DC48 Solar/DC Air Conditioner



Specialty HVAC

Manufacturing

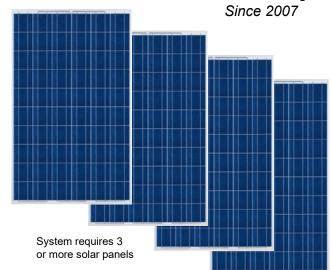
12,000 BTU 48V DC Heat Pump VRF Dynamic Capacity Compressor 100% DC - No Inverter



Wall Mount Indoor Unit (IDU)

The DC48 is designed from the ground up to operate on DC power. There is no AC power used inside or needed externally to operate the unit. DC power is connected to the outdoor unit. The indoor unit receives DC power from the outdoor unit.

- 48v Solar/Battery Power
- 12,000 BTU Heat Pump
- Cool or Heat up to 700 ft²
- Eligible For US Tax Credits
- Variable Capacity
- Anti-Corrosion Technology
- Eco-Friendly R410a Refrigerant
- Washable Filters
- Digital Wireless Remote
- Quiet Indoor Unit (As Low As 26dB)





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

Complete Kits 48v DC Air Conditioner 3, 6 or 9 x 300w PV Panels PV Mounting Hardware Charge Controller Deep Cycle Batteries Refrigerant Line-set *Customer Supplied Wiring

| Hours Per Day Solar Operation | | 9 | 15 | 20 | 24 | *Assumes 5 hours of insolation 8 properly sized for the space. AH | |
|-------------------------------|---------------------|---|----|----|----|--|--|
| PV Solar Panels | V Solar Panels 300w | | 6 | 9 | 12 | | |
| 6v Golf Cart Batteries | 225 AH | 0 | 8 | 16 | 16 | has been doubled to extend | |
| 12v deep Cycle | 130 AH | 4 | 0 | 0 | 0 | battery life. | |



Variable Refrigerant Flow & Capacity means that the air conditioner is always the right size for the conditions and is never wasting power.

This unit uses utilizes SeaSpray[™] anti-corrosion technology including hermetically sealed compressor, sealed circuit boards, and silica-nanotech condenser and evaporator protection.

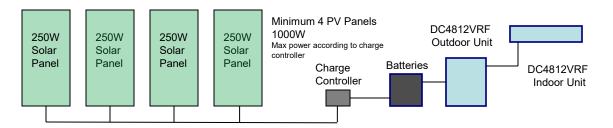
A product of HotSpot Energy, a trusted name in specialty air conditioning manufacturing and renewable energy.

ODU (Outdoor Unit)

*Images are representative only. Products are under a continuous improvement process and specifications may change without notice.



Powered By Batteries & Solar Panels



Using technology similar to SEER 27 air conditioners, the DC24 compressor runs on DC power at various frequencies and refrigerant flow depending on cooling load. The all-DC solar air conditioner uses DC power directly without needing an inverter or other AC power source. Due to solar voltage fluctuations the unit cannot connect directly to solar panels and must have a stable source of power such as batteries.

Depending on conditions, the entry-level setup can operate up to 10 hours per day using 4 x 250w panels. A configuration of 6 panels can provide up to 15 hours of daily operation, with 8 panels yielding up to 20 hours. A 10 panel configuration can handle up to 24 hours per day operation. Batteries and charge controller must be sized appropriately. See our website for calculation information at www.hotspotenergy.com/DC-air-conditioner/ or call us for pre-sales technical support.

| Power DC | 48 VDC | DC Power Input (Max.) | | 21 Amps |
|--|--------------------|-----------------------|---|---------------------|
| Power DC Range | 46-59 VDC | | Low Voltage Disconnect | 46V |
| Max Cooling Capacity | 12000 Btu/h | | Operating Range (cooling/heating) | 20F-122F/5F-90F |
| Max Power Input, Cooling | 980W | | Outdoor Noise Level | 50 db |
| Normal Power Consumption, Cooling | < 560W | | Outdoor Fan Motor | Panasonic BLDC |
| Seasonal Average Cooling COP | 5.66 | | Outdoor Fan Input | 35W DC |
| Seasonal Average Cooling EER | 19.30 | | Outdoor Air Flow | 1295 CFM |
| Max Heating Capacity | 12624 Btu/h | | Outdoor Unit Dimension (W*D*H) | 30.4" x 10.2" x 21" |
| Max Power Input, Heating | 1050W | | Compressor | GMCC Toshiba |
| Normal Power Consumption, Heating | 722 | | Refrigerant | R410A / 38 oz. |
| Heating COP | 3.69 | | Pre-charged For Line Set L | 25 Ft. |
| HSPF | 9.6 | | Max. Lineset Length /Elevation | 52 ft. / 16 ft. |
| Indoor Fan Motor | Panasonic BLDC | | Moisture Removal | .25 G/h |
| Indoor Fan Input | 30W DC | | Digital Display | F or C |
| Indoor Fan RPM (Hi/Med/Lo) 1250/900/700 | | | Refrigerant Oil | VG74 / 17 oz. |
| ndoor Air Flow (Hi/Med/Lo) 412/295/235 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) | 32" x 8.6" x 11.5" | | * Cooling COP & EER Rated at average operating conditions | |

DC48 DC Solar AC Specifications

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