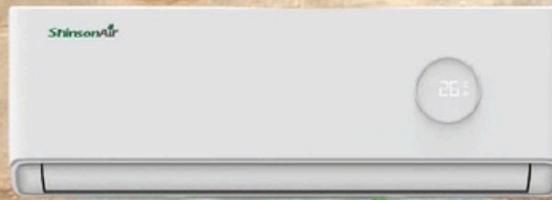


ShinsonAir

ShinsonAir Product Catalog 2025~2026



- Solar Air Conditioner
- Solar Heat Pump



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tuya[®]

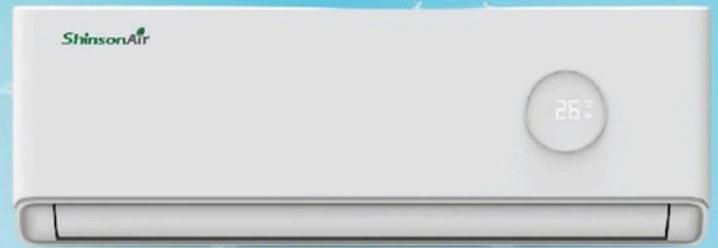
TUYA SMART CONTROL



Hybrid Solar Air Conditioner

Solar ACDC hybrid solar air conditioners require no batteries, and only a few PV panels to deliver huge savings. During the day, when air conditioning is needed the most, you can operate this unit partly or up to 100% by its independent solar panels to achieve Maximum efficiency. At night, you can continue to save due to its high efficiency.

The WIFI functionality allows full control, daily and weekly timers, complete visibility with AC and DC consumption and the history of all power consumption



100% Energy Saving

Up to 100% Savings during the day time



Wide Operating

Temperature Range between -10°C to +58°C (T3)



Savings

No Inverter, Battery, or Charge controller needed



Auto Balance

AC/DC auto balance

Features

- Efficient brushless DC permanent magnet variable frequency twin rotary compressors
- AC Limiter will limit the AC consumption to 100W when DC power is available and slightly more when there is no DC.
- Anti-Corrosion Technology giving greater corrosion resistance for both outdoor and indoor units.
- Can run directly on 100% solar power during the daytime.
- Wide ambient operating temperature range: -10°C to +58°C.
- M4 Solar connector terminals - Easy plug and play connection and maintenance.
- Eco-Friendly R32 Refrigerant.
- Quiet indoor Unit (As low as 26dB).
- Low energy consumption.

Technical Specifications (Hybrid)



Mesh Black

White

Shinson Model			SAH-12K-R	SAH-18K-R	SAH-24K-R
Max electric peak current		A	15	15	15
Power Supply	Rated Voltage	V~	208-240(115)	208-240(115)	208-240(115)
	Rated Frequency	Hz	50/60	50/60	50/60
	Solar DC	V	80-350	80-350	80-350
	MinMax Voltage	V~	150/265	150/265	150/265
Solar DC Current	Max Current	A	15	15	15
Rated Current	Cooling Rate Current(T1)	A	3.85	5.88	8.73
	Cooling Rate Current (T3)	A	4.48	6.68	9.45
	Heating Rate Current	A	4.02	5.80	8.91
Rated Power	Cooling Rate Power (T1)	W	860	1340	1920
	Cooling Rate Power (T3)	W	963	1460	2060
	Heating Rate Power	W	905	1320	1960
Min. Power Input		W	180	220	280
Max. Power Input		W	1500	1900	2700
Cooling Capacity(T1)		W	3500	5000	7020
		Btu/h	12000	18000	24000
Cooling Capacity(T3)		W	2800	4030	5660
		Btu/h	9600	13800	19400
Min Cooling Capacity		W	1300	1700	2100
		Btu/h	4500	5800	7150
Max Cooling Capacity		W	3950	5450	7800
		Btu/h	13500	18600	26668
Heating Capacity		W	3500	5250	7050
		Btu/h	12050	1800	24000
Min Heating Capacity		W	1130	1310	1400
		Btu/h	3850	4500	4777
Max Heating Capacity		W	4300	5800	8600
		Btu/h	14600	19600	29343
EER		W/W	4.02	3.74	3.76
		Btu/W	13.74	12.79	12.86
SEER		Btu/W	23.00	21.00	20.00
COP		W/W	3.87	4.01	3.75
		Btu/W	13.34	13.70	12.80
HSPF		Btu/W	9.70	9.55	9.60
Application Area		m2	14~24	21~30	30~45

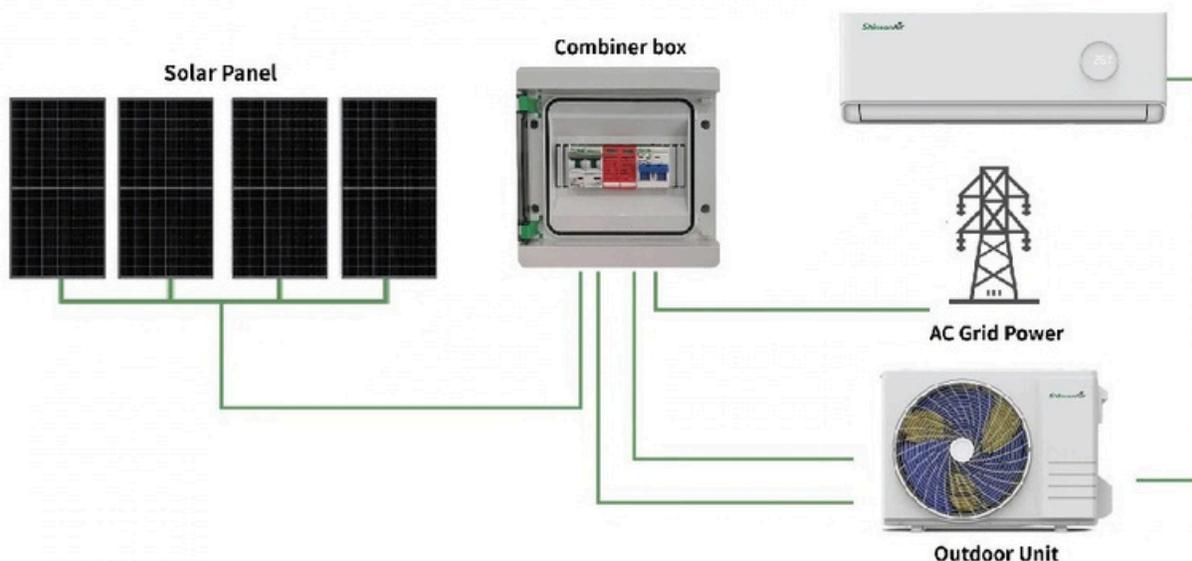
Multiple Working Diagrams

SOLAR ONLY (HYBRID AIR CONDITIONER)



The solar only operation requires only solar panels on the DC input side. The connection of the solar panels must absolutely be in series and must be from 80V to 350V. This setup runs only when there is sun. During cloudy or rainy periods, the unit can have a lower output. During the night, the unit won't work.

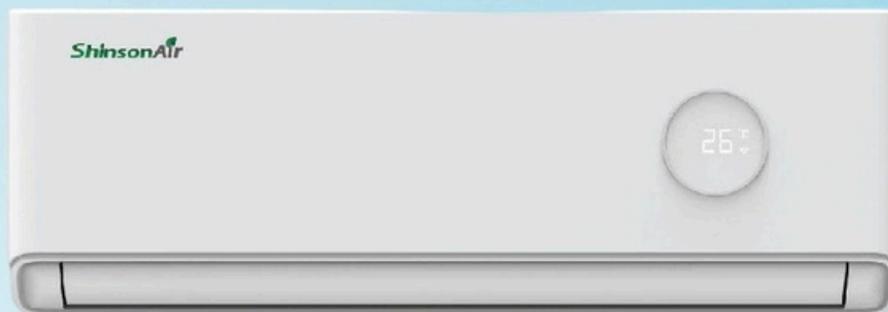
SOLAR + GRID (HYBRID AIR CONDITIONER)



The hybrid installation requires only solar panels and a public electrical grid. The solar panels power the AC units during sunny periods and the grid fills in the gaps when needed. A minimum of 80V and a maximum of 350V of solar panels are required on the DC input side. The connection of the solar panels must absolutely be in series. On the AC side of the unit, the 110V/220Vac public electricity network must be connected. The grid will provide power during night.

Off-Grid Solar Air Conditioner

Solar Off Grid with batteries storage solar air conditioner is ideal for places with no power grid or power stability issues, particularly for remote telecom stations, container houses, motor homes, remote locations, load shedding places, boating and island locations. As the latest advanced of our technology, this solar air conditioner can use 100% solar power.



100%

100% off Grid



Battery

Battery Powered



MaX SEER35

DC-driven



**Wide operating
Temperature**

Temperature Range
between -10°C to +58°C

Features

- High-SEER Brushless inverter DC permanent magnet compressors
- Fast Cooling around 30s / Powerful heating within 1minute
- Wide operating temperature range: -10°C to + 58°C
- Anti-Corrosion Technology giving greater corrosion resistance for both
- Outdoor and indoor unit
- Eco-Friendly R32 Refrigerant
- Low energy consumption
- Quiet Indoor and Outdoor Unit (As Low As 26dB)
- 100% Off Grid

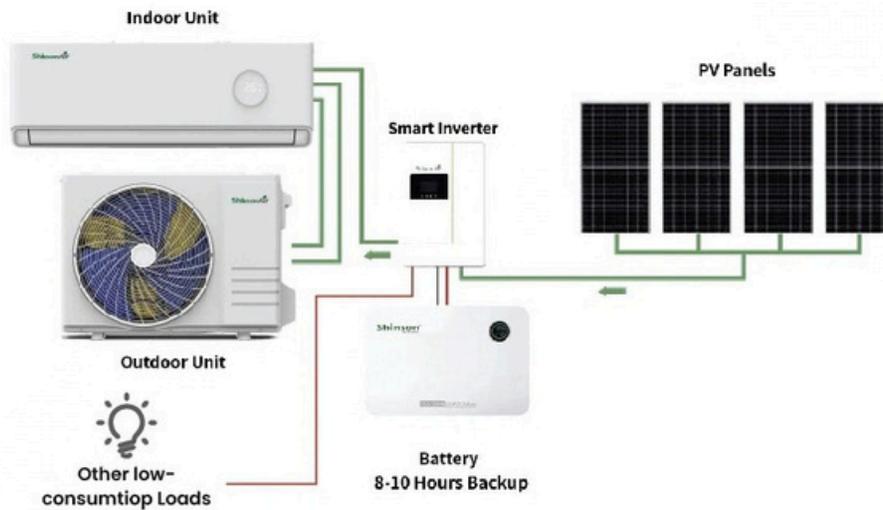
Technical Specifications (Off-Grid)



Shinson Model			SAF-12K-RO	SAF-18K-RO	SAF-24K-RO
Max electric peak current		A	15	15	15
Power Supply	Rated Voltage	V~	208-240	208-240	208-240
	Rated Frequency	Hz	50/60	50/60	50/60
	MinMax Voltage	V~	42/58	42/58	42/58
Solar DC Current	Max Current	A	25	35	50
Rated Current	Cooling Rate Current(T1)	A	19.00	28.00	40.00
	Cooling Rate Current (T3)	A	22.00	31.00	43.00
Rated Power	Heating Rate Current	A	20.00	28.00	41.00
	Cooling Rate Power (T1)	W	860	1340	1920
	Cooling Rate Power (T3)	W	963	1460	2060
	Heating Rate Power	W	905	1320	1960
	Min. Power Input	W	180	220	280
	Max. Power Input	W	1350	1650	2350
Cooling Capacity(T1)		W	3500	5000	7020
		Btu/h	12000	18000	24000
Cooling Capacity(T3)		W	2800	4030	5660
		Btu/h	9600	13800	19400
Min Cooling Capacity		W	1300	1700	2100
		Btu/h	4500	5800	7150
Max Cooling Capacity		W	3950	5450	7800
		Btu/h	13500	18600	26668
Heating Capacity		W	3500	5250	7050
		Btu/h	12050	1800	24000
Min Heating Capacity		W	1130	1310	1400
		Btu/h	3850	4500	4777
Max Heating Capacity		W	4300	5800	8600
		Btu/h	14600	19600	29343
EER		W/W	4.02	3.74	3.76
		Btu/W	13.74	12.79	12.86
SEER		Btu/W	23.00	21.00	20.00
COP		W/W	3.87	4.01	3.75
		Btu/W	13.34	13.70	12.80
HSPF		Btu/W	9.70	9.55	9.60
Application Area		m2	14~24	21~30	30~45

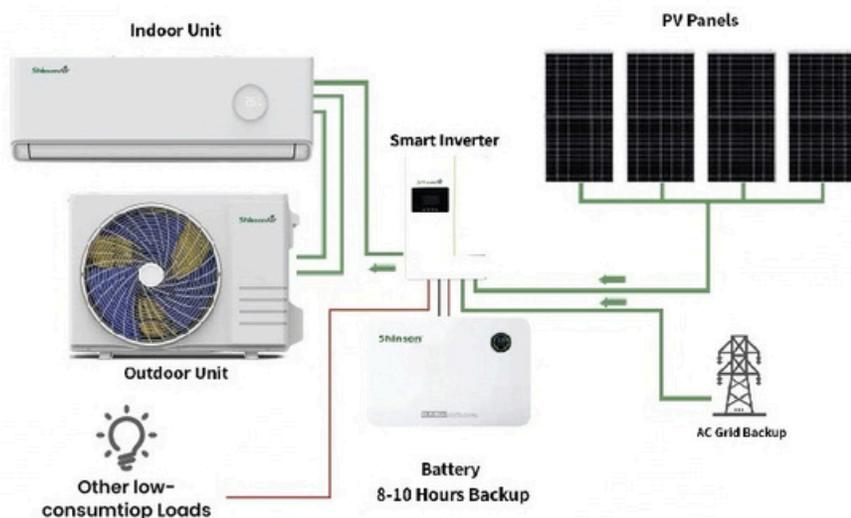
Off Grid Working Diagram

Solar + Smart Inverter+ Batteries (No Grid or weak Grid)



This off-grid solar air conditioning system consists of Shinson solar PV panels, smart inverters, and batteries. During the day, the solar panels power the air conditioner while simultaneously charging the batteries. At night, the stored energy in the batteries supplies power to the air conditioner. The Shinson smart inverter and battery system optimize energy management for maximum efficiency, ensuring up to 8–10 hours of reliable nighttime backup. In addition, the smart inverter can also power other low-consumption appliances such as LED lights, televisions, and refrigerators.

Solar + Smart Inverter+ Batteries+ Grid (With Grid)



This off-grid solar air conditioning system consists of Shinson solar PV panels, smart inverters, and batteries. During the day, the solar panels power the air conditioner while simultaneously charging the batteries. At night, the stored energy in the batteries provides power to the air conditioner. When there are continuous rainy or cloudy days and solar generation is insufficient, the grid can serve as a backup power source to recharge the batteries. The Shinson smart inverter and battery system intelligently manage energy flow with maximum efficiency, ensuring 8–10 hours of reliable nighttime operation. Additionally, the smart inverter can also supply power to other low-consumption appliances such as LED lights, televisions, and refrigerators.

ShinsonAir

Hybrid Solar Air Conditioner Window type



100% Energy Saving

Up to 100% Savings during the day time



Wide Operating

Temperature Range between -10°C to +58°C (T3)



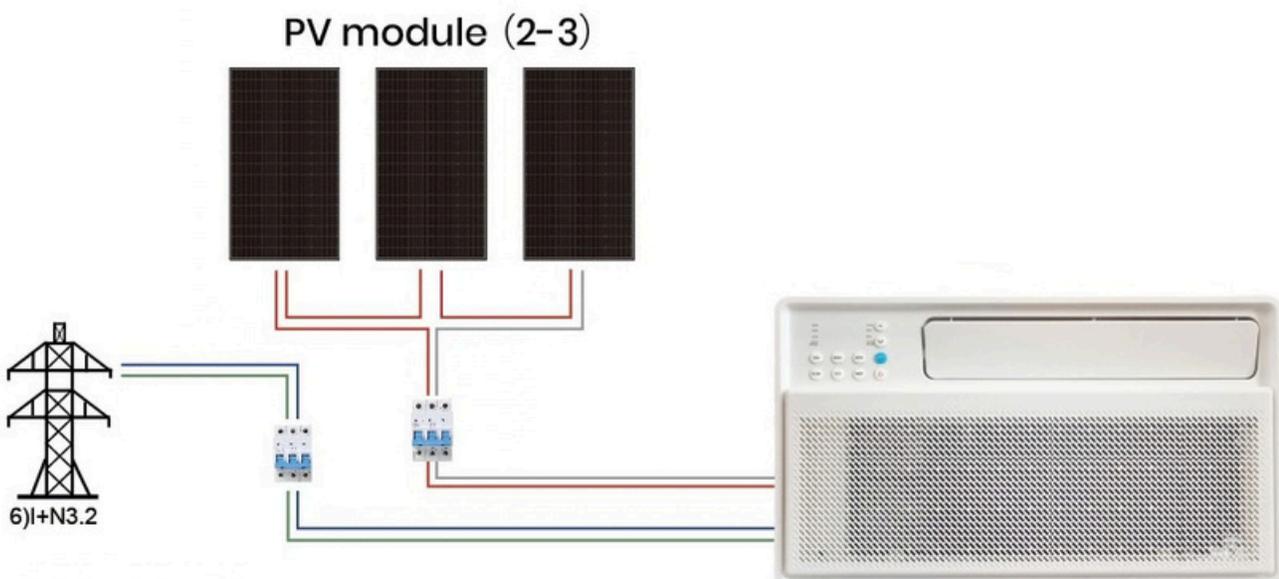
Savings

No Inverter, Battery, or Charge controller needed



Auto Balance

AC/DC auto balance



Working Diagram

Technical Specification (Hybrid Wind Type)

Model			SAH-12K-H
AC input		ph-V-Hz	1 Ph, 115v~/240V~
PV input			1 Ph, DC 80-350V
Cooling	RATED Capacity	Btu/h	12000
	RATED CEER	3tu/w.h,w/w	15.0
	RATED Input	W	1190
	RATED Current	A	12.0
	Cooling Current	A	10.3/4.95
	Standby power	W	1.1
Estimated Yearly Energy Cost			61
Moisture Removal		L/h	1.75
Max. input consumption		W	1280
Max. current		A	12.5
Refrigerant type (R32)		g	330
Refrigerant type (R32)		ozs	11.64
Maximum pressure(145psi=1MPa)(H/L)		psi	915/435(6.3/3.0MPa)
Indoor air flow (Hi/Med/Lo)		m3/h	450/330/250
	1 m3/h = 0.588 ft3/min	CFM	265/195/147
Indoor noise level	Cooling(Hi/Med/Lo/Mute)	dB(A)	55/49/42/42
	Fan Only(Hi/Med/Lo/Mute)	dB(A)	54/46/40/38
Outdoor air flow (Hi/Med/Lo) m3/h		m3/h	730/610/500
1 m3/h = 0.588 ft3/min		ft3/min	430/359/294
Outdoor noise level (Hi/Med/Lo) dB(A)		dB(A)	61/56/48
Plug type			14#x3 / LCDI
Plug Face NEMA#			5-15P
Power Cord Length		mm	1980
Power Cord Length		ft	6.5
Control type			Remote Control
Operation temp	indoor (cooling/heating)	°C	16-31/--
	outdoor (cooling/heating)	°C	18-43/--
Dimension(W*D*H)		mm	525X489X340
Packing (W*D*H) 1A package		mm	615X520X375
Packing (W*D*H)6A package		mm	615x525x410
Net weight		Kg	26.6
Gross weight 1A package		Kg	28.5
Gross weight 6A package		Kg	29.5
Loading quantity 20'/40'/40'HQ 1A package		Pieces	226/490/570
Stacking layers			8
Window Opening	Width(Min/Max)(Inches)	mm	610/915
	Height(Min)(Inches)	mm	368

SOLAR HYBRID HEAT PUMP



SOLAR DC Direct Driven



Saving up to 90% of Electricity



Auto Grid balance to ensure the performance



Cut your gasbill and save money



Heating, Cooling and Hot water



ShinsonAir

1 Eco-Friendly Solar Heat Pump System

Harness the power of the sun with our innovative solar heat pump system. Powered directly by solar panels and intelligently balanced with AC grid power, it reduces electricity consumption by over 90%. You can max use of your exist solar panels on your roof.

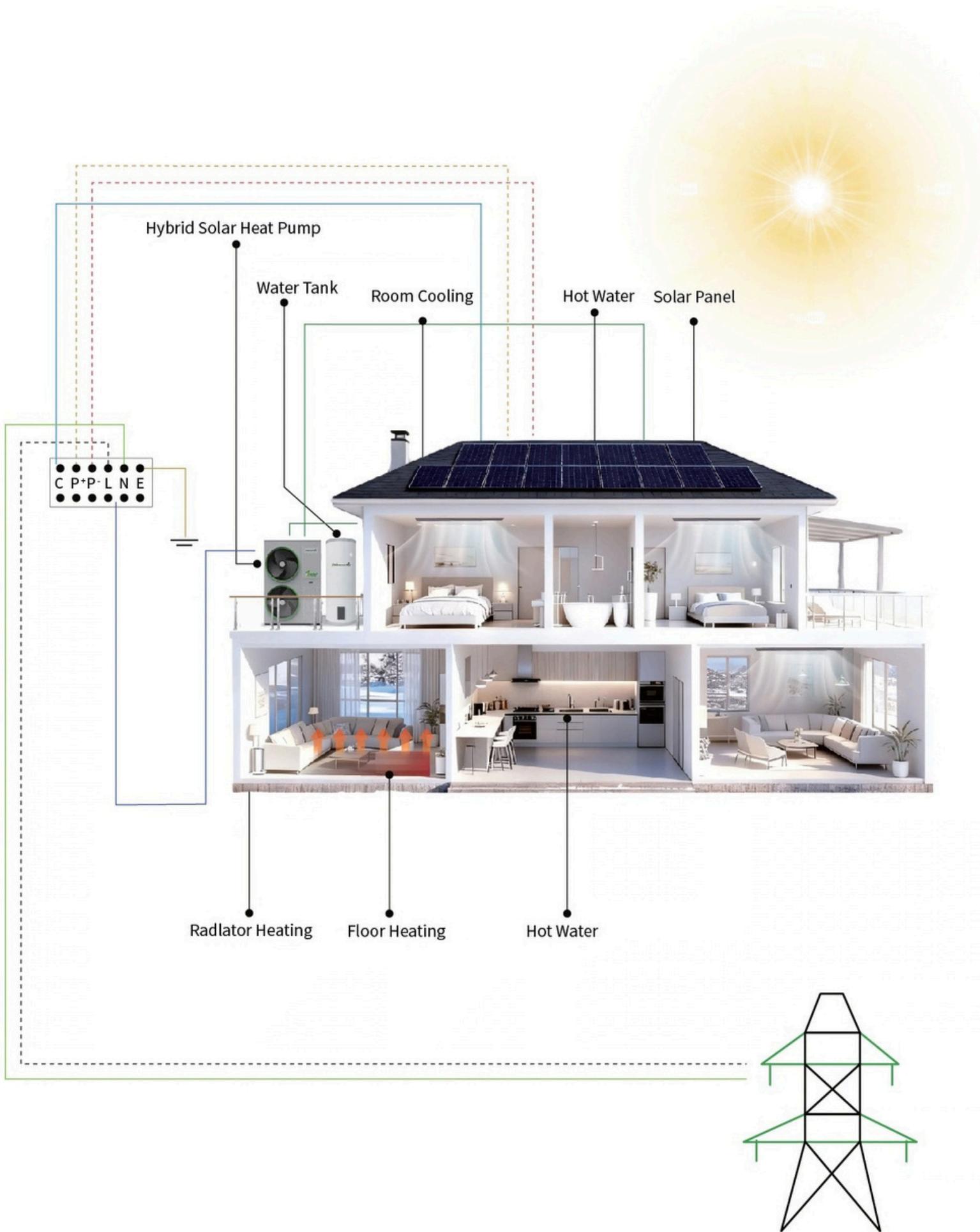
2 Cost-Effective & Gas-Free Heating Solution

Our solar heat pump system is the ultimate replacement for traditional gas burner stoves. Achieve independence from gas and reduce your energy bills .

3 Complete Renewable Climate Control System (Heating,Cooling and hot water)

Experience the future of home comfort with our solar heat pump system. It efficiently utilizes solar energy, automatically balancing with the power grid to deliver significant electricity savings. Transition to a gas-free lifestyle, cut costs, and enjoy reliable heating, cooling, and hot water—all from a single, eco-conscious solution to make your house 100% Green.

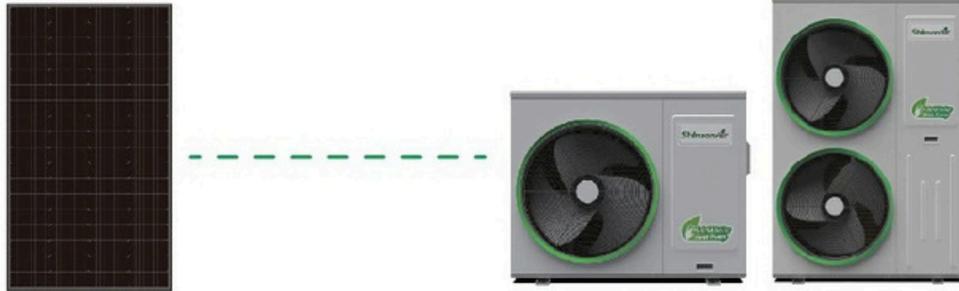




Technical Specifications

Hybrid SOLAR

Monobloc Heat Pump(Residential Use)



Model		KFV240-B/H	KFV480-B/H	KFV480-B/3H	KFV640-B/H	
Electricity Consumption	W	8-2500	8-5500	8-5500	108-8500	
Solar PV Max Voltage	V	340	340	560	560	
Solar PV Power	KW	4.5	6	6	9	
Max Heating Capacity	KW	12.6	23	23.2	28.5	
Heating Capacity Range	KW	4.2-12.6	8-23	8.1-23.2	10-28.5	
Heating (A7/W35)	Capacity	KW	10.5	19	19.3	25
	Input Power	KW	2.28	4.04	4.02	5.32
	Current	A	10.9	19.3	7.2	9.5
	COP		4.6	4.7	4.8	4.7
Heating (A7/W45)	Capacity	KW	10.3	18.2	18.6	24.3
	Input Power	KW	2.63	4.63	4.72	6.15
	Current	A	12.6	22.2	8.4	11.0
	COP		3.92	3.93	3.94	3.95
Cooling(A35/W7)	Capacity	KW	7.8	15.2	15.5	20.5
	Input Power	KW	2.68	5.21	5.22	6.95
	Current	A	12.8	24.9	9.3	12.4
	EER		2.91	2.92	2.97	2.95
Power Supply		220V-230V/1PH		380V-415V/3PH		
Frequency Range	Hz	30-85	30-85	30-85	30-85	
ERP(35°C)		A+++	A+++	A+++	A+++	
ERP(55°C)		A++	A++	A++	A++	
Heating output water temp	°C	25-60				
Cooling output water temp	°C	5-20				
Refrigerant		R32/R410A				
Controller		LCD wire controller				
Compressor	Brand	Panasonic				
	Type	DC Inverter Twin Rotary				
Fan motor	Type	DC Inverter				
	PC	1	2	3	4	
Evaporator	Type	Hydrophilic Aluminum Fin Heat Exchanger				
Water side heat exchanger	Brand	SWEP				
	Type	Plate Heat Exchanger				
	Pressur Drop	kPa	15	15	25	30
Throttle unit		Hydrophilic Aluminum Fin Heat Exchanger				
Water pump (Built-in)	Brand	SWEP				
	Type	Plate Heat Exchanger				
	Head	m	8	8	8	10
Ambient Temp range	°C	-30-45				
Electric heater(Built- in)	Kw	2	3	3	3	
Expansion tank(Built-in)	L	3	5	5	5	
Water flow	m3/h	1.8	3.3	3.3	4.3	
Pipe size		DN25	DN32	DN32	DN32	
Noise	dB(A)	≤58	≤63	≤63	≤65	
Dimension	mm	1160x390x860	1060x390x1360	1060x390x1360	1060x390x1560	
Weight	kg	90	140	145	170	

Hybrid Solar Heat Pump (Commercial Use)



Heat & Cooling Side- discharge

Model		LSQS58R2/BP-CP	LSQS62R2/BP-CP	LSQS76R2/BP-CP
Power	AC Grid input	380V, 50/60Hz	380V, 50/60Hz	380V, 50/60Hz
	AC Max input Power(KW)	19	23	25
	AC Max input Current(A)	29	35	38
	Solar DC input range(V)	200~560	200~560	200~560
	Recommended PV power(KW)	20	24	26
	PV Max input Current(A)	15A*2	15A*2	15A*2
Heat	Rated heating Capacity(KW)	64.3	75.9	86.5
	Rated heating Capacity (Btu)	219842	259502	295744
	Rated heating Power(KW)	17.49	20.82	24.51
	COPH at rated heating (W/W)	3.68	3.65	3.53
Cool	Rated cooling Capacity(KW)	41.8	45.2	46.5
	Rated cooling Capacity (Btu)	142914	154539	158984
	Max power at rated cooling(kW)	14.67	16.03	16.56
	COpc at rated cooling(W/W)	2.85	2.82	2.81
Compressor	Type	EVI DC inverter	EVI DC inverter	EVI DC inverter
	Refrigerant	R410/R32	R410/R32	R410/R32
	Number	2	2	2
Fan motor	Power	20 ~ 85W	20 ~ 85W	20 ~ 85W
	No. of Fan	4	4	4
Outdoor Unit flow type		Side discharge	Side discharge	Side discharge
Indoor Side	Heat Exchange type	tank heat exchanger	tank heat exchanger	tank heat exchanger
	Water Pressure Drop(Kpa)	≤50	≤50	≤50
Other	Water flow(m ³ /Hour)	10.6	13.1	14.8
	Water pipe	DN50	DN50	DN65
	Size of outdoor unit (L x W xH)(mm)	1730x805x2375	1730x805x2375	1730x805x2375
	Nosie range(dB)	≤67	≤68	≤69
	Weight of outdoor Unit(Kg)	450	470	480

**Rated Capcacity Conditions:

Heating : outdoor design dry-bulb temperature at -12 °C, outdoor design wet-bulb temperature at -12 °C, Aircon outlet temperature at 41 °C.
Cooling: outdoor design dry-bulb temperature at 35 °C, Inlet cold water temperature at 12°C, outler water at 7 °C.

Hybrid Solar Heat Pump (Commercial Use)

Heat & Cooling
Top- discharge



Model		LSQS66R2/BP-CP	LSQS62R2/BP-CP	LSQS76R2/BP-CP	LSQS76R2/BP-CP
Power	AC Grid input	380V, 50/60Hz	380V, 50/60Hz	380V, 50/60Hz	380V, 50/60Hz
	AC Max input Power(KW)	23	26	48	52
	AC Max input Current(A)	35	40	73	79
	Solar DC input range(V)	200-560	200-560V	200-560V	200-560V
	Recommended PV power(KW)	22	24	40	48
	PV Max input Current(A)	15A*2	15A*2	15A*2	15A*2
Heat	Rated heating Capacity(KW)	75.5	86.1	143.3	172.5
	Rated heating Capacity (Btu)	258135	294376	489943	589778
	Rated heating Power(KW)	20.68	24.46	40.15	49.15
	COPH at rated heating (W/W)	3.65	3.52	3.57	3.51
Cool	Rated cooling Capacity(KW)	53.3	58.5	100	115
	Rated cooling Capacity (Btu)	182233	200012	341900	393185
	Max power at rated cooling(KW)	18.7	20.67	35.1	45.3
	COpc at rated cooling(W/W)	2.86	2.83	2.85	2.82
Compressor	Type	EVI DC inverter	EVI DC inverter	EVI DC inverter	EVI DC inverter
	Refrigerant	R410/R32	R410/R32	R410/R32	R410/R32
	Number	2	2	2	4
Fan motor	Power	200 ~ 750W	200 ~ 750W	500 ~ 2200W	500 ~ 2200W
	No. of Fan	2	2	2	2
Outdoor Unit flow type		Top- discharge	Top- discharge	Top- discharge	Top- discharge
Indoor Side	Heat Exchange type	tank heat exchanger	tank heat exchanger	tank heat exchanger	tank heat exchanger
Other	Water Pressure Drop (Kpa)	≤35	≤35	≤38	≤50
	Water flow (m ³ /Hour)	13	14.8	24.6	29.7
	Water pipe	DN50	DN50	DN65	DN80
	Size of outdoor unit (L x W xH)(mm)	1990x900x1780	1990x900x1780	2250x1180x2300	2250x1180x2300
	Nosie range(dB)	≤71	≤71	≤73	≤73
	Weight of outdoor Unit(Kg)	690	720	1050	1100

**Rated Capacity Conditions:

Heating : outdoor design dry-bulb temperature at -12 °C, outdoor design wet-bulb temperature at -12 °C, Aircon outlet temperature at 41 °C.
Cooling: outdoor design dry-bulb temperature at 35 °C, Inlet cold water temperature at 12 °C, outler water at 7 °C.

ShinsonAir

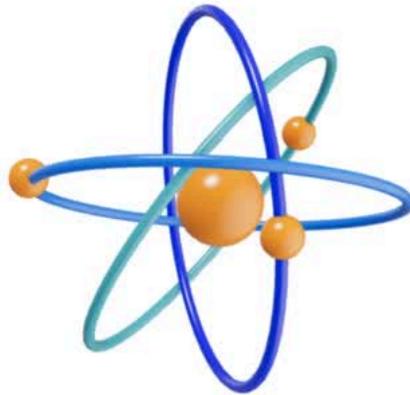
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