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DATASHEET

Solar Hybrid Air Conditioner

SEER 35

MODEL: ACDC12(B)

HYBRID

- Connects directly to solar panels
- Runs on solar power & AC power
- 11,500 BTU Cooling
- Plug-and-play solar connection

Wall Mount Indoor Unit (IDU)

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Outdoor Unit (ODU)

User Friendly Remote w/ sleep mode, timer, & follow-me (°C or °F)

PV Modules are not included

OZONE FRIENDLY R-410A

System operates using R-410A Refrigerant

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 optimal space of 750 sq ft (70m²).

International

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

Ultra-High SEER Solar Air Conditioner

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 A/C unit.

The ACDC12(B) can utilize the maximum amount of available solar power* drawn from the PV modules during the day and supplement the grid-tied utility power, with no need for batteries. Even when the sun is not shining at all, this ultra high-efficiency air conditioner (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 of the same capacity.

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

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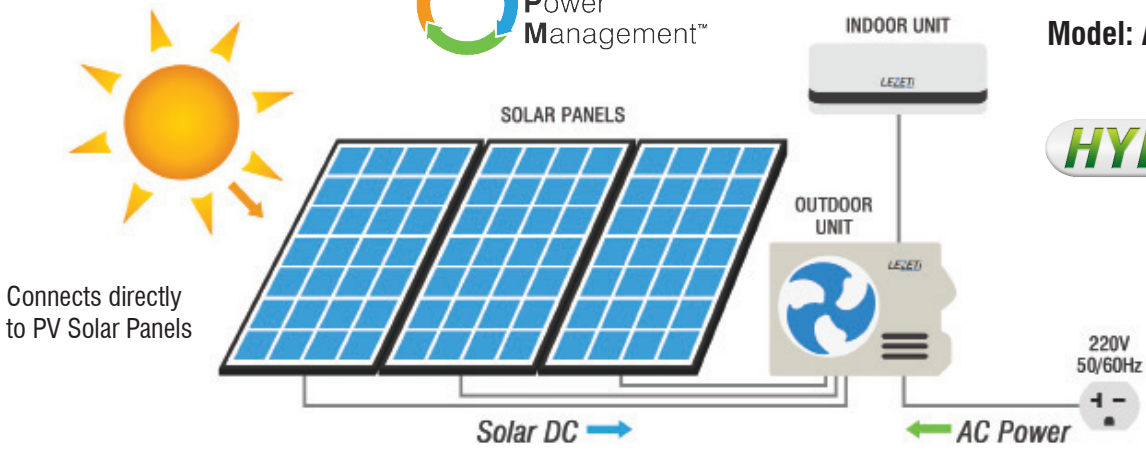

Connects directly to PV Solar Panels

Model: ACDC12(B)

HYBRID

The ACDC12(B) hybrid solar air conditioner runs on DC power directly from solar panels, without needing an inverter, a charge controller, or batteries. The solar DC power directly replaces and significantly reduces the power normally required from the utility grid, cutting daytime energy costs for air conditioning.

The system is designed for hybrid operation with the solar panels providing most of the energy needed during daylight hours supplemented with grid power as the incoming DC power decreases. During the day, when the ACDC12(B) gets most of its power from solar, the resulting efficiency can be above SEER 35 when using a minimum of 2 solar PV panels*. This air conditioner must always be connected to a 220/240VAC power source and is not designed for off-grid operation.

*PV module configuration must be between 30-39Vmp. The ACDC12(B) will not use more than 20 amps of solar power regardless of PV module configuration. Total PV module configuration not to exceed 39Vmp.

ACDC12 (B) Solar AC Specifications

Power AC	220/240V, 50/60Hz		Solar Power Consumption	</=780W DC
Power DC	30-39 VDC		Solar Power Consumption	</=20a
Cooling Capacity	11500 BTU/h		Operating Range (cooling/heating)	20F-122F/5F-86F
Power Input @ Full Cooling Operation	885W		Outdoor Noise Level	57 db
Avg. Power Consumption, Cooling	585W		Outdoor Fan Motor	Welling DC
Cooling COP	3.81		Outdoor Fan Input	40W DC
SEER (without solar / with solar)	>21 / >35		Outdoor Air Flow	1180 CFM
Heating Capacity	13000 BTU/h		Outdoor Unit Dimension (W"D"H)	32" x 12.5" x 22"
Power Input @ Full Heating Operation	1065W		Compressor	BLDC (Rotary)
Avg. Power Consumption, Heating	860W		Refrigerant	R410A / 44.1oz.
Heating COP	3.6		Max. Lineset Length /Elevation	82 ft. / 33 ft.
HSPF	10		Moisture Removal	.29 G/h
Indoor Fan Motor	Welling DC		Rated Current (RLA)	5.3A
Indoor Fan Input	20W		Locked Rotor Amp (LRA)	10A
Indoor Fan RPM (HI/Med/Lo)	1150/950/800		Refrigerant Oil	VG74 / 17 oz.
Indoor Air Flow (HI/Med/Lo)	410/340/265 CFM		Design Pressure	550/340 PSIG
Indoor Noise Level (HI/Med/Lo)	39/29/26 dB		Liquid side/ Gas side	1/4" / 1/2"
Indoor Unit Dimensions (W"D"H)	33" x 8" x 14"		Connection / Wire	AWG 12-16*4

All specifications subject to change without notice.