

Solar Air Conditioner

SEER 35 | Solar Hybrid Heat Pump

- Runs on solar power & AC power
- 18,000 BTU Cooling
- 20,000 BTU Heating
- Plug and play solar connection
- No batteries required

TOSOT  **SERIES**

HYBRID 



Outdoor Unit (GOU)



Wall Mount Indoor Unit (IDU)



Energy Saving



**User Friendly
Remote w/ sleep
mode, time (°C or °F)**



Simple to Install

This unit installs exactly like a normal mini-split air conditioner. Standard MC4 solar connectors and cabling can be used to connect the solar panels directly to the air conditioner unit.

Home

Keep the inside cool all day for next to nothing in energy costs. Preventing daytime heat build-up, also cuts evening cooling costs.

Office

Keep the work area comfortable during business hours for pennies per day. Cool or heat up to 650 Sq. Ft. (65 Sqm)

International

Compatible with 50Hz and 60Hz power, use it anywhere in the world.

Ultra-High SEER Solar Air Conditioner

The SW-HYBRID-18 can utilize the maximum amount of available solar power* drawn from the PV modules directly during the day even when there is no grid-tied utility power at all. Even when the sun is not shining at all during the night, this ultra high efficiency heat pump (A SEER 21 rating without solar and SEER 35 with solar) will keep you comfortable and save you money using far less electricity than a normal air conditioner or heat pump of the same capacity.

*Ensuring extra PV wattage through larger module capacity can help in times where irradiation levels from the sun is reduced, due to early and late times of the day or due to cloud coverage.

SW-HYBRID-18 TOSOT Series

TOSOT SERIES

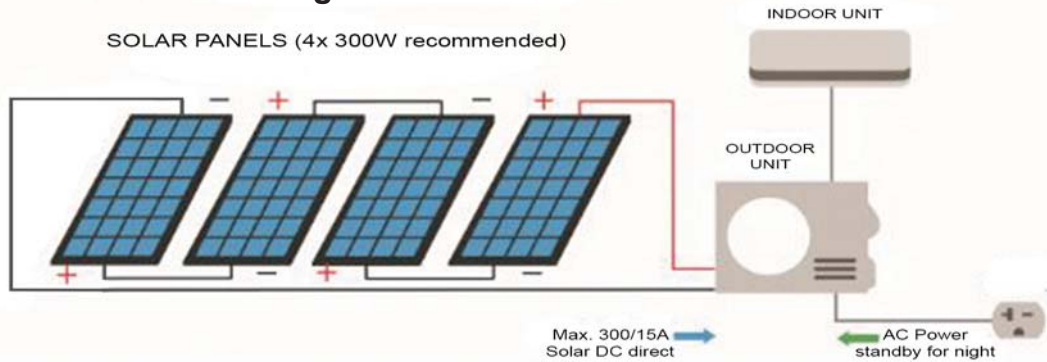
HYBRID

**Model: SW-HYBRID-18
Solar Air Conditioner**

Intelligent Power Management



Connect directly
to PV Solar
Panels



Like all DC-Inverter air conditioners, the SW-HYBRID-18 compressor runs on DC power converted from AC power, but with the Intelligent Power Management technology this system can also accept DC power directly from solar panels. Without needing any inverters, controllers or batteries. The solar DC power directly replaces any equivalent amount of AC power from the power company and can cut daytime energy cost for air conditioning or heating by up to 80-90%.

- i+ During the day, the SW-HYBRID-18 can get most out of its power from solar energy resulting in an efficiency above SEER 35 when using two >= 300W solar panels.
- i+ The unit can be connected 2 x 300W up to 8 x 300W panels.
- i+ The system is designed for hybrid operation with solar providing most of the energy needed during daylight hours.
- i+ This air conditioner must be connected to a 220/240VAC power source and is not designed for off-grid operation.

SW-HYBRID-18 Solar AC Specifications

Power AC	220-240V 50/60Hz	Solar Power Input	<= 2700W
Power DC	50-380V	Solar Power Input	<= 10A
Cooling Capacity	18000 BTU/h	Operating Range	17 - 32C
Cooling Power Input	1250W	Outdoor Sound Pressure Level	60 dB
Operating Avg. Power Consumption	650W	Level Outdoor Fan	WellingDC
COP	3.6	Motor Outdoor Fan	40WDC
SEER	>21/>35	Input Outdoor Air Flow	1300CFM
Heating Capacity	20000 BTU/h	Outdoor Unit Dimension (WXHxD)	845x600x310mm
Power Input@ Full Heatin Operation	1550W	Compressor	GMCC
Avg Power Consumption, Heating	700W	Refrigerant	R410A
Heating COP	3.5	Max. Lineset Length/Elevation	25mm (82ft)/10mm (33ft)
HSPF	9.9	Moisture Removal	.29 G/h
Indoor Fan Motor	WellingDC	Rated Current (RLA)	5.3A
Indoor Fan Input	30W	Locked Rotor Amp (LRA)	10A
Indoor Fan RPM (Hi/Med/Lo)	1220/1050/880	Refrigerant	R140A
Indoor Air Flow (Hi/Med/Lo)	850/650/550 CFM	Design Pressure	550/340 PSIG
Indoor Noise Level (Hi/Med/Lo)	44/40/35 dB	Liquid Side/Gas Side	1/4"/1/2"