

Solar Air Conditioner

SEER 35 | Solar Hybrid Heat Pump

- Runs on solar power & AC power
- 24,000 BTU Cooling
- 25,000 BTU Heating
- Plug and play solar connection
- No batteries required

TOSOT  **Series****HYBRID** 

Outdoor Unit (GOU)



Energy Saving



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



Wall Mount Indoor Unit (IDU)



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 750 Sq. Ft. (75 Sqm)

International

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

Ultra-High SEER Solar Air Conditioner

The SW-HYBRID-24 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.

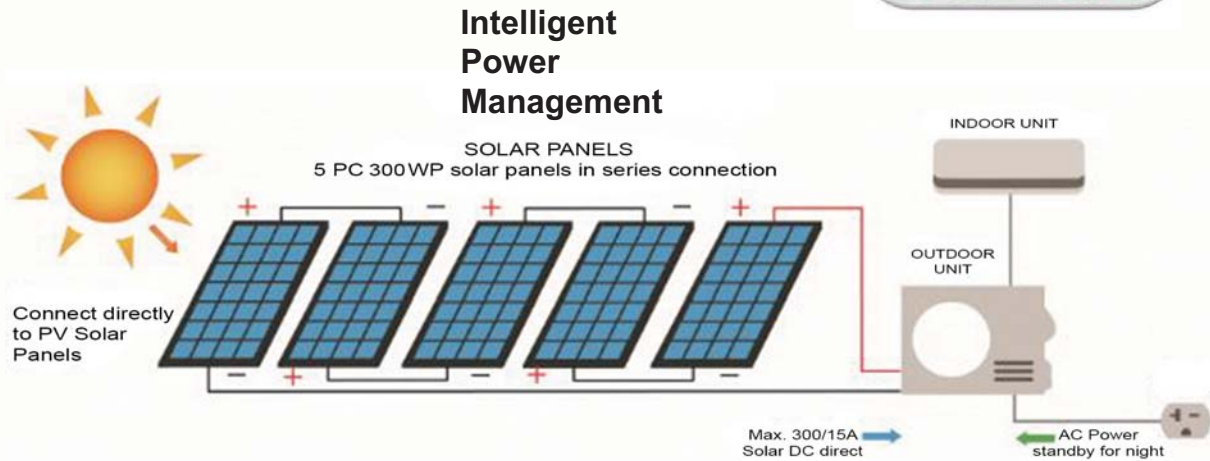
*Ensuring extra PV wattage through larger module capacity can help in times where irradiation levels from the sun is reduced, due to early and late times of the day or due to cloud coverage.

SW-HYBRID-24 TOSOT Series

TOSOT SERIES

Model: SW-HYBRID-24
Solar Air Conditioner

HYBRID



Like all DC-Inverter air conditioners, the SW-HYBRID-24 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-24 can get most out of its power from solar energy resulting in an efficiency above SEER 35 when using two \geq 300W solar panels.
- i+ The unit can be connected 5 x 300W up to 9 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-24 Solar AC Specifications

| | | | |
|------------------------------------|------------------|--------------------------------|-------------------------|
| Power AC | 220-240V 50/60Hz | Solar Power Input | \leq 2700W |
| Power DC | 50-380V | Solar Power Input | \leq 10A |
| Cooling Capacity | 24000 BTU/h | Operating Range | 17 - 32C |
| Cooling Power Input | 1710W | Outdoor Sound Pressure Level | 60 dB |
| Operating Avg. Power Consumption | 950W | Level Outdoor Fan | WellingDC |
| COP | 3.55 | Motor Outdoor Fan | 40WDC |
| SEER | $>21/>35$ | Input Outdoor Air Flow | 1600CFM |
| Heating Capacity | 25000 BTU/h | Outdoor Unit Dimension (WXHxD) | 910x700x340mm |
| Power Input@ Full Heatin Operation | 1900W | Compressor | GMCC |
| Avg Power Consumption, Heating | 1050W | Refrigerant | R410A |
| Heating COP | 3.5 | Max. Lineset Length/Elevation | 25mm (82ft)/10mm (33ft) |
| HSPF | 9.7 | Moisture Removal | .36 G/h |
| Indoor Fan Motor | WellingDC | Rated Current (RLA) | 7.78A |
| Indoor Fan Input | 58W | Locked Rotor Amp (LRA) | 15A |
| 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 | 5/8 3/8 |