

5kW Solar Hybrid Air Conditioner

Now you can cool a large living space without it costing the earth



During the day, these 5kW solar hybrid air conditioners combine several solar panels (in series) and only a small portion of a 240V AC supply to deliver huge energy savings while cooling or heating your living space, providing low temperatures and low bills.

On a summers day, when air conditioning is needed the most, you can operate this unit up to 100% from solar panels. At night, you continue to save due to the very high efficiency >SEER 21 rating on this unit. The mini-split air conditioner design allows you to put solar cooling or heating into an area where it's needed the most.

During the day, the system runs primarily on its solar power and at a minimum it uses zero watts of power from the utility grid (or an off grid 240V inverter system). It will automatically mix in normal AC power when there is not enough solar power generation. For off-grid customers this means that the dedicated air conditioner solar array takes a huge daytime load off the off-grid power system and helps reduce the impact on your off grid battery bank. As an example, on a clear hot sunny afternoon, the air conditioner might be using 1900W from its dedicated "free" solar array and only pulling ~70W from the 240V AC power supply while your existing off-grid solar array is happily doing its job of charging your batteries.



Grid connected customers are saving huge amounts on power while enjoying their air conditioner.

On pure 230V AC power, when little or no solar energy is available, the unit still runs very efficiently due to its quiet and long lasting brushless DC motor and AC to DC conversion technology.



Specifications

Model: HYBRID ACDC18

Wall mounted split system

18000BTU - 5kw

Indoor unit size 970 x 315 x 235mm

Indoor unit net weight 14kg

Outdoor unit size 900 x 700 x 350mm

Outdoor unit net weight 55kg

Solar input voltage (DC) 100-300V

Short circuit DC PV current <10A

Recommended solar input 6-9 x ~275W in series @~37Voc per panel

AC Power Supply 1Ph, 220-240V, 50/60Hz

Cooling Capacity 18000BTU - 5kw

Power Consumption - Cooling mode (max) 280-2020W

Refrigerant R410A

Ships with 3m of Copper Coolant Pipe and Exterior Unit is Pre-Gassed

