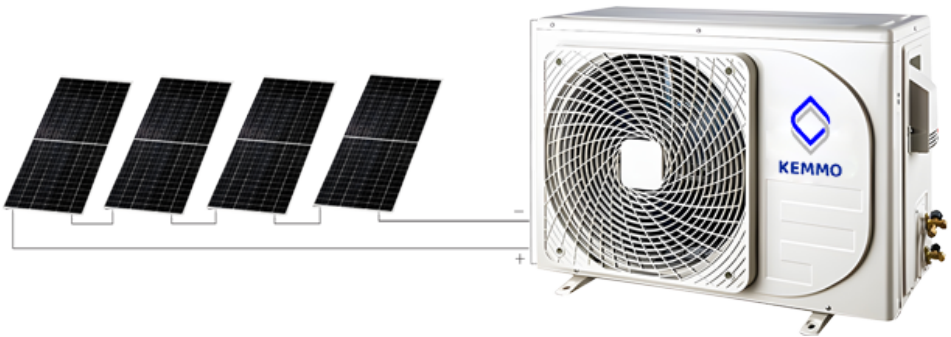# KEMMO

**Your Escape Erom the Summer Heat**

# KEMMO Solar Air Conditioner

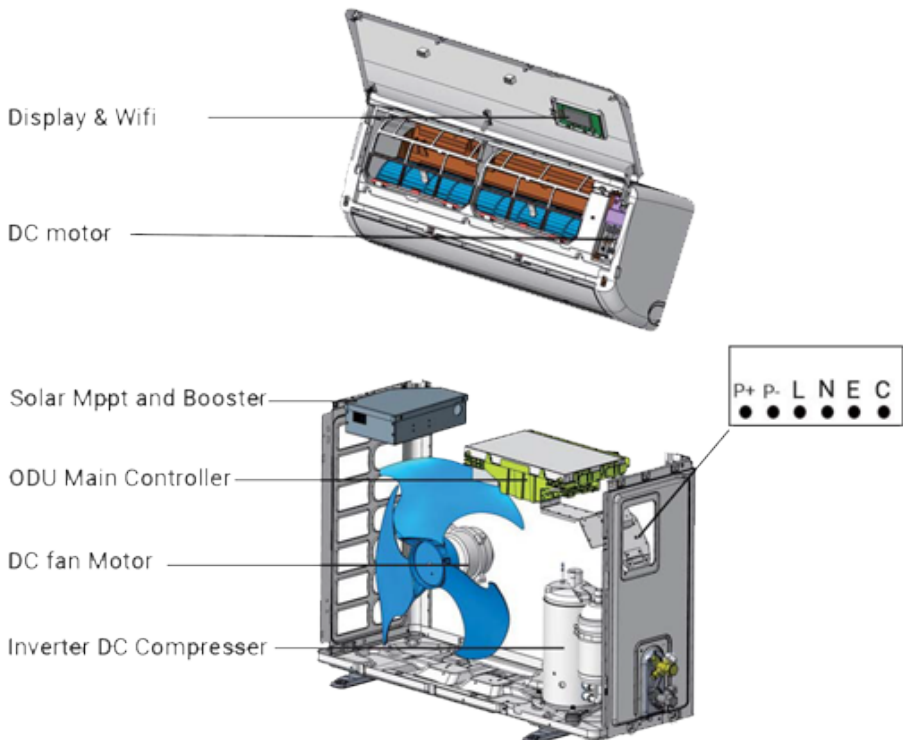**WhatsApp:** +86 195 5849 3283

**Address:** Yiwu International Trade City,2nd Floor Zone 2 - CHINA
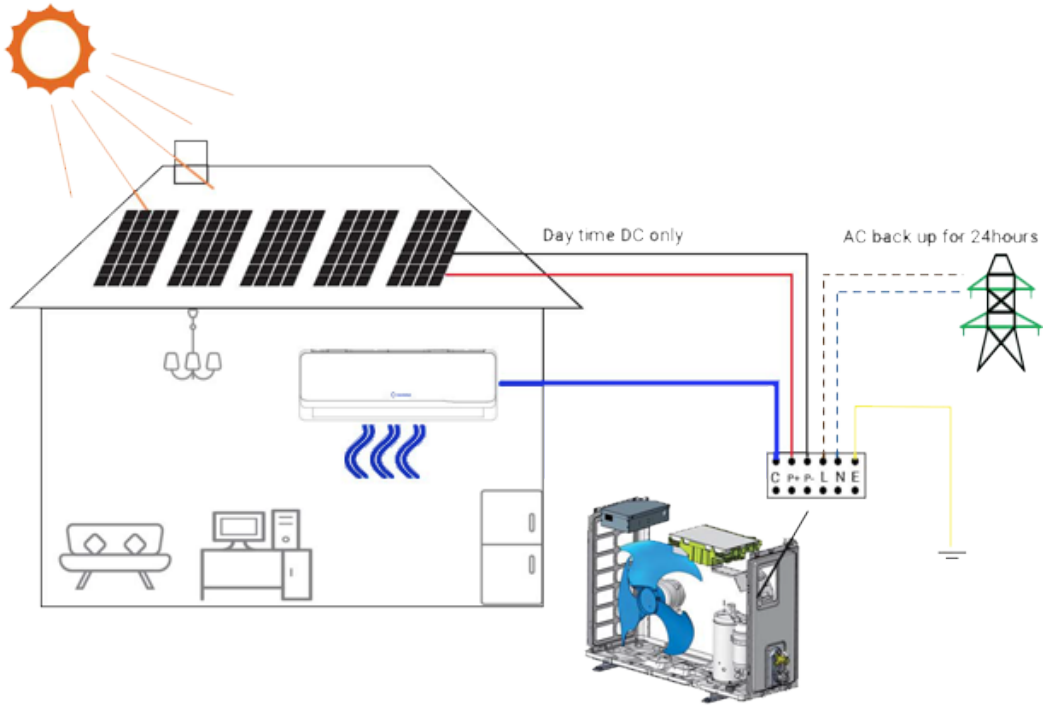
# Hybrid AC/DC

**KEMMO[4th]** generation hybrid ACDC solar air conditioner is based on full DC inverter air conditioner VRF technology. The main components of our unit is DC inverter compressor, DC fan motor, solar MPPT booster
and inverter air conditioner controller.

The hybrid ACDC unit power supply from outdoor unit, it has MC4 connector P+/P- for DC solar panel directly power supply, it has (L/N/E for AC grid power supply. And indoor unit connect with outdoor unit by connection cable. Please check below structure design.

Display & Wifi

DC motor

Solar Mppt and Booster

ODU Main Controller

DC fan Motor

Inverter DC Compresser

P+ P- L N E C

Day time DC only

AC back up for 24hours

C P+ P- L N E

**KEMMO**[4th] generation hybrid ACDC solar air conditioner works with solar panel unstable DC power directly from 7am to 17pm day time with power minimum 300w, no need solar inverter, no need grid power, no need ba tery.

Rainy day, it will works mix power AC+DC and priority from solar power.

At night, it automatically get grid AC power same as DAIKIN high efficiency normal inverter air conditioner. The unit with WiFi function can be controlled anywhere through WiFi or Bluetooth, and App with DC power meter and AC power meter, you can fully check how much energy saving or using energy through APP smart power meter function.
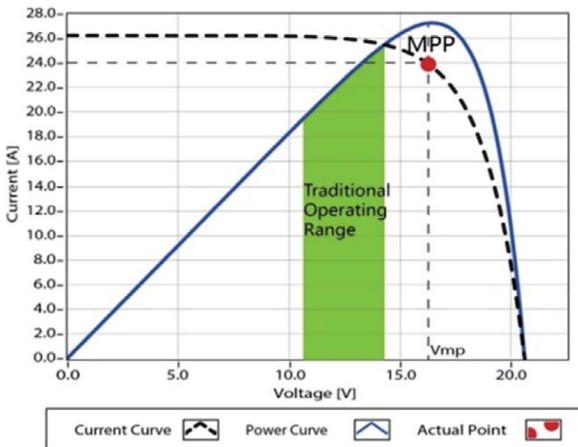
# Hybrid AC/DC
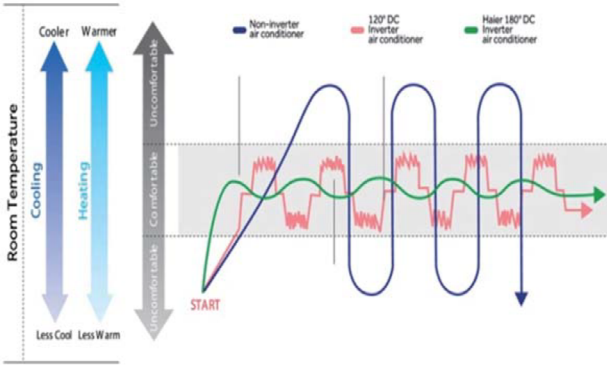




Twin Rotary Compresso

**KEMMO** havs own 180°sine wave DC inverter controller technology for inverter air conditioner, "SVPWM" which makes the compressor ran at low frequency below 0.1Hz, improve the utilization of the DC compressor by 13% compared with 120 DC inverter controller technology. By 32% compared with Non-inverter air conditioner

## (Patent Number: ZL 2009 1 0127633.8)



80V-380V Mppt

MPPT efficiency:99.9%

DC to DC

0 convert lose

10+ years life design

## WiFi Smart Control
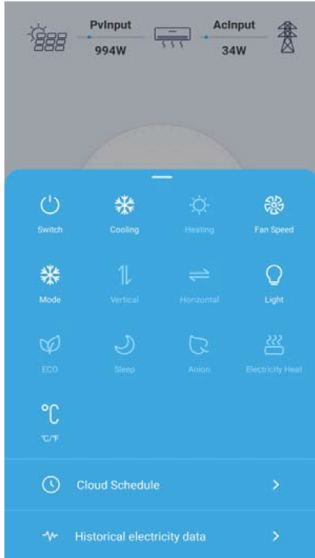
## App power meter

## Solar & Grid Indicator



Use WiFi or Bluetooth to control solar air conditioner anywhere.

Share device to your family member

Timer setting On & Off

Control multi devices in one APP

Check below data from App power meter:

DC power input

AC power input

Total saving by solar

Total power using

Daily/Months/yearly power data

Solar Aircon



Scan QRCode for App smart control

# Hybrid AC/DC



| Model | Solar panel In Series connection | QTY | |
|---|---|---|---|
| DGWA1-ACDCBLW-12K WiFi 12000BTU/ 1.5P/ 1 Ton |  | (280-400W) 4pcs | |
| | | (400-500W) 3pcs | |
| DGWA1-ACDCBLW-18K WiFi 18000BTU/ 2P/ 1.5 Ton |  | (280-400W) 6pcs | |
| | | (400-500W) 5pcs | |
| DGWA1-ACDCBLW-24K WiFi 24000BTU/ 3P / 2 Ton |  | (280-400W) 8pcs | |
| | | (400-500W) 7pcs | |

| Packing list | | |
|---|---|---|
| Carton | Name | QTY |
| Indoor package | Indoor unit | 1 |
| | Remote controller | 1 |
| | Drain Pipe | 1 |
| | Installation manual | 1 |
| | user manual | 1 |
| | Hanger plate | 1 |
| | Indoor & Outdoor Cable | 1 |
| | Mc4 connector | 2 |
| | Accessory Bag | 1 |
| Outdoor package | Outdoor unit | 1 |
| | Copper connection Pipe | 2 |
| | Scotch tape | 1 |

# Hybrid AC/DC

# 12000btu  18000btu  24000btu

| T1/T3 Hybrid ACDC Solar Air Conditioner | | | | | |
|---|---|---|---|---|---|
| Model | Unit | | 12000BTU | 18000BTU | 24000BTU |
| Power Supply | AC Power | Ph-V-Hz | 1Ph 208V-240V/50-60HZ | 1Ph 208V-240V/50-60HZ | 1Ph 208V-240V/50-60HZ |
| | DC Power (PV in Series) | V | 80-380V | 80-380V | 80-380V |
| | DC Power Current | A | </=12A | </=12A | </=12A |
| Adviced Solar Panel | | Pcs | (3-4)*330W in series | (3-6)*330W in series | (3-8)*330W in series |
| Rated Cooling | Capacity | W | 3510(900-3900) | 5070(1200-6000) | 6450(1800-7900) |
| | | BTU | 12000(3000-13300) | 17300(4100-20400) | 22000(6100-27000) |
| | Power input | W | 940(190-1270) | 1400(220-2100) | 1790(300-3200) |
| Rated Heating | Capacity | W | 4100(1000-4500) | 6100(1200-6800) | 7800(1800-9100) |
| | Power input | W | 1170(190-1700) | 1770(220-2500) | 2290(300-3500) |
| T1  EER  (W/W)/ (BTU/W) | | / | 3.75/12.75 | 3.60/12.35 | 3.60/12.30 |
| COP  (W/W)/ (BTU/W) | | / | 3.50/11.95 | 3.45/11.75 | 3.40/11.60 |
| Dehumidification capacity | | L/h | 1.3 | 1.7 | 2.5 |
| Compressor | Model | / | WHP04200 | WHP05600 | 5RD198 |
| | Type | / | 2xRotary Inverter | 2xRotary Inverter | 2xRotary Inverter |
| | Brand | / | Highly | Highly | Panasonic |
| Indoor fan motor | Model | | BLDC-15W | BLDC-45W | BLDC-45W |
| Indoor noise level (Turbo) | | dB(A) | 42.5 | 46 | 50 |
| Indoor unit | Dimension(W×H×D) | mm | 840×205×295 | 1080×330×237 | 1080×330×237 |
| | Packing  (W×H×D) | mm | 920×290×360 | 1140×300×382 | 1140×300×382 |
| | Net weight/Gross weight | Kg | 9.0/12.5 | 15.0/18.5 | 15.0/18.5 |
| Outdoor fan motor | Model | / | BLDC-40W | BLDC-55W | BLDC-75W |
| Outdoor noise level | | dB(A) | ?52 | ?55 | ?58 |
| Outdoor unit | Dimension(W×H×D) | mm | 802×564×323 | 802×564×323 | 900×700×337 |
| | Packing  (W×H×D) | mm | 910×622×405 | 910×622×405 | 1006×755×418 |
| | Net/Gross weight | Kg | 33.5/37.5 | 37/42.0 | 50/54.5 |
| Refrigerant type | | / | R410A | R410A | R410A |
| Max Design pressure | | MPa | 4.3/1.5 | 4.3/1.5 | 4.3/1.5 |
| Refrigerant copper pipe | Gas side/Liquid side (inch) | inch | 3/8  1/4 | 1/2  1/4 | 1/2  1/4 |
| | Max. refrigerant pipe length | m | 15 | 20 | 25 |
| | Max. difference in level | m | 8 | 10 | 10 |
| Refrigerant connction copper pipe length | | m | 3 | 4 | 4 |
| Connection wire length | | m | 4 | 5 | 5 |
| Electronic Expansion Valve | | / | Yes | Yes | Yes |
| Loading QTY 40" Hq/ 20"GP | | Sets | 200/85 | 160/75 | 115/50 |