AC / DC

WIFI CONTROL EASYADJUSTMENT

Solar Air Conditioner

MECC
Recreate
DC
AC
16°C

Products Benefits

Help you to reduce the 40%-80% electricity bill

SEER up to 36 with solar, 22 without solar

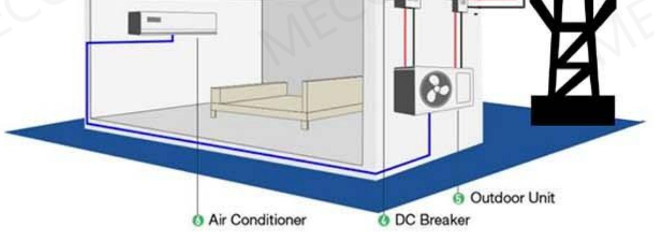
Enjoy cooling summer without grid in sunshine day

Lower investment than off-grid&on-grid solar energy system

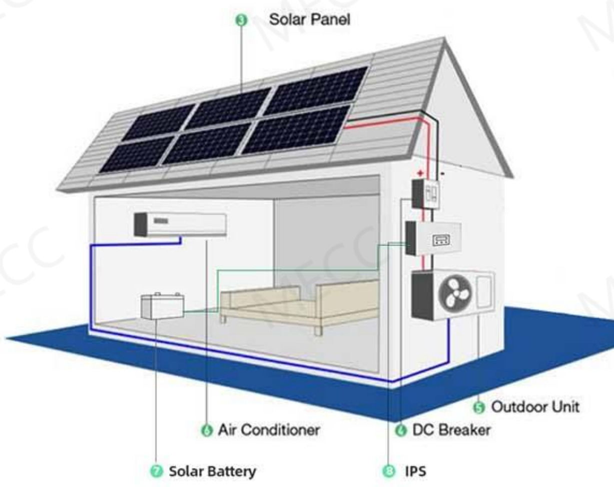
ncrease the value of your home

Reduce your carbon footprint

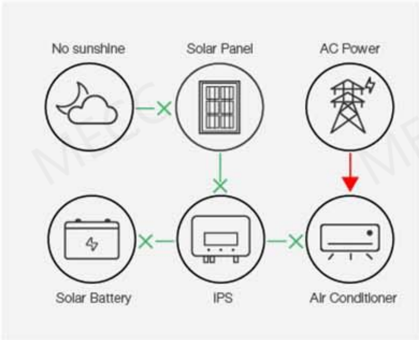
Wiring diagram

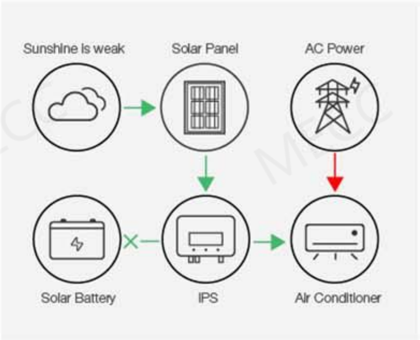

③ Solar Panel
② AC Breaker
① AC Power
⑥ Air Conditioner
④ DC Breaker
⑤ Outdoor Unit

MECC


③ Solar Panel
⑤ Outdoor Unit
⑥ Air Conditioner
④ DC Breaker
⑦ Solar Battery
⑧ IPS

Model1. With Grid Power


No sunshine
Solar Panel
AC Power
Solar Battery
IPS
Air Conditioner

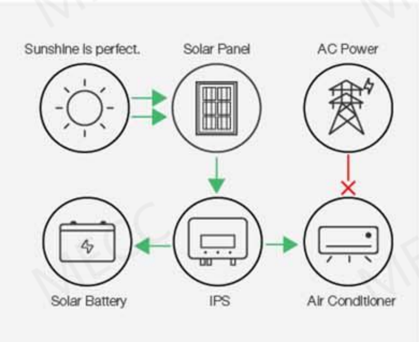

Sunshine is weak
Solar Panel
AC Power
Solar Battery
IPS
Air Conditioner

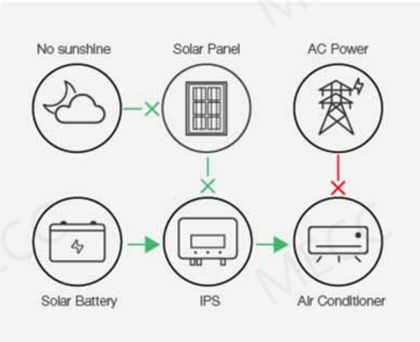
1. Grid Power

During the night, the A/C unit take the power from the grid power and running with same principle of regular air conditioner, the SEER is over 22, it can saving 20-30% energy compare with the regular A/C unit.

2. GRID AND SOLAR

When Sunshine is weak, like the morning or cloudy day. The A/C unit will take the solar as the priority choice, the insufficient power will take from the grid to make sure 24H working.


Sunshine is perfect.
Solar Panel
AC Power
Solar Battery
IPS
Air Conditioner


No sunshine
Solar Panel
AC Power
Solar Battery
IPS
Air Conditioner

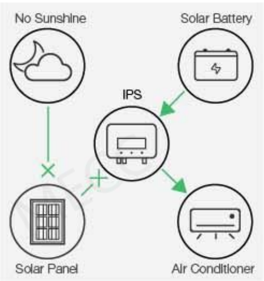
3. 100% Solar

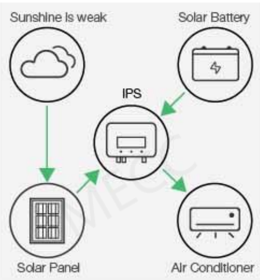
When solar energy meet the Min Running requirement of compressor, the A/C unit can start and operate by solar energy only, even the grid off. 100% energy saving. In same time, the system will charge the battery automatically.

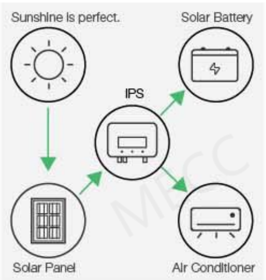
4. Grid Off

When the grid off or the customer turns off the grid power, the system will automatically take the battery energy to run the A/C unit, it will ensure you enjoy cooling summer in any situation.

Model2. Without Grid Power


No Sunshine
Solar Battery
IPS
Solar Panel
Air Conditioner


Sunshine is weak
Solar Battery
IPS
Solar Panel
Air Conditioner


Sunshine is perfect.
Solar Battery
IPS
Solar Panel
Air Conditioner

1. Battery Power

During the night or the solar energy is weak, the A/C unit takes the power from the battery to run the A/C Unit.

2. Battery & Solar

When Sunshine is weak. The A/C unit will take the solar as the priority choice, the insufficient power will take from the Battery.

3.100% Solar

When solar is sufficient, the A/C unit can start and operate by solar energy only. In same time, the system will charge the battery automatically.

Free Cooling In The Summer

SOLAR AIR CONDITIONER

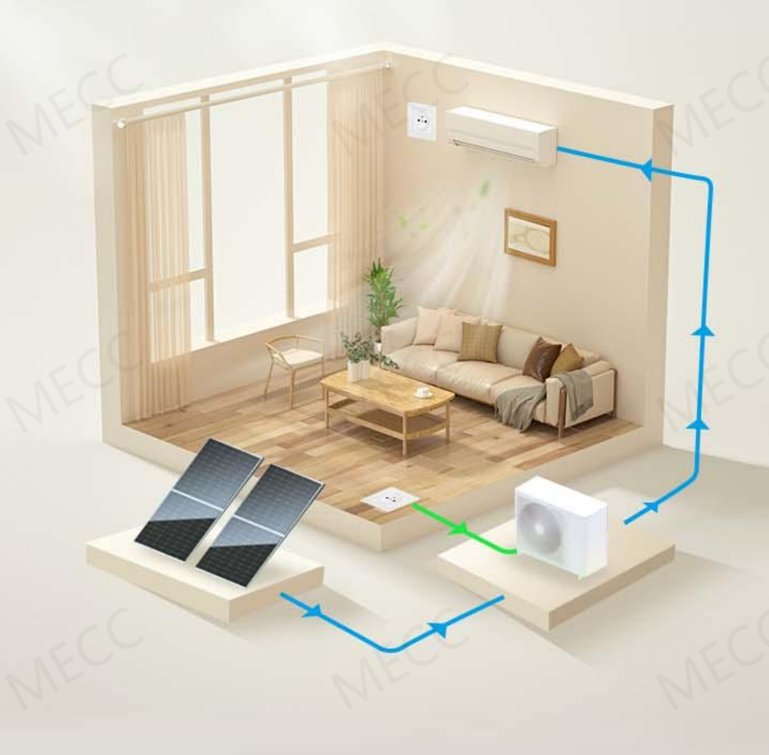
AC / DC

3 No Needed
No inverter, Battery Charge Controller needed

Auto-Balance
AC/DC Intelligent Switching

Max. SEER37
PVfit & DC-driven.

97% Saving
97% Saving in Daytime



Cool air is easy to handle

MECC
cold
hot

In Heating Mode
Rapid Heating to 40C in 60"

In Cooling Mode
Rapid Cooling to 18C in 30"

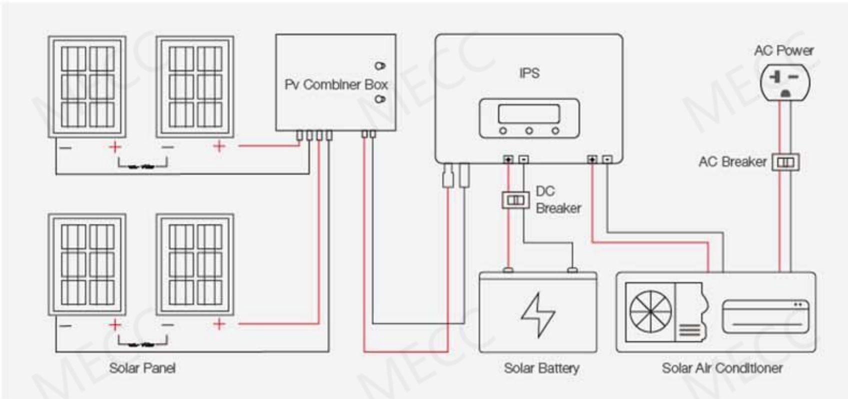
- **AC/DC auto-balance**
- **97% saving in adaytime**
- **PVfit&DC-driven**

Model	HYBRID-ACDC12	HYBRID-ACDC18	HYBRID-ACDC24

MECC

Capacity	Cooling		12,000Btu/ 1.5P/ 1.0Ton	18,000Btu/ 2.0P/ 1.5Ton	24,000Btu/ 3.0P/ 2.0Ton
	Heating		12,000Btu/ 1.5P/ 1.0Ton	18,000Btu/ 2.0P/ 1.5Ton	24,000Btu/ 3.0P/ 2.0Ton
Electric Data					
Power Input	Cooling	W	1000	1520	2450
	Heating	W	920	1480	2360
Rated Current	Cooling	A	4.6	7.1	11.4
	Heating	A	4.2	6.72	10.8
Power Supply		Ph,V,Hz	1Ph, 220V/50Hz	1Ph, 220V/50Hz	1Ph, 220V/50Hz
		V	DC100-380V	DC100-380V	DC100-380V
Performance					
EER	Cooling	W/W	3.5	3.36	2.93
	Heating	W/W	3.8	3.45	3.05
COP	Cooling	W/W	6.43	5.4	5.8
	Heating	W/W	3.2	3.2	2.92
Airflow	Indoor unit	M³/H	700	800	1100
Noise	Indoor unit	dB(A)	24-37-41	30-42-45	38-44-46
	Outdoor unit	dB(A)	52	54	56
Dimonsion & Weight					
Dimonsion & Weight (Wx H x D)	Indoor unit	MM	890*322*215	890*322*215	1078*325*257
	Outdoor unit	MM	797*556*336	874*559*353	989*715*400
Body Dimension (Wx H x D)		MM	965*395*286	960*333*275	1169*405*366
	Outdoor unit	MM	855*600*367	913*604*383	1039*780*468
Net Weight	Indoor unit	KG	11/13	11/13	16/20
	Outdoor unit	KG	25/28	31/34	44/49
Loading Quantity (units only)	40'HQ	PCS	230	230	123
Swing(U&D, L&R)		/	U&D	U&D	U&D, L&R
Liquid Quantity (R32)		KG	0.62	0.85	1.03
Application Area	Cooling	M²	16-22	15-30	35-45
	Heating		16-22	15-30	33-40

R32 ECO Refrigerant
Solar Driven
Solar Loop
GMCC/HIGHLY Compressor
WIFI Control
ECO Mode
Left/Right Swing
20% Faster Cooling/Heating
Moisture Removal
Self Cleaning
High Density Filter


Pv Combiner Box
IPS
AC Power
AC Breaker
DC Breaker
Solar Panel
Solar Battery
Solar Air Conditioner

Product list

LiFePO4
LITHIUM IRON PHOSPHATE
100Ah
UN38.3
MECC

Patent certificate