



ACDC Hybrid Solar Air Conditioner

Energy Efficiency Saving upto 100%

Wide Rang Voltage AC
Input 160-270V 50/60HZ
Solar DC input 100V-380V

Wide Rang
Temperature
T3

+55°C



-15°C

Product Highlights

- ✔ Upto100% efficiency of solar power consumption, not a bit of energy waste.
- ✔ Full DC system, high efficiency, SEER up to 23.
- ✔ Wide range of AC input: 50/60Hz, 160V-270V.
- ✔ Wide range of ambient temperature: -15°C-55°C.
- ✔ No controller/inverter/batteries needed.
- ✔ Eco-Friendly R410a Refrigerant.
- ✔ Easy installation, as good as electrical A/C installation with energy saving.
- ✔ Intelligent power supply display, real-time update of power input.
- ✔ Regular solar panels can be used, 3-10pcs can be freely embraced.
- ✔ Washable Filters.
- ✔ Digital Wireless Remote.
- ✔ Available for both off/on Grid application to meet customer requirement.

DC Outdoor Motor



DC Outdoor Motor



DC DEV



DC four-way Valve



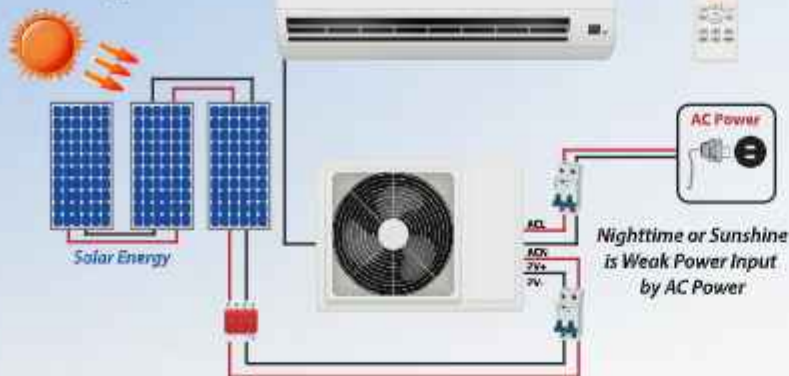
DC Indoor Motor



DC Stepper Motor



Daytime When Sunshine is strong Power Input by Solar Energy



-  ACDC Hybrid Indoor Unit
Capacity heating & cooling 9000Btu-2
4000Btu available
Digital display
Low Noise(Hi/Mi/Li)41/38/32dB
-  Remote Control
Digital Wireless remote
-  ACDC Hybrid Outdoor Unit
Capacity heating & cooling 9000Btu-2
4000Btu available;
Solar Input DC70-380V MAX(5A)
AC Input 208-240V 50/60HZ,R410A;
Low Noise 53-60dB
-  Lightening Areester
-  Solar Panels
Against Salt mist corrosion/amonia
corrosion/fire risk;
-  Fuse Protection
-  DC Solar Wires
-  DC Breaker

Working Principle of ACDC hybrid Solar Air Conditioner saving power at day-time with 100%

1. Plug solar wire direct to outdoor unit and enjoy saving power at day time up to 100%
2. The Numner of solar panel is recommended below during operation air conditioner at daytime can save power up to 100%.
3. Incase if rainy or no sunshine solar air conditioner will switch automatic to take power needed from electricity
4. Solar air conditioner with Built-IN MPPT smart rechnology always track power generated by solar panel to make sure that all power generated is used as priotity power.
5. At night solar air conditioner can spend only few units when work with electricity alone beacuse solar inverter air conditioner high efficiency energy save (it is full DC ariable frequency driver)
6. The electricity tariff rates here in Oman is reasonably batter then battery based solution are not really required. We always recom mend to consider ACDC Hybrid Solar Air Conditioner.

off/on grid application



Some of the reason to avoid battery operated DC Air Conditioner

1. If grid power or a generator are unavailable onsite, we must propose an off-grid, pure DC air conditioner system powered fully by solar and supported by a battery bank.
2. Air conditioners have high power demands, so a sizable battery storage system is needed to enable 24-hour operation at off-grid sites.
3. Given batteries' limited lifespan, replacements will be necessary, incurring recurring costs.
4. The large battery storage required may render solar A/C financially unviable in some cases.
5. For sites lacking grid power or a generator, we should recommend a solar-powered, off-grid, pure DC air conditioning system with batteries.