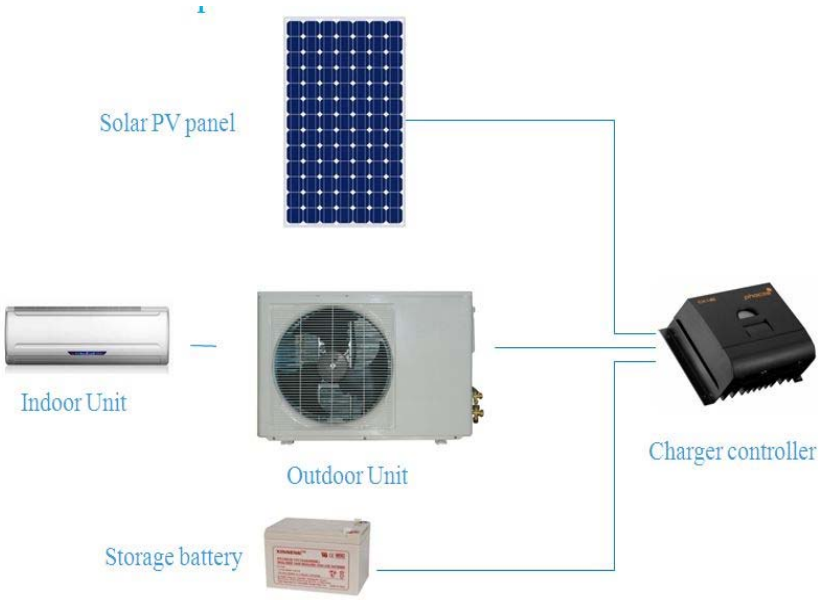
100% Solar DC Inverter Air Conditoner

The main components



High-quality components, Durable security, effectively improve the efficiency

Leading international new refrigerant R410A

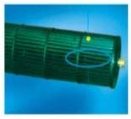
New refrigerant 410A has stabilization, innocuity and more efficient characteristic, due to not including chlorine element, will not destroy the ozonosphere. In addition, use new refrigerant will take advantage on air conditioners performance.

Well-known brands DC permanent magnet synchronous compressor

The use of permanent magnet rotor produce the magnetic field without the power turn on, it can save the energy, make the whole system more efficient, and would be more steady while working

Large diameter tubular blade, Reduce operating noise

Adopt large diameter equidistant tubular blades, the blade shape mute settings, not only a amount of wind, but also efficiently reduce operation noise.



Panasonic DC remarkable motor

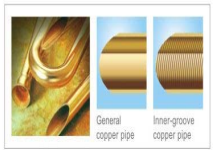
Keep the system stable and powerful but quiet with long used life span

High efficiency heat exchanger

Adopting multi-fold heat-exchanger ,about 20%~40% more exchange area than the general one which to improve the high energy efficient ratio of performance. meanwhile, equiped with inner-groove copper tube and hydrophilic alumimum foil to achieve the high performance of cooling and heating.

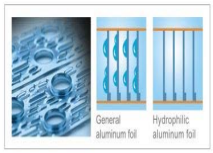
High-grade inner-groove copper pipe

Adopting the high-grade inner-groove copper pipe to improve the heating and anti-defrosting efficiency of the heat-exchanger.



Inner-groove copper pipe

Compared with general aluminum foil, hydrophilic aluminum foil does not frost up like other conventional type A/C units, this also means that corrosion will no longer be a factor.



6)78$less DC motor

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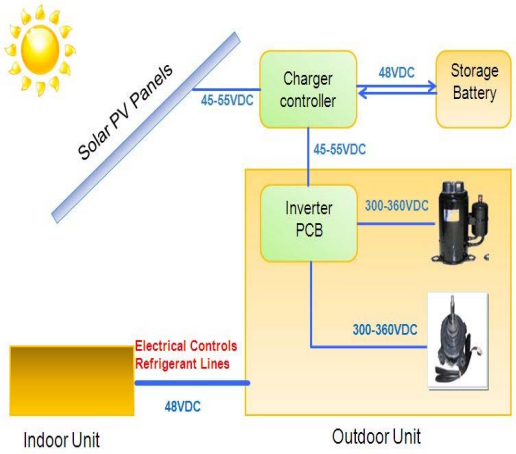
How it works



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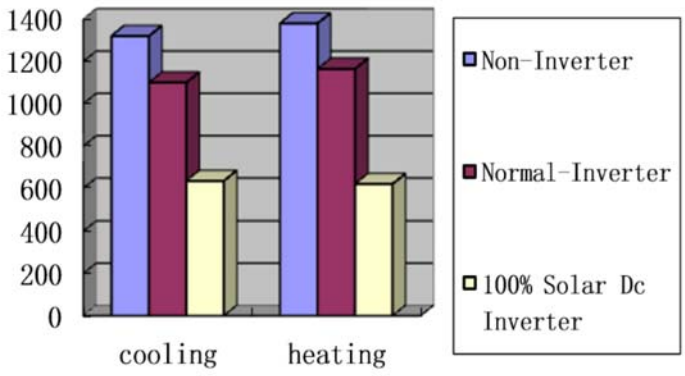
Green Energy(12000BTU)



Great efficiency improvement for EER and COP when using solar panels.

Meanwhile, the AC can reach A++ when only the commercial power is supplied.

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STC	TN250W-01
Optimum operation Voltage(Vmp)	30.6V
Optimum operation Current(Imp)	8.3A
Open Circuit Voltage(Voc)	37.4V
Short Circuit Current(Isc)	8.17A
Maximum Power at STC(Pmax)	250W
operation Module Temperature	-40℃—+85℃
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	20A
Power Tolerance	0/+5W

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Hours Per Day Solar Operation		8 hours	12 hours	18 hours	24 hours
PV Solar Panels	250W	4pcs	6pcs	8pcs	10pcs
Batteries	150AH	4	□	8	
	200AH		4	□	8

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The CX48 Series offers outstanding features for its class: Along with a PWM charge controller with integrated temperature compensation, the CX controller comes equipped with an extensive range of control, programming and safety functions. The battery charge status is continuously displayed via a bar graph, including the input and output current of the battery as well as the load status (e.g. overloading, load short circuiting). The deep discharge protection mode has 5 settings: two fixed voltages, two charging states or adaptive (for battery protection). An audible alarm and a programmable nightlight function are standard on all CX controllers.

Type	CX48 20	CX48 40
System voltage	24/48 V auto recognition	
Max. charge/load current	20 A	40 A
Float charge	27.4/54.8 V (25 °C)	
Main charge	28.8/57.6 V (25 °C), 30 min. (daily)	
Boost charge	28.8/57.6 V (25 °C), 2 h Activation: battery voltage < 24.6/49.2 V	
Equalization	29.6/59.2 V (25 °C), 2 h Activation: battery voltage < 24.2/48.4 V	
Deep discharge protection:		
State of charge dependent	A: 22.8 – 23.8 V / 45.6 – 47.6 V B: 22.0 – 23.5 V / 44.0 – 47.0 V	
Voltage dependent	A: 22.0/44 V B: 23/46 V	
Adaptive	22.0 – 24.4 V / 44.0 – 48.8 V	
Reconnect level	25.6/51.2 V	
Overvoltage protection	31.0/62.0 V	
Undervoltage protection	21.0/42 V	
Max. panel voltage (Overvoltage protection by varistor)	50 V in 24 V system 95 V in 48 V system	
Max. PV Voc.	90 V	
Temperature compensation (Charge voltage)	–50 mV/K at 24 V –100 mV/K at 48 V	
Self consumption	< 10 mA	
Grounding	Positive grounding	
Ambient temperature	–20 to +50 °C	
Max. height	4,000 m above sea level	
Battery type	Lead acid GEL, AGM, flooded	
Wire cross section	=< 16 mm²	
Weight	348 g	365 g
Dimensions (W x H x D)	110 x 92 x 58 mm	
Type of protection	IP22	

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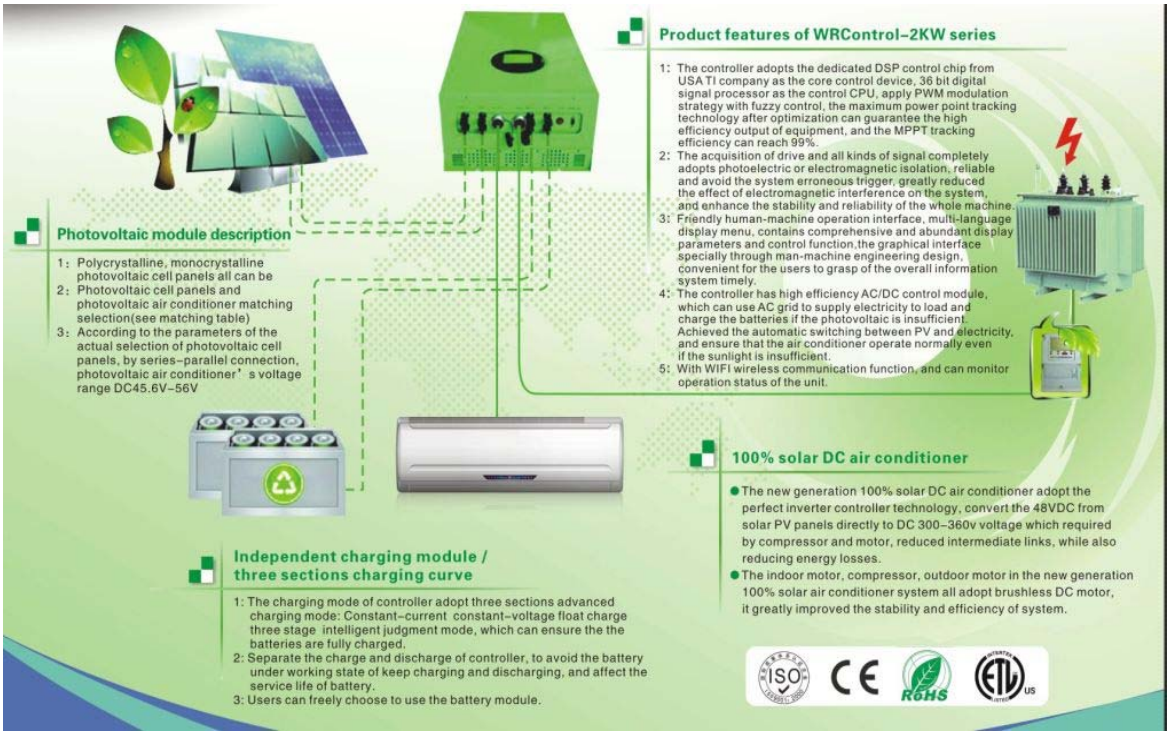

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