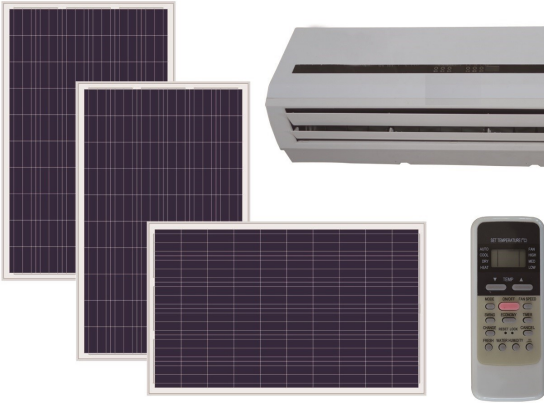


Solar Air Conditioner

Solar Hybrid Type
 96% Power from Solar
 Connect 2-8PCS Solar PV Panel (Max 2000W)
 Runs on solar power & 220/110VAC Power
 9000BTU / 12000BTU / 18000BTU
 Built-in converter panel
 No Inverter, controller & batteries Required



Keep room comfortable with for little pennies cost when whole day sunshine, cooling room up to 30 m². This **AB PVS** unit install very simple, just like normal split wall mounted air conditioner. Connect solar PV panels directly to the AC unit by standard MC4 solar connector .

Like all air conditioner , the **AB PVS** runs on the basis of AC power , But this **AB PVS** special solar air conditioner can also accept DC power directly from solar PV panels, do not need connect with any external Inverter, controller, or batteries. The solar DC power directly replace an equivalent amount of AC power from city power company. It can cut down daytime energy cost for running air conditioner more than 96% when sunlight irradiance meet to 800w/ m².

During day time, the **AB PVS** can get mostly power from solar energy, the unit can be connect with 2 to 8PCS 250W solar PV panel up to total max 2000Watts. This system is designed for hybrid operation by solar providing most of the energy needed during daytime. The **AB PVS** must be connected to a 220/110VAC city power grid. This not designed for off-grid operation .

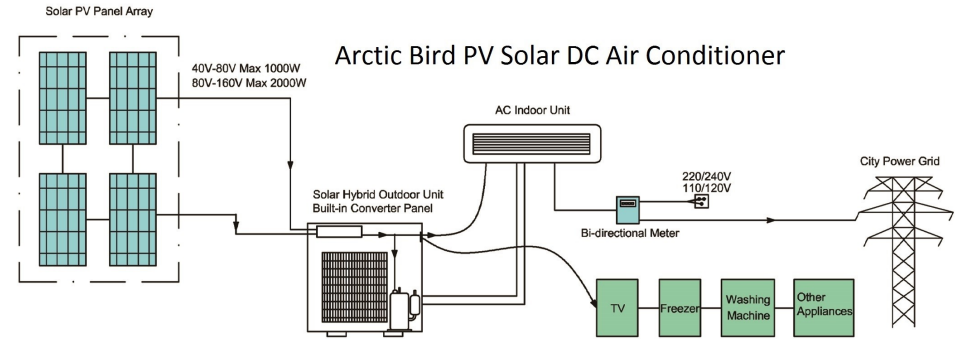
Biggest Advanttage

AB PVS uses as much solar energy as is available, make the air conditioner cost as pennies daytime and any running power shortfall is obtained from utility power with no need any batteries , built-in converter panel will switch and balance DC&AC automatically when sun enough or not.

AB PVS not only acting on air conditioner , also help user earn & save much money : If user home installed the Bi-directional meter, the user can choose sell the power from solar PV panel to city power grid, or let other electrical appliances (freezer , wash machine, TV, computer etc.) using solar PV power when air conditioner no need operation in the daytime .

So the solar PV panel Power no any waste though air conditioner not open or just operation some hours in the daytime. This **AB PVS** make the solar power be effective used in large extent and bring you biggest benefit .

Solar Air Conditioner



Working principle :

AB PVS DC directly transform solar energy into built-in solar energy converter panel ,without change the indoor unit .

AB PVS DC accept 2-8PCS solar PV panel series or parallel connection to produce high DC voltage, and then by the outdoor unit built-in solar converter panel transform into 220V/110V AC current , same as city power voltage / current together supply the power for air conditioner & others home electrical appliances operation.

Model No.	Arctic Bird PVS9	Arctic Bird PVS12	Arctic Bird PVS18
Cooling Capacity (Btu/h)	9000	12000	18000
Rated Cooling Capacity (W)	2600	3500	5200
Rated Heating Capacity (W)	2990	4025	5980
Rated Cooling Input Power (W)	690	986	1565
Rated Heating Input Power (W)	794	1134	1800
Maximum Input Power (W)	873	1247	1980
Maximum Output Current (A)	4	5.7	9
EER	3.71	3.54	3.33
DC Solar Power Supply (Max.)	Converter 1	40V-80V , Max 1000W, converter panel produce current 5A	
	Converter 2	80V-160V , Max 2000W, converter panel produce current 10A	
Power Supply AC	220V/50Hz/1Ph	220V/50Hz/1Ph	220V/50Hz/1Ph
Suitable Room Area (m ²)	≤13	≤18	≤26
Electric Shock Protection Grade	I	I	I
Outdoor unit protection class	IPX4	IPX4	IPX4
Compressor Name Brand	GMCC /1	GMCC /1	GMCC /1
Refrigerant R410A (g)	880	1150	1350
Outdoor Unit Noise	≤50 dB(A)		≤52 dB(A)
Indoor Unit Noise	≤40 dB(A)		≤43 dB(A)
Circulating Wind Rate (m ³ /h)	550	640	790
Outdoor Unit Dimensions	740×270×840	740×270×840	800×280×540
Outdoor Unit Weight (Kg)	35	43	52
Indoor Unit Dimensions (mm)	790×196×275	790×196×275	930×198×275
Indoor Unit Weight (Kg)	9	10	12