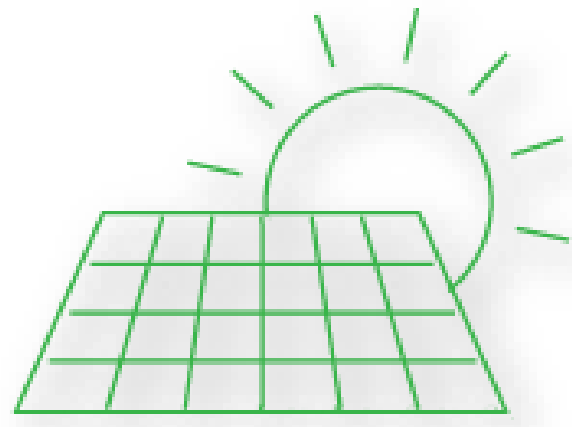


WECCOOL

HYBRID AIR CONDITIONER



100% SOLAR POWERED
INBUILT DC SOLAR BOOSTER FOR REAL OFF GRID INSTALLATION



WECCOOL

EXTREME COOLING



230Vac is not required to run the A/C unit, WeCool can run 100% from solar source



Runs on up to 100% by solar DC power during daytime



Runs with only 3 solar panels and from 140W of solar power available



Inbuilt MPPT and Solar Booster to improve the direct energy from the sun



Grid Energy is not necessary for the compressor start up phase.



No batteries/inverter/controller required



Adaptive Variable Capacity



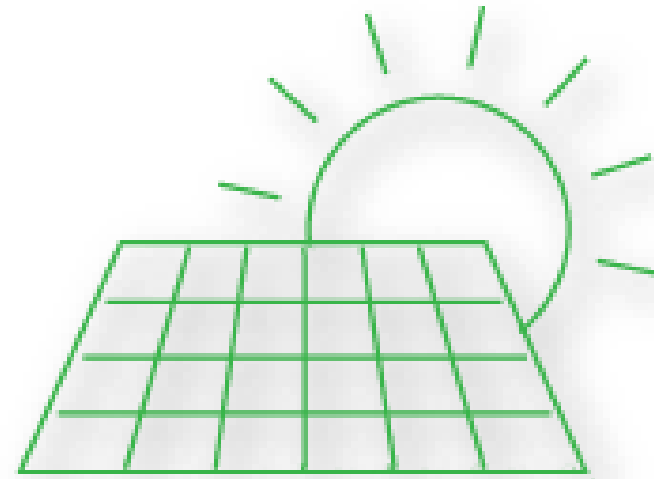
Anti-Corrosion Technology



Eco-Friendly R410a Refrigerant



High Efficiency, SEER between 21 and 35



DC Powered Indoor unit

One reason that a DC Air Conditioner makes the best use of solar power is because there is no loss associated with converting DC power from solar panels into AC power to run a standard air conditioner



100% DC Powered Outdoor unit

Power Dc/Dc booster to run the compressor in absence of 230Vac network
Thanks to the variable brushless power technology the compressor can work in "power modulation"



Brushless fan motor

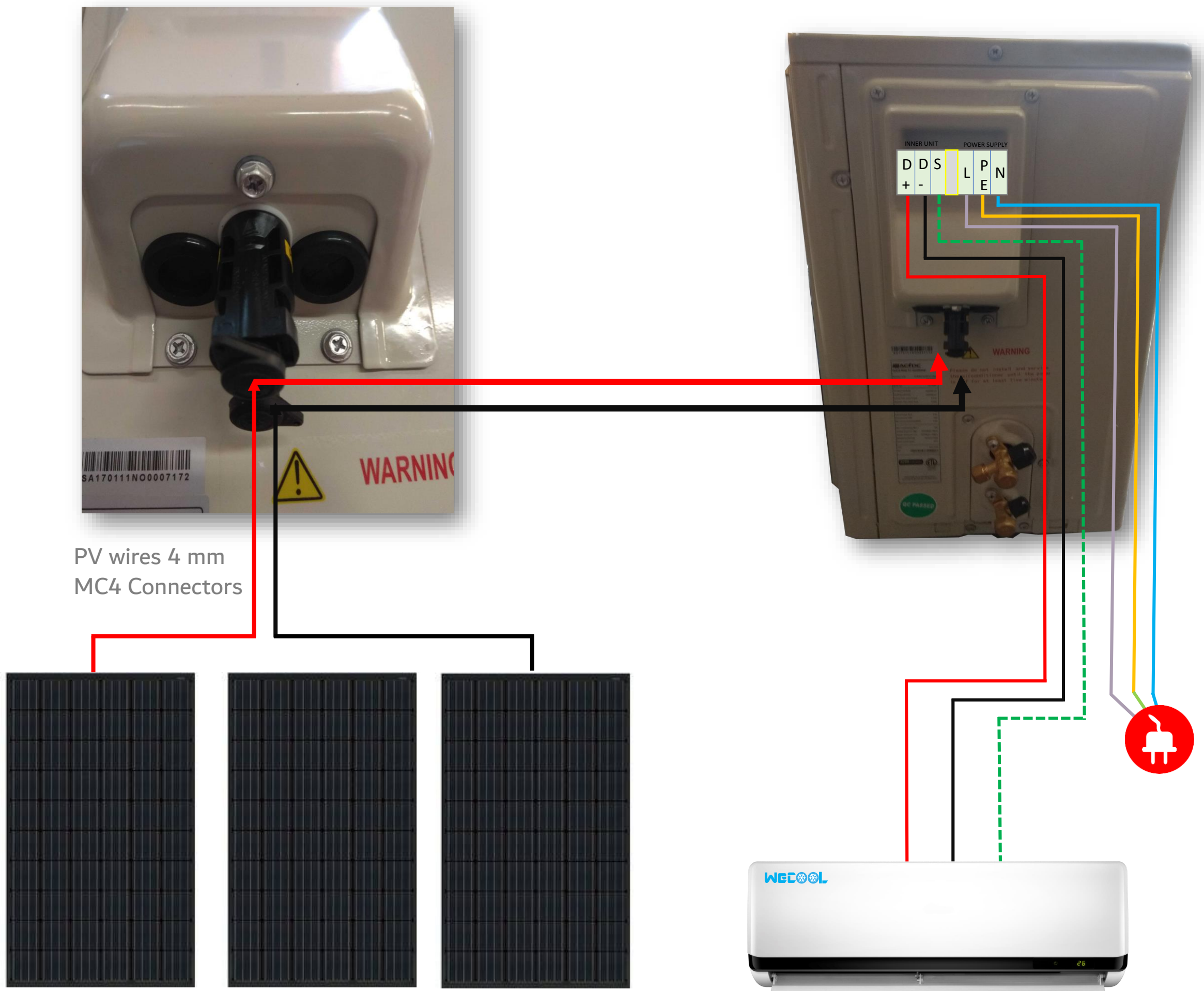
Wecool use a brushless fan motors for both indoor and outdoor units. DC brushless fan motors can greatly reduce energy consumption, and run with super low noise. Plus, the use of a brushless permanent magnet motor driver provides a variable frequency drive that allows the system to dynamically adjust its capacity based on conditions.



WECCOOL12000			Cooling/Heating
Capacity	Cooling	Btu/h	3071-12966
	Heating	Btu/h	3753-13306
Electric Data			Spec.
Power Supply PV side (suggested)		Vdc	100~300 Vdc
Max Current PV side		Amper	10
Power Supply AC side		Vac	220~240Vac
Frequency		Hz	50-60
Unit power			Spec.
Max Cooling Power		Watt	960
Max Heating Power		Watt	930
System supply method		Independent AC from DC input, the compressor is supplied directly from the booster to be used without AC230Vac input	
System Performances			Spec.
COP		W/W	3.8
SEER (rating)	Cooling	BTU/h/W	23
HSPF	Heating	BTU/h/W	11
Air mass	Indoor	M3/h	630
Temperature Range			Spec.
Cooling	Range	°C	+13 // +60
Heating	Range	°C	-15 // +33
Cooling Efficiency@45°C	AVG	%	87%
Heating Efficiency@5°C	AVG	%	90%
Operational T °C	Range	°C	-30+62
Noise Level			Spec.
High / Medium / Low	Indoor Unit	dB	42/37/26
	Outdoor Unit	dB	52 max
Compressor			Details
Brand Name			Toshiba/DMCC
Type			Twin Rotary
Voltage			DC-DC
Dimension and Weight			Spec.
Body Indoor Unit	WxDxH	mm	850x300x198
Body Outdoor Unit	WxDxH	mm	850x543x315
Box Indoor Unit	WxDxH	mm	900x370x270
Box Outdoor Unit	WxDxH	mm	920x620x400
Net Weight/Gross Weight		Indoor Unit	11kg / 13 kg
Net Weight/Gross Weight		Outdoor Unit	47kg / 50kg
PV Information			Spec.
Solar panels suggested		Poly/mono	260/320 W
PV panel Voc (single panel max)		Voc	65
Max DC Voltage Admitted		Vdc	300
Min input Voltage		Vdc	40
Max Input Amps		Amper	10
PV Mode efficiency			Spec.
PV Only		1@1	99%
Efficiency with grid+PV			97%
PV Mode efficiency			Spec.
Warranty			5 years
Warranty 2			7 years
Spare Parts Availability			Nation
	100%	ITA/UAE/KSA/UK/GERMANY/ARGENTINA/BRASIL/HK/DENMARK/OMAN	



WECCOOL18000			Cooling/Heating
Capacity	Cooling	Btu/h	3400-19600
	Heating	Btu/h	4156-19800
Electric Data			Details
Power Supply PV side (suggested)		Vdc	100-300 Vdc
Max Current PV side		Amper	10
Power Supply AC side		Vac	220-240Vac
Frequency		Hz	50-60
AC input necessary			No
Self start with DC only			Yes
System supply method	Independent AC from DC input, the compressor is supplied directly from the booster to be used without AC230Vac input		
Unit power			Details
Max Cooling Power		Watt	1400
Max Heating Power		Watt	1360
System Performances			Details
COP		W/W	3.9
SEER (rating)	Cooling	BTU/h/W	23
HSPF	Heating	BTU/h/W	10
Air mass	Indoor	M3/h	740
Temperature Range			Details
Cooling	Range	°C	+13 // +60
Heating	Range	°C	-15 // +33
Cooling Efficiency@45°C	AVG	%	87%
Heating Efficiency@5°C	AVG	%	90%
Operational T °C	Range	°C	-30+62
Noise Level			Details
High / Medium / Low	Indoor Unit	dB	40/33/25
	Outdoor Unit	dB	50 max
Compressor			Details
Brand Name			Toshiba/DMCC
Type			Twin Rotary
Power Supply			DC-DC
Direct Solar power supply			Details
SDX booster		DC	UP/UP DC booster
Stabilization		DC	Film Booster capacitors
Operative power		W	50-2500
Dimension and Weight			Details
Body Indoor Unit	WxDxH	mm	800x300x198
Body Outdoor Unit	WxDxH	mm	770x540x305
Box Indoor Unit	WxDxH	mm	850x370x270
Box Outdoor Unit	WxDxH	mm	100x600x400
Net Weight/Gross Weight		Indoor Unit	11kg / 13 kg
Net Weight/Gross Weight		Outdoor Unit	41kg / 46kg
PV Information			Details
Solar panels suggested		Poly/mono	260/320 W
PV panel Voc (single Panel max)		Voc	65
Max DC Voltage Admitted		Vdc	300
Min input Voltage		Vdc	40
Max Input Amps		Amper	10
PV Mode efficiency			Details
PV Only		1@1	99%
Efficiency with grid+PV			97%
PV Mode efficiency			Details
General parts warranty			5 years
Compressor Warranty			7 years
Design Life			20 years
Spare Parts Availability			Nation
	100%	ITA/UAE/KSA/UK/GERMANY/ARGENTINA/BRASIL/HK/DENMARK/OMAN	



CONNECTION KIT



15 mt of PV cable+connectors



3mt of cooling pipe and insulation



6mt of FG7 external cable 3x2.5mm²



Drain / Condensing Pipe

WECO

WECOOL



www.weco.uk.com