



SOLAR AC DC
JUST COMMON SENSE

Solar Heat Pump

Hot Water systems

ACDC HYBRID



Hybrid
Solar



DC
Inverter



Enameled Water
Tank



Indirect
Heating Coil



Split Design



WiFi
Control



Maximum
Efficiency
DC-driven



Max Water
Temperature 70°C



Energy
Efficient



100% Eco -
Up to 100%
Day time Savings



Worlds 1st Solar Off Grid/On Grid
Heat Pump Hot Water System

Features



Hot water heat pumps offer the highest levels of energy efficiency with the ability to provide 3-5kW of heat energy for every 1kW used.



Hot water heat pumps offer the cheapest available kW/h rate for hot water heating. Our systems can actually cost \$0 and be disconnected from traditional power sources.



Top element available for use in case of emergency failure or fast booster. System operates in both high and low outdoor ambient temperatures for year round use.



Auto Power mode allows tank to be fully heated by solar using very low tank sensor with battery/grid power only to be used when very high top sensor temperature is low to minimise alternative power consumption.



Solar ACDC hot water heat pumps supply hot water which delivers radiant heat energy to potable water systems. Easy to use controls allow you to adjust temperature settings at the touch of a button.

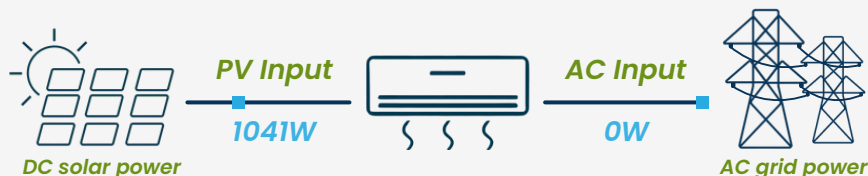


ECOLOGICAL AND ECONOMICAL = JUST COMMON SENSE

Solar Heat Pump Hot Water System

ACDC HYBRID

REAL-TIME POWER CONSUMPTION



TECHNICAL SPECIFICATIONS

Test Condition:

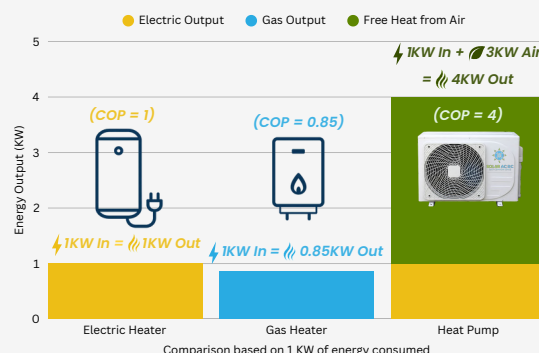
Ambient Temp.(DB/WB): 20°C/15°C Water Temp. (In/Out): 15°C/55°C

MODEL		SOL-HP-270SHW
Power Supply AC	Ph-V-Hz	1Ph 208V-240V/50-60HZ
Power Supply DC (Solar Panel)	Voc	80-380V
Power Supply DC (Solar Panel)	Isc	</=12A
Rated Heating Capacity	W	6100
Heating Power Input	W	1400
COP (W/W)/ (BTU/W)	/	4.36/15.00
Heating Water Capacity (15°C to 55°C)	L/H	115
Compressor Type	/	Twin Rotary inverter DC
Water tank volume	L	270
Water tank Tube type	mm	9.52
Water tank Tube length	m	29
Outdoor air flow	m3 /h	2200
Outdoor noise level	dB(A)	≤52
Outdoor Tank Dimension(H×W×D)	mm	1480×652×652
Outdoor unit Dimensions (H×W×D)	mm	564×802×323
Outdoor unit Net/Gross weight	Kg	37.0/42.0
Refrigerant type and charge volume	g	Hychill -60(480g)
Max Design pressure (Discharge/Suction)	MPa	4.3/1.5
Controller cable length	m	10
Electrical Expansion valve	/	Yes
Operation temp	°C	10-58
Water Temperature Heating	°C	20°C - 70°C

HOW EFFICIENT IS A HOT WATER HEAT PUMP?

A heat pump uses a small amount of electricity and recovers free heat from the air. This means you get 3-4 times more heat compared to traditional electric or gas heaters.

Heating Efficiency: Input vs Output



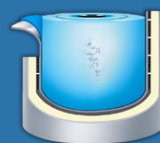
WHY CHOOSE OUR HEAT PUMP?"

Split Design

A heat pump uses a small amount of electricity and recovers free heat from the air. This means you get 3-4 times more heat compared to traditional electric or gas heaters — saving up to 75% on energy costs or 100% if operated directly from solar.



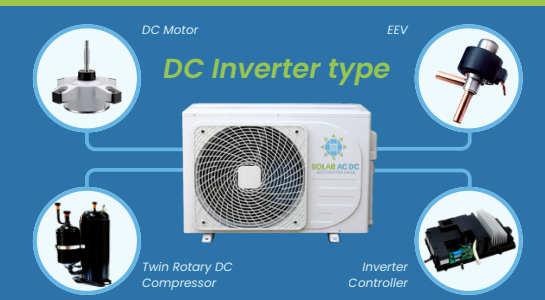
Enamel water Tank



Our water tank features an enamel brushing on the inside, which provides high resistance and excellent pressure-bearing capabilities. The enamel acts as a barrier, separating the welding lines of the steel panel from the water, thereby extending the unit's working life.

Indirect Heating Coil

The water and exchanger are separated. The indirect coils contribute to a longer lifespan and more stable system performance. Due to the high thermal conductivity of the aluminium coils, the system's performance is comparable to that of direct tank heating.



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