



**Changing Lives &
Making a Difference**

What is solar air conditioner?

This solar conditioner works like conventional air conditioner. The two major differences are: existing AC uses only electricity grid and existing AC takes high wattage to run where as solar AC is designed such that it takes very low wattage. "Solar Air Conditioner" has three options -1 Solar Power, 2nd Battery Bank 3d Electricity Grid & 4th Normal Inverter: Solar AC the MGM Technology (Compressor) works like an Accelerator in a car. When Compressor needs more power, it gives more power. When it needs less power, it gives less power. With this technology, the compressor is always on, but draws less power or more power depending on the temperature of the incoming air and the level set in the thermostat. The speed and power of the compressor is adjusted appropriately. This technology is currently available only in split air conditioner.

What are the benefits of Solar Air Conditioner?

This Air Conditioner will run continuously but will draw only that much power that is required to keep the temperature stable at the level desired. So it automatically adjusts its capacity based on the requirement of the room it is cooling. Thus drawing much less power and consuming lesser units of electricity.

'E' Model

This solar air conditioner is cost "E"ffective as no solar panels are required to run this air conditioner. This solar air conditioner can be run directly to 220 V AC and can save up to 80% electricity Bill.

"S" Model

This Solar air conditioner can run directly on direct current (DC) or directly through "S"olar PV Module. This solar air conditioner can run directly through solar panels in Day time and on battery in Night time. This is a hybrid solar air conditioner which can run on solar panels, Inverter battery and 240V AC or DC.

Difference between regular air conditioner and solar air conditioner

	REGULAR AIR CONDITIONER	SOLAR AIR CONDITIONER
Wattage	2000watt	800watt
Starting Load	3500watt	100watt
Running Amp	7 to 9Amp	2 to 4.5 Amp
Electric Saving	-----	up to 80%
Jerk Load	Higt jerk	No Jerk
Compressor	Rotary/Hermetic	BLDCMGM
Direct Solar	N.A	240VOC
Solar Compatibility	5kwatt solar plant with inverter & Battery	Direct solar panel compatible with 2500VA inverter Battery
Unit Consumption on Electricity (per 10 hrs)	17 - 20 Units	5 to 7 Units

"This Solar air conditioner is tested by electronics and quality development Centre (Govt. of India)

Technical Data Sheet

SI No.	Specification Model	READY GO Series	Ayurveda Series	Hot&Cold Series	Magic - cool Series
	Cooling Capacity BTU	13500-17000	13500-17000	13500-17000	13500-17000
	Capacity(Ton)	1.5Ton	1.5Ton	1.5Ton	1.5Ton*
	Starting Current Amp	0.5	0.5	0.5	0.5
	Running Current Amp	Min.0.8-Max.4.5	Min.0.8-Max.4.5	Min.0.8-Max.4.5	Min 0.8Max 4.5
	Air Flow	424/519	424/750	424/750	424/750
	Refrigerant	R410/R32	R410/R32	R410/R32	R410/R32
	Per Hour Unit Consumption	0.5/0.8 unit	0.5/0.8unit	0.5/0.8unit	0.5/0.8unit
	Compressor	Magnetic/Vibratic(BLDC)	Magnetic/ Vibratic(BLDC)	Magnetic/Vibratic(BLDC)	Magnetic/Vibratic(BLDC)
	Electricity Saving Comparison to other AC	Upto 80%	Upto 80%	Upto 80%	Upto 80%
	Power Input :AC Power Input :DC DC Current Rating	190V-250V AC 180Voc-280Voc 8-9AMP	190V-250V AC	190V-250V AC	190V-250V AC
	Sound Level(H/M/L)	43/39/35	38/34/31	38/34/31	38/34/31
	Indoor unit Dimension	918x278x364mm	895x360x295mm	985x368x260mm	920x370x282mm
	Net Weight	12.9kg	10.9kg	14.1kg	13.1kg
	Outdoor Unit Dimention	878x630x360mm	915x600x350	900x600x360mm	850x620x370mm
	Net Weight	32.9kg	33kg	31kg	28.6kg
	Noise Level	30dB	33dB	33dB	33dB
	Power Source Rating MCB	6A	6A	6A	6A
	Power Supply TO	Indoor	Indoor	Indoor	Indoor
	Ref. max Piping Length	15ft.	15ft.	15ft.	15ft.
	Air Filter	N.A	3Stage Neem	N.A	N.A

*Capacity 2.0 Ton & 2.5 Ton also available.

Saving Calculations

Air Conditioner Types			SinFin 1.5 Ton ('E' Model)	1.5 Ton (5Star Inverter)	1.5 Ton (3 Star Inverter)
Per Hr Consumption			0.8	1.92	3
Running Hrs	Day	Night			
8	0	8	6.4 Unit	15.36 Unit	23.68 Unit
12	4	8	9.6 Unit	23.04 Unit	35.52 Unit
16	8	8	12.8Unit	30.72 Unit	47.36 Unit
Savings in Percentage by using SINFN Solar AC				85%	73%

BLDC
TECHNOLOGY

100%
COPPER

STABILIZER
FREE OPERATION

SOLAR PCU
COMPATIBLE

INVERTER
BATTERY COMPATIBLE



SAMMAGRA ENERGEIA SOLUTIONS PVT LTD

68, Saptagiri Layout, Doddabidarakallu, Nagasandra, Bengaluru, Karnataka 560073

+91 8660 390 654 / + 91 8660 390 655