HotSpot Energy, Inc.
(757) 410-8640

Solar Air Conditioner

Solar Hybrid Heat Pump
Model ACDC18C

Connect 4 Or More Panels (>/= Total 1200W)
Runs On Solar Power Only or Solar & AC Power
18,000 BTU Cooling & Heating
Plug-And-Play Solar Connection
No Batteries or Grid/AC Required

The Worlds Original Solar AC Manufacturer
Celebrating Over 10 Years of Production

Home / Office

Keep the inside cool all day for next to nothing in energy costs. Preventing daytime heat build-up also cuts evening cooling costs. Cool or heat up to 1000 Sq. Ft. (92m²).

International

Compatible with all types of solar panels & 50Hz and 60Hz power, use it anywhere in the world.

Display shows DC/Solar power utilization. Shown in heating mode at setting 90 ºF, no AC connected. Display visible only when unit is on.

Simple To Install

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

Ultra-High SEER Solar Air Conditioner

Your air conditioner needs the most power when the sun is shining, a coincidence you can take advantage of with our ACDC18C solar air conditioner. It can keep an indoor area cool during the day for free, or for just pennies, at times when solar power is not sufficient to carry 100% of the load. Use this system to cool a small area or to augment a larger system.

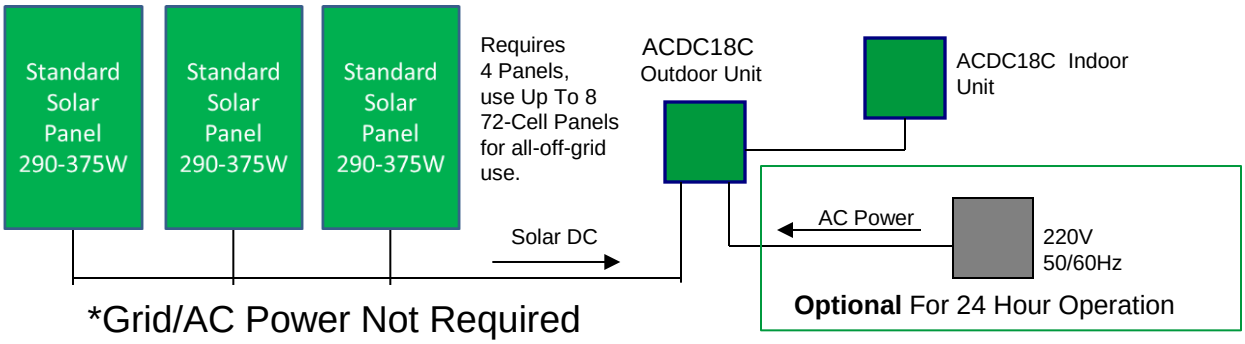
Connect 4-5 (up to 8) solar panels (290-375w per panel) 72-cell panels in series. The unit can also connect to 220v (208v-240v) AC power for extra power during overcast conditions, transient clouds, or at night. No need for batteries. Even when the sun is not shining at all, with an AC connection this ultra high-efficiency (SEER 22 without solar) heat pump will keep you comfortable and save you money using far less electricity than a normal AC or heat pump unit of the same capacity. Calculated using only paid-for energy, the ACDC18C produces an equivalent SEER above **SEER 75**.

hotspot energy

World's Original Solar AC Manufacturer - Since 2007

ACDC18C Hybrid Solar Air Conditioner

Connects Directly To Solar Panels



*Grid/AC Power Not Required

No batteries needed. Like all DC-Inverter air conditioners, the ACDC18C compressor runs on DC power, which may at times be converted from AC power. This special solar air conditioner can accept DC power directly from solar panels, without needing an inverter, charge controller, or batteries. The solar DC power directly replaces AC power from the power company and can cut daytime energy costs for air conditioning or heating by up to 100%. No power is exported and no net metering agreement or special meter is needed. Can be used with all-DC, all-AC, or AC-DC whereby the unit can seamlessly blend both power sources with a bias towards using all available DC (solar) power first.

During the day, the ACDC18C can get all or most of its power from 4-5 >/= 300W solar panels. The unit can be connected with up to 8 panels for running on 100% solar power with no Ac connection or when the sun is not at full strength. The system is designed for hybrid operation with solar providing most or all of the energy needed during daylight hours, supplemented by AC power at night or during times of cloud cover. This air conditioner may be connected to a 208-240VAC 50/60Hz power source as desired for night time or cloudy day operation. Ratings per AHRI 210/240.

Power AC	208-240V, 50/60Hz		Power DC, PV, series connection	110-300 Vmp
*Cooling Capacity (rated/max) BTU	17,000 / 18,015		Solar Power Input	</=10a
Power Input @ Max Cooling	1360W		Outdoor Range (cooling/heating)	50F-125F / 6F-86F
Avg. Power Consumption, Cooling	819W		Outdoor Noise Level Max	56 dB(a)
Cooling EER / COP at Rated Cooling	13.25/ 3.88		Outdoor Fan Motor	Variable BLDC
SEER / SEER w/ solar calculation	>22 / >75		Outdoor Air Flow CFM max.	1250
*Heating Capacity	18,083 BTU		Outdoor Unit, weight	124 Lbs.
Power Input @ Rated Heating	1360W		Outdoor Unit Dimension (W*H*D)	955×700×390 mm
Avg. Power Consumption, Heating	700W		Compressor	Toshiba/GMCC 2xRotary
Heating COP	3.89		Refrigerant g/oz	R410A 1600/56.5
Max power Input	1900W		Max. Lineset / Max. Elevation (Ft.)	50 ft. / 16 ft.
Indoor Fan Motor	BLDC		Moisture Removal	1.9 L/h
Indoor Fan Input (Highest speed)	40W		Rated Current (RLA)	7.13A
Indoor Fan RPM (Hi/Med/Lo)	1180/1010/850		Locked Rotor Amp (LRA)	1.2a
Indoor Air Flow CFM	360/340/295		Refrigerant Oil	VG74 / 480 ml
Indoor Noise Level (Hi/Med/Lo)	41/38/33 dB(a)		Design Pressure	550/340 PSIG
Indoor Unit Dimensions (W*H*D)mm	970×315×242		Liquid side/ Gas side (Flare)	φ6.35*0.5+φ15.88×0.75
Indoor Unit Weight	30 Lbs.		Certifications	ETL / UL, Energy Star

All specifications subject to change without notice. Images for reference only. See website for full details on operation and requirements. *Off-grid BTU capacity will be reduced when solar power is limited. An AC backup connection is recommended for full & uninterrupted operation. Extra panels, up to eight, should be used for intended off-grid applications.