

# Solar Air Conditioner Catalog



## Solar Air Conditioner

**Features:**

- \* Work voltage from DV42V to DC60V;
- \* 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.



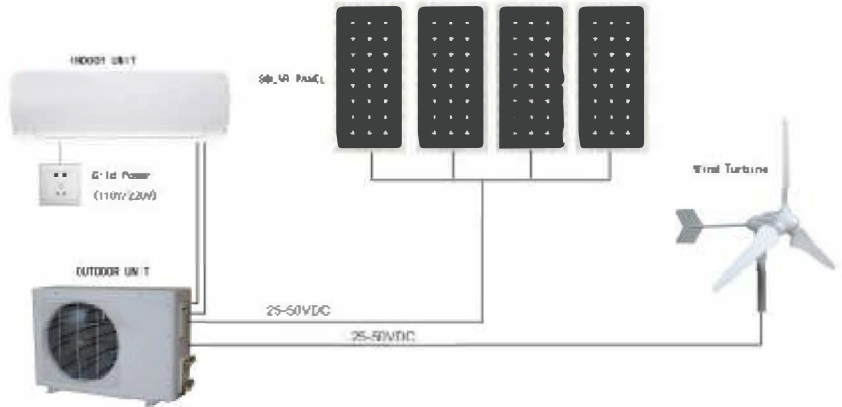
**Parameters**

			0.75HP	1HP	1.5HP	2HP	2.5HP	3HP
			0.5ton	0.75ton	1ton	1.5ton	1.8ton	2ton
<b>Power Consumption</b>								
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	m <sup>3</sup> /h		400	450	550	650	850	1050
Suitable Area	m <sup>2</sup>		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
<b>Power Consumption</b>								
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

# 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

			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		m³/h	450	550	750	850	1050
Suitable Area		m²	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