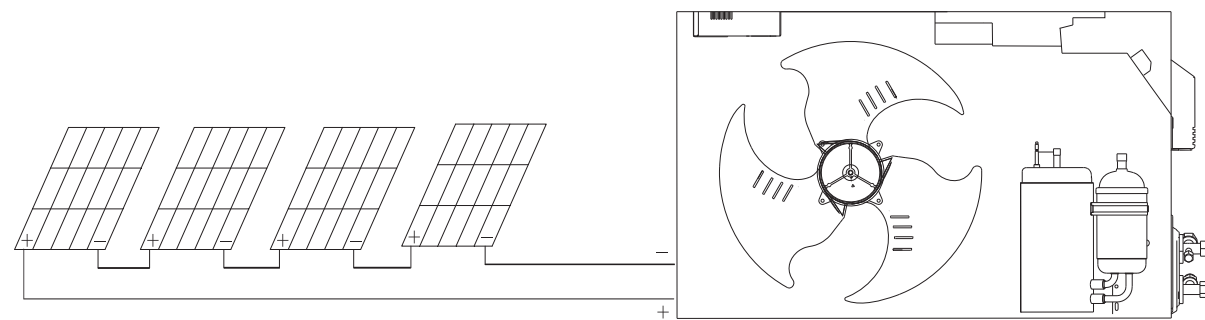
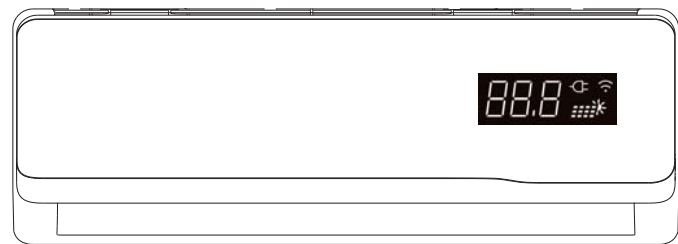




Deye Solar Air Conditioner



ABOUT OUR COMPANY



1990, Deye Technology Group was established by group president Mr Zhang Hejun, located in Ningbo China.

2007, Deye technology Group developed 180°sine wave DC inverter controller for air conditioning, and mastered the core algorithm, Developed "SVPWM" which makes the compressor ran at low frequency below 0.1Hz, improve the utilization of the DC voltage of the compressor rate up to 13%, Thus laid the company's overwhelming dominance in the field.

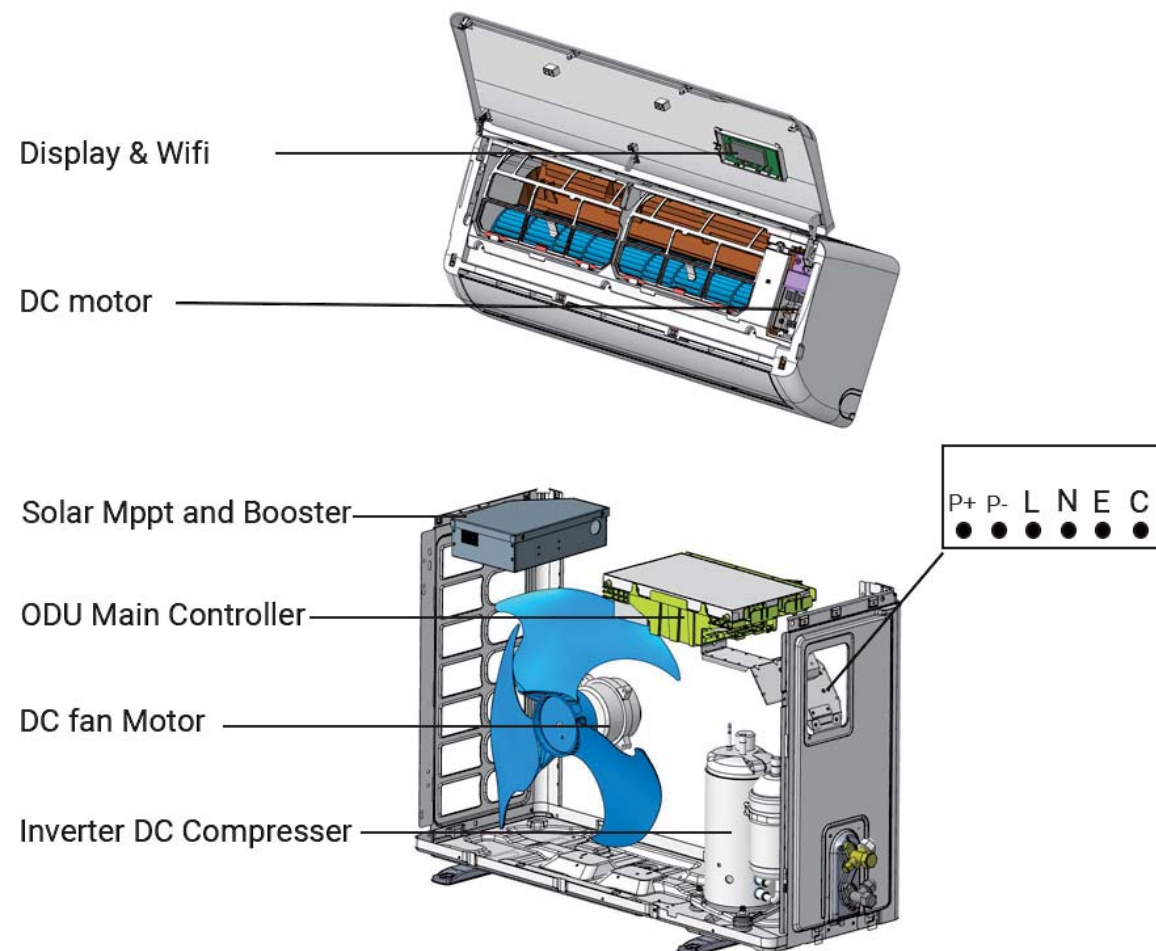
2015, Group branch company, Ningbo Deye Inverter Technology Co., Ltd successfully listed on the new three-board, becoming a core enterprise of the inverter technology industry. Covering solar inverter, inverter air conditioner controller, DC solar water pump controller and heat pump air conditioner products.

After 20 years development, the group has become Midea, Haier, TCL, AUX, and other domestic appliances trusted strategic partner. Owns the technology of variable frequency control system, 600W-80KW solar inverter, household appliances, heat exchanger products four core industrial chain, with Ningbo headquarters Guangdong and Shunde production bases, covering 130000 , 1700 employee.

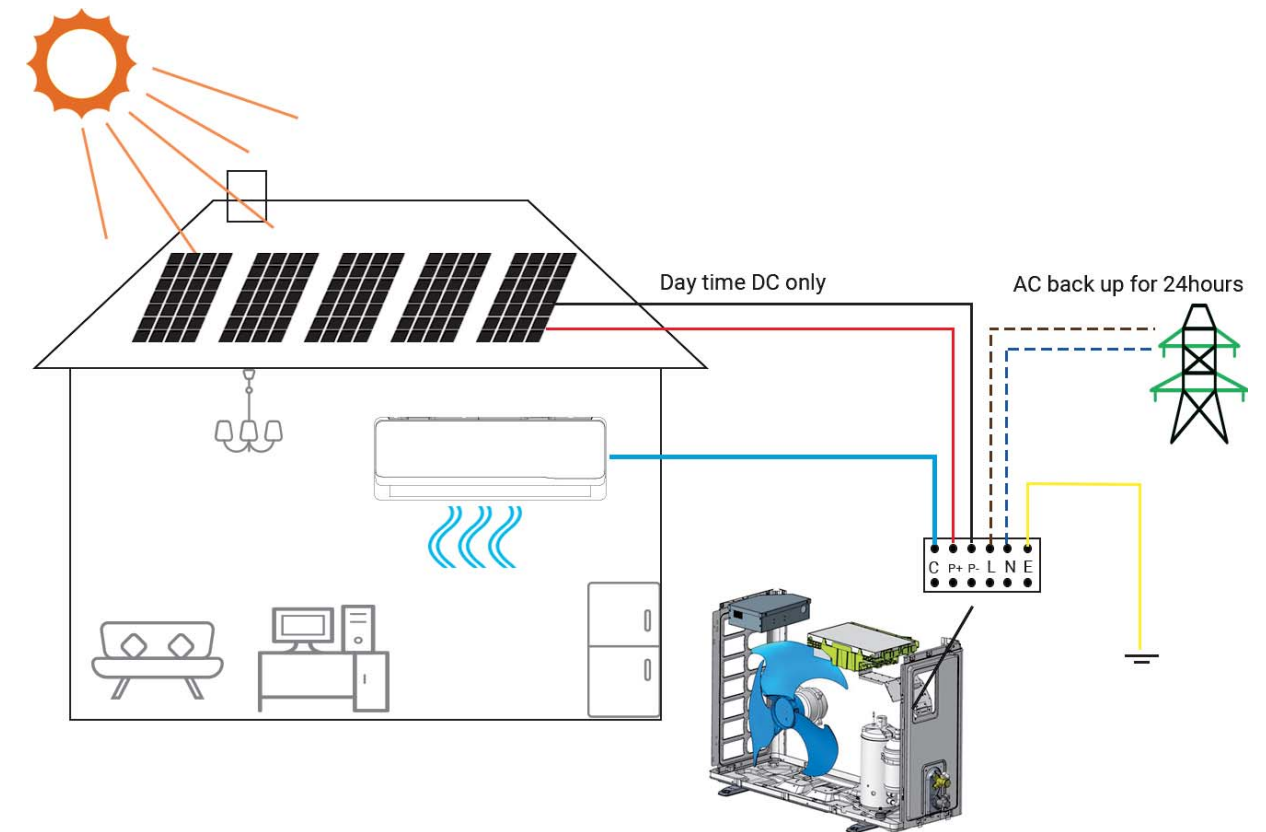
Hybrid AC/DC

Deye 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.

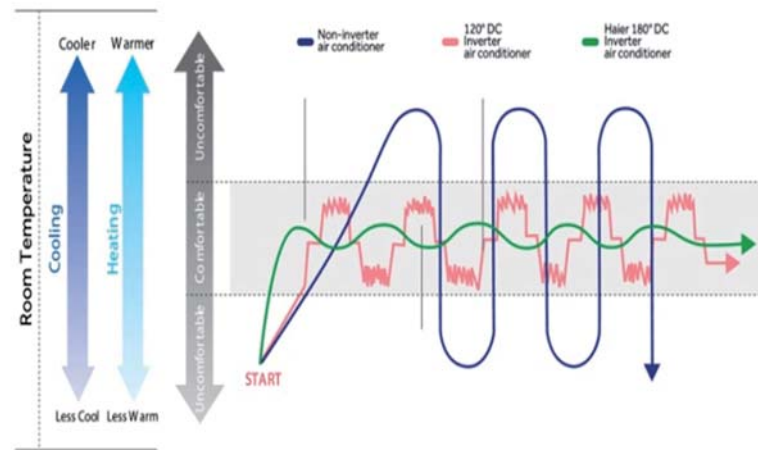


Hybrid AC/DC



Deye 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 battery. 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.

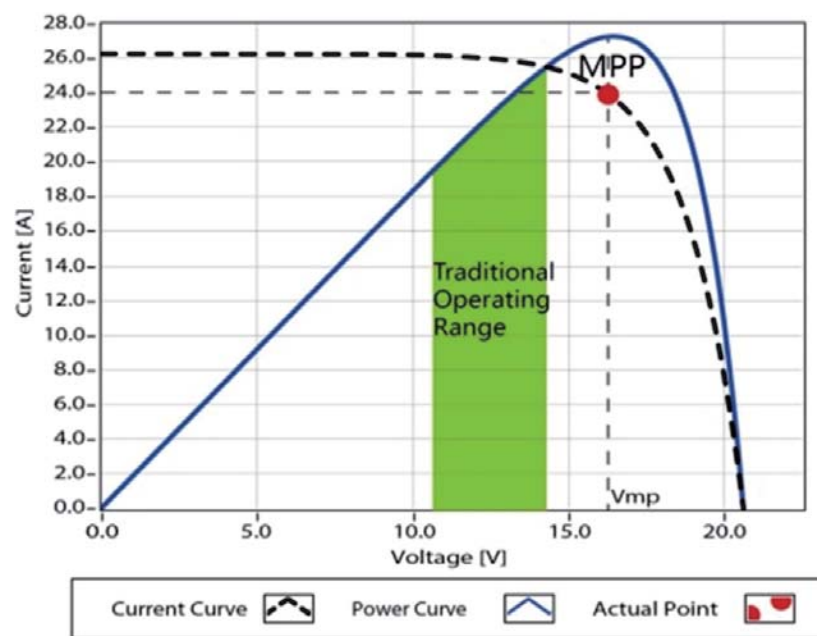
Hybrid AC/DC



Twin Rotary Compressor

Deye has 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)

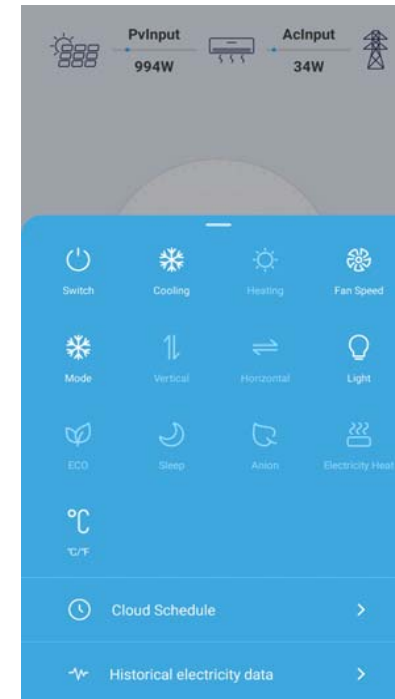


80V-380V Mppt

MPPT efficiency:99.9%
 DC to DC
 0 convert lose
 10+ years life design

Hybrid AC/DC

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 |
| Advised 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 | BTU | 12000(3000-13300) | 17300(4100-20400) | 22000(6100-27000) |
| Rated Heating | Power input | W | 940(190-1270) | 1400(220-2100) | 1790(300-3200) |
| | Capacity | W | 4100(1000-4500) | 6100(1200-6800) | 7800(1800-9100) |
| Rated Heating | 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) | 752 | 755 | 758 |
| 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 |

OFF GRID DC 48V



| DC 48V Solar Air Conditioner | | | Suggested Accessories | | |
|------------------------------|-------------------------|---------------|-----------------------|-------------|-----------|
| Model | Power input (w) Average | Work Time (h) | Solar Panel | Battery | Charger |
| 9000BTU | 500 | 8+8 | 330W*4 | 12V 100ah*4 | 48V 60A |
| 12000BTU | 800 | 8+8 | 330W*6 | 12V 150ah*4 | 48V 60A |
| 18000BTU | 1300 | 8+8 | 330W*12 | 12V 200ah*8 | 48V 60A |
| 24000BTU | 1700 | 8+8 | 330W*18 | 12V 250ah*8 | 48V 60A*2 |

Deye DC48V solar air conditioner works with DC battery power 46V to 58V directly. The air conditioner part installation is same with normal inverter air conditioner installation. For off grid solar part installation with charge controller please get solar engineer finish with right calculation.

OFF GRID DC 48V

| DC48V off grid Solar Air Conditioner | | | | | | |
|---|-------------------|-------|------------------|-------------------|-------------------|-------------------|
| Model | | | DGWA1-DC48V-09K | DGWA1-DC48V-12K | DGWA1-DC48V-18K | DGWA1-DC48V-24K |
| Climate Type | Tropical<= 58 | | T1/T3 | T1/T3 | T1/T3 | T1/T3 |
| Power supply | Battery | DC | DC48V(46~58V) | DC48V(46~58V) | DC48V(46~58V) | DC48V(46~58V) |
| Rated Cooling | Capacity(T1) | W | 2600(1000-3400) | 3510(1000-3700) | 5070(1200-5250) | 6450(2500-7000) |
| | | BTU | 9000(3400-11600) | 12000(3400-12600) | 17300(4100-18000) | 22000(8500-23900) |
| Rated Heating | Power input(T1) | W | 680(180-1060) | 980(200-1200) | 1450(220-1780) | 1840(450-2230) |
| | | W | 2900(800-3050) | 3900(1000-4100) | 5250(1200-5500) | 7000(2000-7350) |
| T1 EER (W/W)/(BTU/W) | COP (W/W)/(BTU/W) | W | 3.90/13.20 | 3.60/12.25 | 3.50/11.8 | 3.50/11.85 |
| | | W | 830(160-950) | 1130(180-1280) | 1400(220-1830) | 2050(390-2350) |
| Dehumidification capacity | | L/h | 1.0 | 1.3 | 1.7 | 2.5 |
| Compressor | Model | / | ASK89D53UEZ | ASN98D22UFZ | WHP05600 | 5RD198 |
| | Type | / | Rotary Inverter | Rotary Inverter | 2xRotary Inverter | 2xRotary Inverter |
| | Brand | / | GMCC | GMCC | HIGHLY | Panasonic |
| Indoor fan motor | Model | / | BLDC 15W | BLDC 15W | BLDC 45W | BLDC 45W |
| Indoor noise level (Turbo) | | dB(A) | 40 | 42.5 | 46 | 50 |
| Indoor unit | Dimension(W×H×D) | mm | 840×205×295 | 840×205×295 | 1080×330×237 | 1080×330×237 |
| | Packing (W×H×D) | mm | 920×290×360 | 920×290×360 | 1140×300×382 | 1140×300×382 |
| | Net/Gross weight | Kg | 9.0/12.5 | 9.0/12.5 | 15.0/18.5 | 15.0/18.5 |
| Outdoor fan motor | Model | / | BLDC 40W | BLDC 40W | BLDC 55W | BLDC 75W |
| Outdoor coil | a.Number of rows | / | 1 | 2 | 2 | 2 |
| Outdoor noise level | | dB(A) | 51 | 52 | 55 | 58 |
| Outdoor unit | Dimension(W×H×D) | mm | 802×564×323 | 802×564×323 | 802×564×323 | 900×700×337 |
| | Packing (W×H×D) | mm | 910×622×405 | 910×622×405 | 910×622×405 | 1006×755×418 |
| | Net/Gross weight | Kg | 28.0/32.0 | 32.0/36.0 | 36.0/40.0 | 51/56 |
| Refrigerant type | | / | R410a | R410a | R410a | R410a |
| Max Design pressure (Discharge/Suction) | | MPa | 4.3/1.5 | 4.3/1.5 | 4.3/1.5 | 4.3/1.1 |
| Refrigerant pipinglength | | m | 3 | 3 | 4 | 4 |