



## *SplitCool DC18*

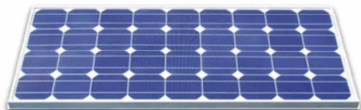
### Solar Powered Direct Current Air-Conditioner

- ❖ Daytime and Night Time Operation
- ❖ Optimized for Solar Air Conditioning
- ❖ Uses Standard Deep-Cycle Golf Cart Batteries
- ❖ Works with Standard PV Panels
- ❖ 18,000 BTU Nominal Capacity
- ❖ Variable Speed BLDC Compressor
- ❖ All DC – No Inverter
- ❖ Cooling and Heating Modes

100% DC - No Inverter = No Energy Wasted



The DC18 solar air conditioner has been designed to make the best possible use of costly solar photovoltaic panels. The DC18 can use approximately 40% fewer solar panels than would be required by a standard AC-powered air conditioner of the same max capacity running off of solar panels through an inverter. The system is perfect for residential, commercial, telecom, portable classrooms or offices, or remote facilities where conventional or generator power is costly and/or unreliable.



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## SplitCool DC18 v.1

## DC Heat Pump

Max Cooling	18,000 BTU
Max Heating	20,500 BTU
Input Voltage	48 VDC (46v - 56v)
Batteries	6 VDC (min 8) or 12 VDC (min 4)
Battery AH, ea.	225 - 395
Weight	165 lbs
Charge Weight	2.82 lbs
Refrigerant	R-410a
Compressor	Brushless DC (BLDC)
Low Voltage Disconnect	Yes

### Indoor Unit:

* Height	12.2"
* Width	34.3"
* Depth	9.1"
* Air Flow	470 ft <sup>3</sup> /min
* Noise Level (dB)	52 (indoor)

### Outdoor Unit:

* Height	31"
* Width	38.58"
* Depth	13.78"

### Features:

- \* High-SEER BLDC (Brushless DC) permanent magnet motor.
- \* No Inverter - 100% DC operation
- \* Variable frequency drive 25hz - 120hz (variable speed)
- \* Capacity dynamically sized 5,000 BTU-18,000 BTU as needed.
- \* Solar powered air conditioning requires no AC power.
- \* BLDC Compressor provides high efficiency operation and slow start.
- \* Overnight operation available.
- \* Innovative control logic saves energy by matching cooling capacity to demand.
- \* Uses 4 standard 12v (or 8 6v) deep cycle solar batteries.
- \* Batteries are configured in series/parallel for 48 volt operation.
- \* Uses 4 or more standard 200w solar panels.
- \* Quiet operation.
- \* Works with external standard solar charge controller.
- \* Solar panel and battery requirements will vary based on application and local sunlight conditions.
- \* Can be AC-coupled if desired.

