  
Conditioner, Solar Freezers Manufacturer and Pioneer



宁波福优桑尼光伏科技有限公司  
Ningbo 4USUNNY Photoelectric Tech.Co.,Ltd



Tina Yu  
(Sales Manager)

Whatsapp/Mobile:0086-18758372261

Tel:0086-574-55842995 Fax:0086-574-86881658  
Add:NO.8 Xuri Road, Leidian County, Huzhou City, Zhejiang Province, China  
Branch :NO.548, Mingzhou West Road, Ningbo City, Zhejiang Province, China  
Email:sales01@solarelectricappliance.cn



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## 公司简介 COMPANY PROFILE

Ningbo 4USUNNY Photoelectric Tech.Co.,Ltd Local in Zhejiang province ,near Shanghai ,a professional solar air conditioner,solar freezer manufacturer, holds two production lines with production capacity up to 100,000 sets per year with its world-class equipments inmanufacturing and testing, the products of which are selling to over 60 countries worldwide such as North America, South America,Europe, Middle-East and Southeast countries.

With diligent sureness and service innovation as our company spirit , careful manufacture, continuous improvement and pursuit of excellence as our quality spirit.

Warmly welcome all domestic and foreign, new and old customers to visit our company! We look forward to sincere cooperation and a win-win situation with you!

## 国外安装工程 INSTALLTION PROJECTS PHOTOS



Pakistan Project



Dubai Project



Egypt Project



USA Project



Australia Project



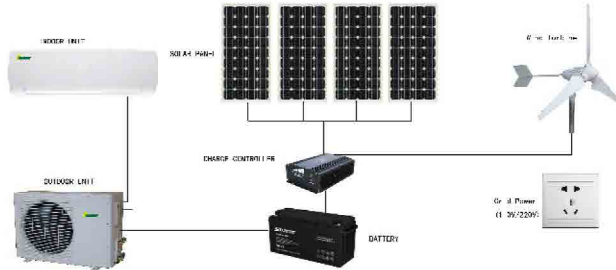
Mexico Project



## 纯直流太阳能空调 DC Pure Solar Air Conditioner

### Features:

- \* Work voltage from 21-60V;
- \* High-SEER BLDC (Brushless DC) permanent magnet compressor;
- \* No Inverter - 100% DC operation;
- \* Solar powered air conditioning requires no AC power;
- \* Compressor provides high efficiency operation and slow start;
- \* Overnight operation available;
- \* Innovative control logic for energy saving;
- \* Runs smoothly at -10 °C to +55°C;
- \* Works with external standard solar charge controller;
- \* Quiet operation.



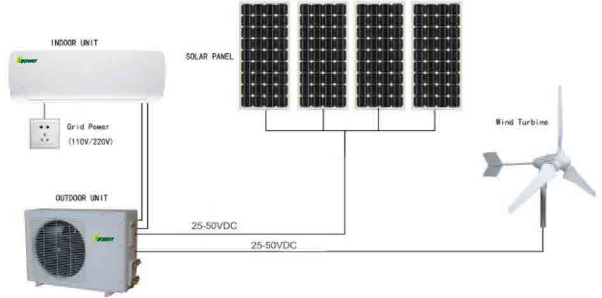
### Parameters

Model No.		KFR-17GW/DC	KFR-26GW/DC	KFR-35GW/DC	KFR-50GW/DC	KFR-60GW/DC	KFR-72GW/DC	
		0.75HP	1HP	1.5HP	2HP	2.5HP	3HP	
		0.5ton	0.75ton	1ton	1.5ton	1.8ton	2ton	
Power Consumption								
Capacity	Cooling	Btu/h	6000	9000	12000	18000	20000	24000
		W	1700	2600	3500	5200	6000	7200
	Heating	Btu/h	7000	10000	13000	20000	24000	27000
		W	1900	2800	3700	6000	7000	7900
Noise	Indoor	dB(A)	≤36	≤40	≤42	≤43	≤45	≤50
	Outdoor	dB(A)	≤48	≤50	≤52	≤54	≤56	≤58
Air Circulation		m³/h	400	450	550	650	850	1050
Suitable Area		m²	6~10	10~15	12~25	20~30	26~42	30~48
EER		W/W	4.52	4.56	4.67	4.73	4.66	4.67
		Btu/h/w	15.88	15.79	16.00	16.36	16.67	16.00
Refrigerant			R-134A	R-134A	R-134A	R-134A	R-134A	R-134A
Work Temp.		°C	-15~60	-15~60	-15~60	-15~60	-15~60	-15~60
Power Consumption								
Power Input		W	350	500	750	1100	1200	1300
Rated Current		A	32.5	19/9.5	16	22	24	30
Input Power		V	DC 12	DC24/48	DC 48	DC 48	DC 48	DC 48

## 并网发电型太阳能空调 On-Grid Inverter Solar Air Conditioner

### Features:

- \* Auto-switch between DC solar energy and 220VAC grid power;
- \* 100% driven by solar energy during sunshine time;
- \* Maximum energy saving:100%;
- \* Super Luxurious appearance and LED display;
- \* Run smoothly at -10°C to +55°C;
- \* Multi-layer air filters;
- \* Low temperature and low current start;
- \* Easy use by remote controller.



### Parameters

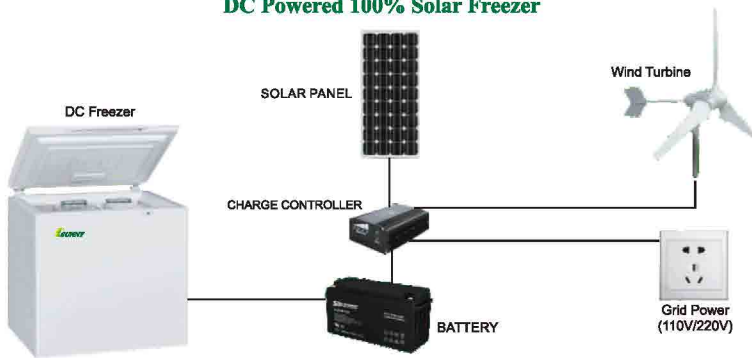
Model No.		KF(R)-26GW/ OG	KF(R)-35GW/OG	KF(R)-52GW/OG	KF(R)-60GW/OG	KF(R)-72GW/OG	
	Ton	0.75ton	1ton	1.5ton	1.8ton	2ton	
	HP	1HP	1.5HP	2HP	2.5HP	3HP	
Power Supply:208-240V,50/60HZ							
Performance							
Capacity	Cooling	Btu/h	9000	12000	18000	20000	24000
		W	2600	3500	5200	6000	7200
	Heating	Btu/h	10000	13000	20000	22000	27000
		W	2800	3700	5400	6600	7900
Noise	Indoor	dB(A)	≤40	≤42	≤44	≤45	≤46
	Outdoor	dB(A)	≤50	≤52	≤55	≤56	≤58
Air Circulation		m <sup>3</sup> /h	450	550	750	850	1050
Suitable Area		m <sup>2</sup>	10~15	12~25	20~35	22~40	25~45
EER		W/W	5.2	4.7	4.5	4.5	4.4
SEER		Btu/h/w	35	34	34	34	33
cop		W/W	5.8	5.2	4.9	4.9	4.8
scop		Btu/h/w	39	37	37	37	36
HSPF		Btu/h/w	12	12	13	14	14
Operating Range		C/F	16C-31C/5F-122F				
Design pressure		PSI	550 / 340				
Refrigerant Oil			VG74				
Refrigerant			R410A				
Compressor			TOSHIBA (ROTAY)				
Liquid side/ Gas side			1/4"/3/8"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"
DC Connection /Wire			MC4/AWG 10/12	MC4/AWG 10/12	MC4/AWG 10/12	MC4/AWG 10/12	MC4/AWG 10/12
Power Consumption							
Rated Power Input		W	450	750	950	1150	1250
Rated Current		A	2.05	3.41	4.32	5.61	5.68
MAX SOLAR PANELS			3x250W/36V	4x250W/36V	4x250W/36V	4x250W/36V	4x300W/36V

## 太阳能直流冷柜 Deep Chest DC Solar Freezer

### Features:

- \* DC12V/24V 36V inverter compressor energy saving low noise cooling quickly;
- \* Free of power cost,making contribution to environment;
- \* It can be used without electricity power;
- \* Fast freezing and Refrigerant:-22 to +10℃;
- \* DC12V/24V /36 V self-adaption

### DC Powered 100% Solar Freezer



### Parameters

Model	BD-115	BD-215	BD-315	BD-455
Power consumption	0.32kwh/day	0.36kwh/day	0.4kwh/day	0.4kwh/day
Input voltage	DC12/24V	DC12/24V	DC12/24V	DC12/24V
Refrigerantion	R134A	R134A	R134A	R134A
Freeze capacity	115L	215L	315L	455L
Cooing performance	-22℃	-22℃	-22℃	-22℃
Net size(mm)	580×555×850	906×555×850	1110*643*850	1280*735*850
Gross size(mm)	617×577×882	943×577×882	1147*670*882	1317*757*882
N.W. /G.W(KG)	27/30	42/46	46/52	66/72

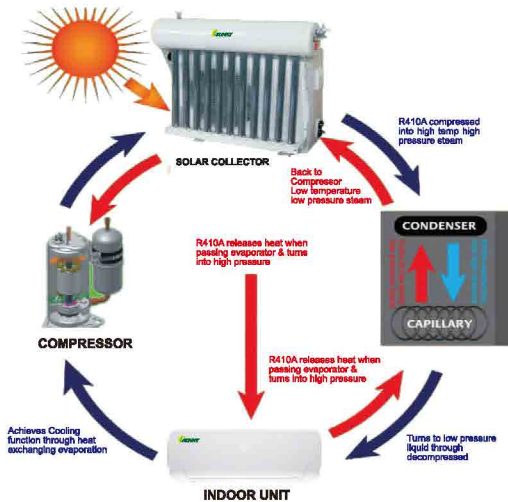
## 混合节能型太阳能空调 Hybrid Solar Air Conditioners

### Features:

1. High efficiently, 30-70% energy saving , comfortable and money saving, the SEER exceed to 6.5, all of the solar air conditioner is A++ or A+++.
2. Durable and long-lived, smooth running. Low-loaded operation of the compressor to extend its duration.
3. Healthy and comfortable, constant temperature and keeping air conditioner disease away.
4. Super luxurious appearance decorates your home. Indoor panel adopts aluminum alloy and wire drawing metal color board to make your house more sparkling.
5. Automatic open and close dust proof air outlet.
6. Easy installation, same as the traditional air conditioner.
7. With strong adaptability, our hybrid solar air conditioner can run at super low and high temperature from -7 to 53 ℃.
8. Exceeding the national standards and applicable to all kinds of environment.



## 混合节能型太阳能空调工作原理 Hybrid Solar Air Conditioner Work Principle



Blue: Cooling cycle Red: Heating cycle

## 分体壁挂式混合太阳能空调

### Wall Mounted Type Hybrid Solar Air Conditioner

#### Parameters

Model No.		TKF(R)-26GWA	TKF(R)-32GWA	TKF(R)-35GWA	TKF(R)-52GWA	TKF(R)-60GWA	TKF(R)-72GWA	TKF(R)-100GWA	
		1HP	1.25HP	1.5HP	2HP	2.5HP	3HP	4HP	
		0.75TON	0.9TON	1TON	1.5TON	1.8TON	2TON	3TON	
Power Supply:220-240VAC, 1PH, 50/60Hz									
Performance									
Capacity	Cooling	Btu/h	9000	11500	12000	18000	20000	24000	36000
		W	2600	3200	3500	5200	6000	7200	10000
	Heating	Btu/h	10000	12000	13000	20000	22000	27000	40000
		W	2900	3500	3800	6000	6600	7900	11000
Noise	Indoor	dB(A)	≤40	≤42	≤42	≤44	≤46	≤50	≤52
	Outdoor	dB(A)	≤50	≤52	≤52	≤54	≤56	≤58	≤60
Air Circulation		m <sup>3</sup> /h	500	520	550	800	850	1150	1350
Suitable Area		m <sup>2</sup>	11~17	13~21	15~23	26~36	25~42	30~48	40~60
EER		W/W	3.84	3.72	3.89	3.83	3.88	3.82	3.82
		Btu/h/w	12.42	12.69	13.27	13.07	13.24	13.03	13.03
Power Consumption									
Power Input	Cooling	W	650~770	780~940	800~1025	1100~1300	1350~1560	1700~1900	2400~2640
	Heating	W	650~780	780~950	800~1050	1150~1350	1350~1590	1700~1950	2470~2650
Rated Current	Cooling	A	3.00~3.60	3.55~4.27	3.70~4.80	6.30~7.30	6.30~7.30	8.00~8.90	10.91~11.95
	Heating	A	3.00~3.65	3.55~4.31	3.70~4.90	6.30~7.50	6.30~7.50	8.00~8.90	11.23~12.05

## 混合式太阳能空调天花机

### Cassette Type Hybrid Solar Air Conditioner

#### Parameters

Model No.		TKF(R)-60QW	TKF(R)-72QW	TKF(R)-100QW	TKF(R)-120QW	TKF(R)-140QW	
Power Supply:220-240VAC, 1PH, 50/60Hz							
Performance							
Capacity	Cooling	Btu/h	20000	24000	36000	41000	48000
		W	6000	7200	10000	12000	14000
	Heating	Btu/h	22000+1700	27000+1700	40000+1700	46000+1700	55000+1700
		W	6600+500	7900+500	12000+500	14000+500	16000+500
Noise	Indoor	dB(A)	≤45	≤49	≤49	≤50	≤50
	Outdoor	dB(A)	≤56	≤58	≤58	≤60	≤60
Air Circulation		m <sup>3</sup> /h	800	1250	1700	1800	1900
Suitable Area		m <sup>2</sup>	25~42	30~48	42~67	50~80	58~93
EER		W/W	3.88	3.82	3.87	3.96	3.87
		Btu/h/w	13.24	13.03	13.2	13.51	13.2
Power Consumption							
Power Input	Cooling	W	1350~1560	1700~1900	2400~2640	2900~3150	3500~3740
	Heating	W	1350~1590+500	1700~1950+500	2470~2650+500	2900~3180+500	3500~3760+500
Rated Current	Cooling	A	6.14~7.09	7.73~8.64	10.91~11.95	13.18~14.32	15.91~17
	Heating	A	6.14~7.23+2.2	7.73~8.66+2.2	11.23~12.05+2.2	13.18~14.45+2.2	15.91~17.09+2.2
Vacuum Tube	Diameter×Length×Pcs	47mm×620mm×11	47mm×620mm×11	47mm×620mm×11	47mm×1200mm×13	47mm×1200mm×13	



**宁波福优索尼光伏科技有限公司**  
**Ningbo4USUNNYPhotoelectric Tech.C**

Tel:+86 18758372261

Fax:0086-574-86881658

Add:NO.8XuriRoad, Leidian County, Huzhou City, Zhejiang Province, China

Branch:NO.548, Mingzhou West Road, Ningbo City, Zhejiang Province, China

Email:sales01@solarelectricalappliance.cn

www.solarelectricalappliance.com

