

605117
STOCK CODE



Solar Air Conditioner Series



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#2025



Zhejiang Deye HVAC Technology Co.,LTD

Deye Technology Co., Ltd. is a comprehensive tech manufacturing enterprise, integrating R&D, design, production, sales, and service. It operates modern intelligent production facilities in Ningbo, Jiaxing, and other locations, spanning over 600,000 square meters with complete production and testing equipment.

Listed on the Shanghai Stock Exchange in April 2021.

Deye is committed to continuous innovation with significant R&D capabilities in Shanghai and Ningbo, employing over 500 top-tier researchers and thousands of technical staff.

600000m²
Total Area

5000+
Employees

2021
A-Share Listed

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Solar Air Conditioner



ACDC HYBRID



DC Inverter



WIFI control



Hybrid Solar



Build in Solar MPPT

- Intelligent control for detection and adjustment
- Efficiency: 99.9%
- DC to DC 0 conversion lose
- 10+ years life design

SVPWM technology

- 180° sine wave controller technology
- Compressor runs below 0.1Hz
- Operate during 50% voltage drop

Solar AC advantage

ITEM
AC Power supply (220V 50/60HZ)
DC Power supply (80VDC-380VDC)
AC+DC Mix Power
No electricity works
App smart control
App smart power meter
Soft power start
Average Energy saving

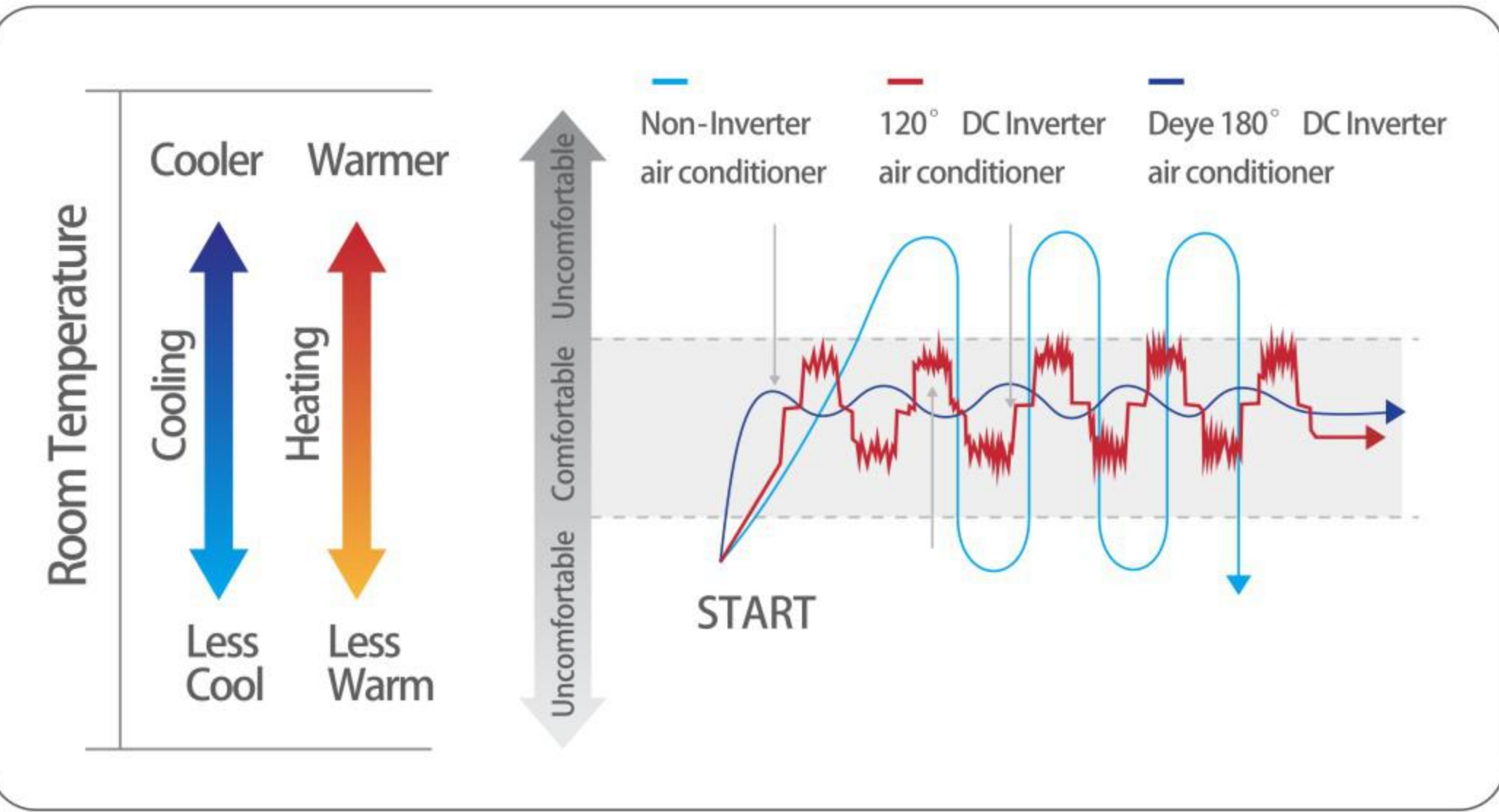
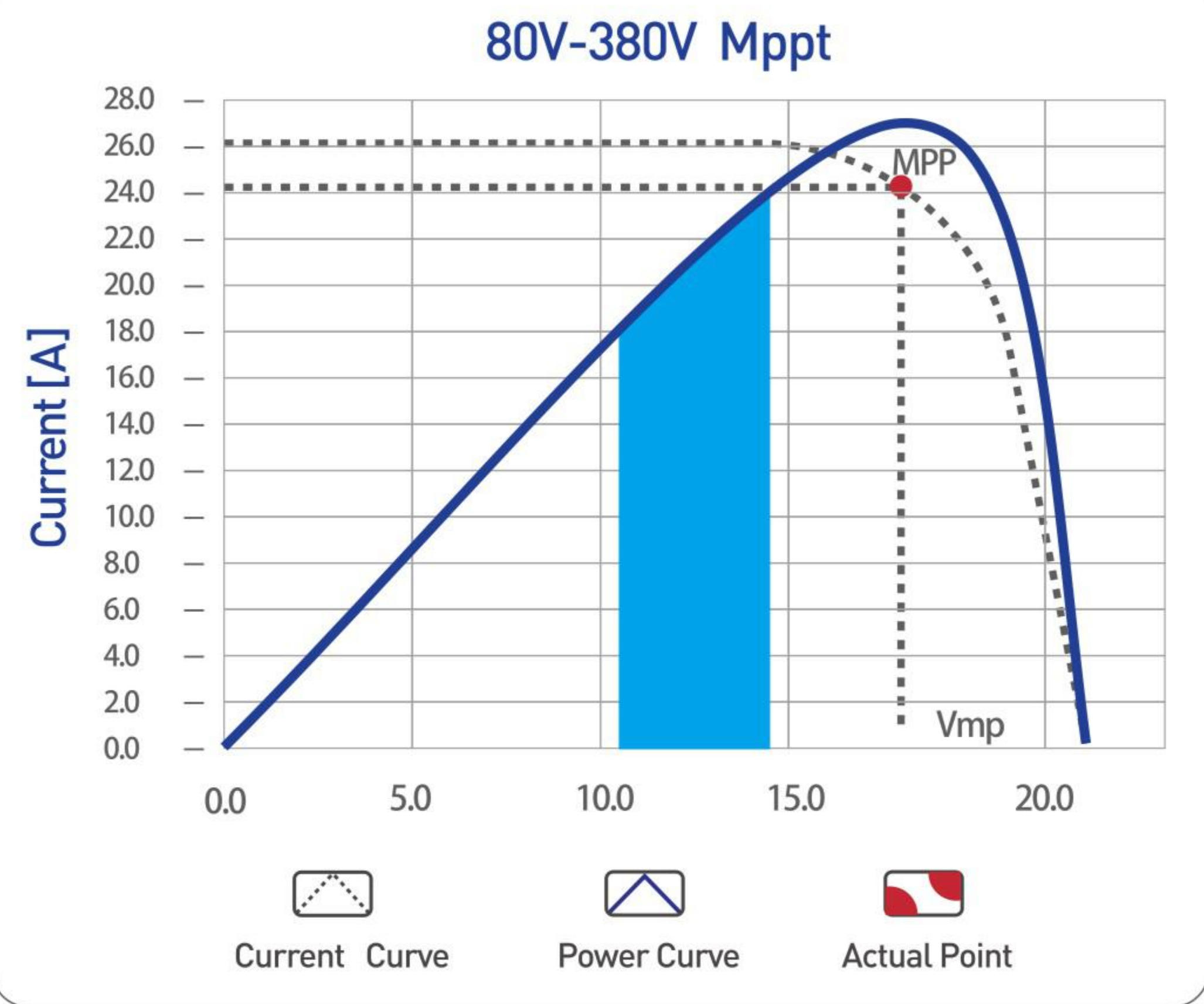
DEYE Hybrid Solar AC

Y
Y
Y
Y
Y
Y
Y
60-100%

Conventional Inverter

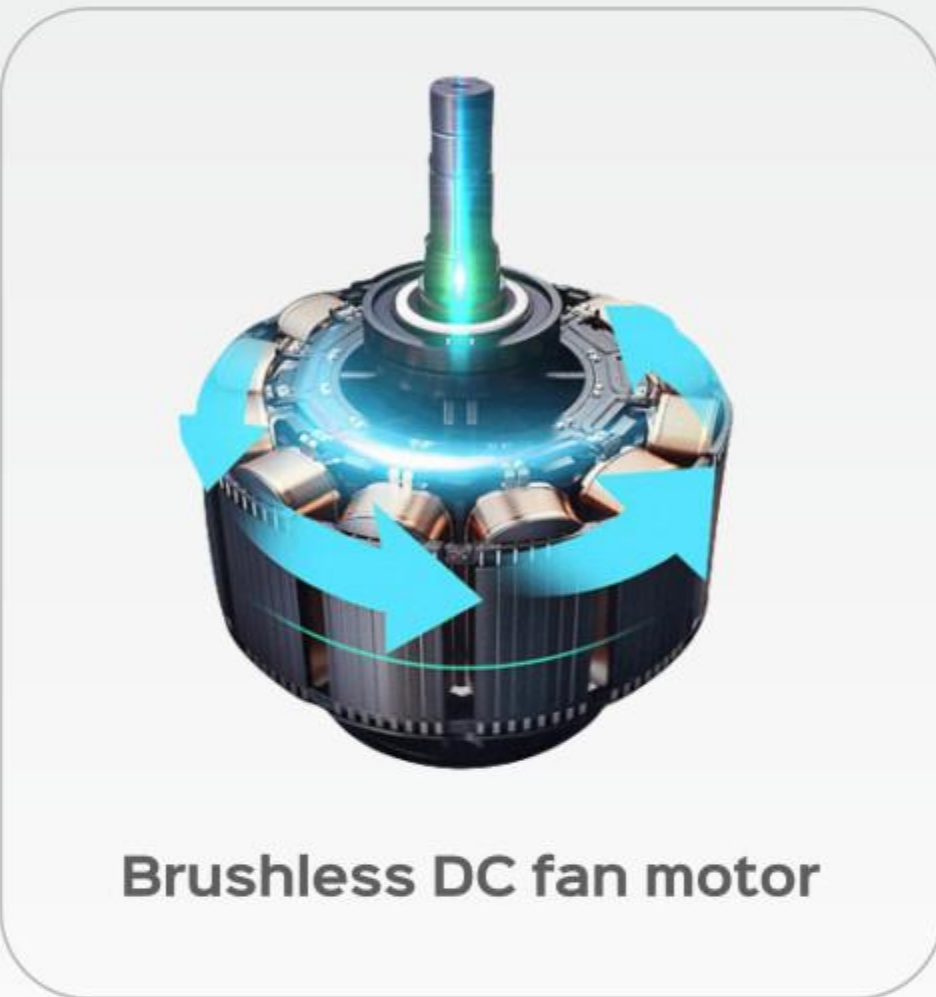
Y
N
N
N
Depends
N
N
20%

Solar AC technology





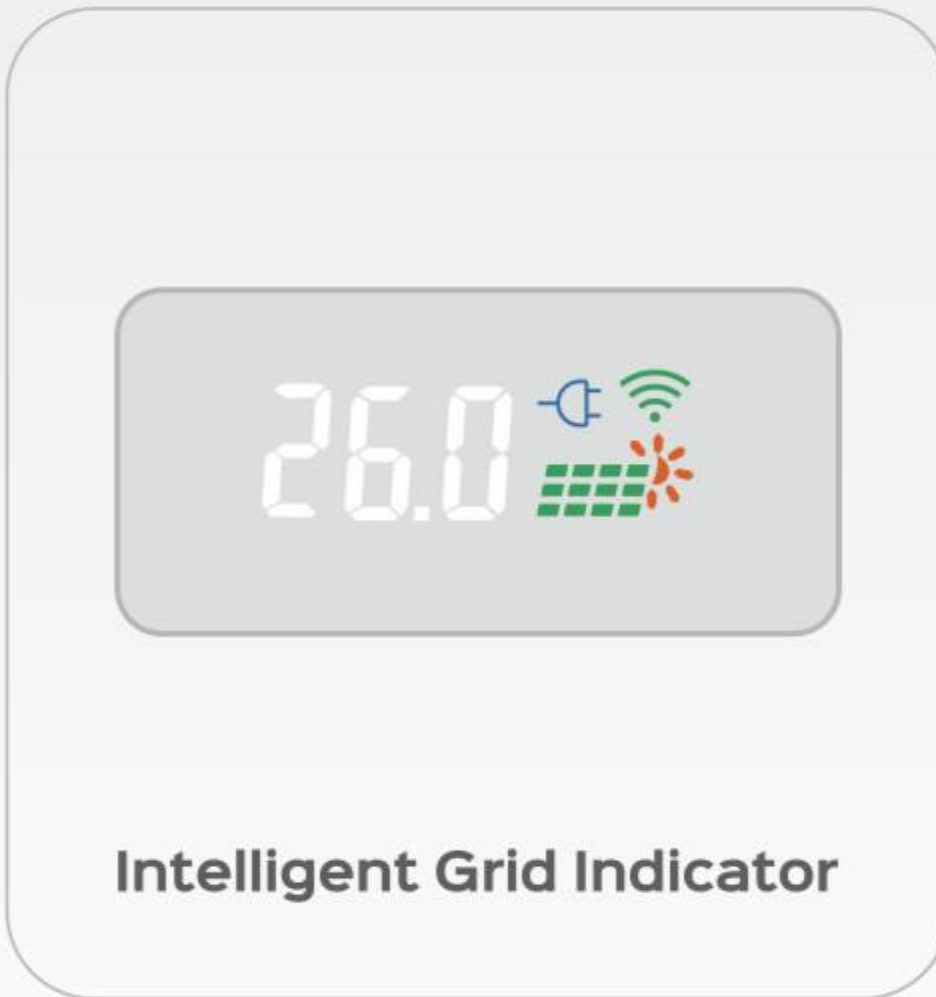
Key components



Brushless DC fan motor



Twin Rotary DC Compressor



Intelligent Grid Indicator

WiFi Smart Control



Designed for end-user



Easy setting



Monitor unit make energy saving visible



Convenient & long-range remote control



Technical Specifications



ACDC R410A

Items	Unit	12000BTU	18000BTU	24000BTU
Mode	/	DGWA2-ACDC-12K	DGWA1-ACDC-18K	DGWA1-ACDC-24K
Solar Power Voltage	V	80~380	80~380	80~380
Grid Power Voltage	V/Hz	208V~240V/50~60Hz	208V~240V/50~60Hz	208V~240V/50~60Hz
Cooling Capacity (T1)	BTU	12000(3000-13300)	17300(4100-20400)	22000(6100-27000)
Cooling power input (T1)	W	940(190-1270)	1400(220-2100)	1790(300~3200)
Heating Capacity	W	3600(900-3960)	5150(1500~5250)	7000(1800-7200)
Heating power input	W	940(180~1250)	1260(250~1410)	2030(340~2150)
EER	BTU/W	12.76	12.36	12.29
Indoor unit Dimension(WxHxD)	mm	840x205x295	1080x330x237	1080x330x237
Indoor unit Packing(WxHxD)	mm	920x290x360	1140x300x382	1140x362x300
Outdoor unit Dimension (WxHxD)	mm	802x564x323	802x564x323	900x700x337
Outdoor unit Packing (WxHxD)	mm	910x622x405	910x622x405	1006x755x418



100% Eco
Up to 100% saving in the day time



Grid AC Power Limiter
Limit AC power from 0-300W



Savings
No Inverter, battery, or Charger controller needed



Wide Operating Temperature
Temperature Range between -10°C to +60°C



Max Efficiency
DC-driven

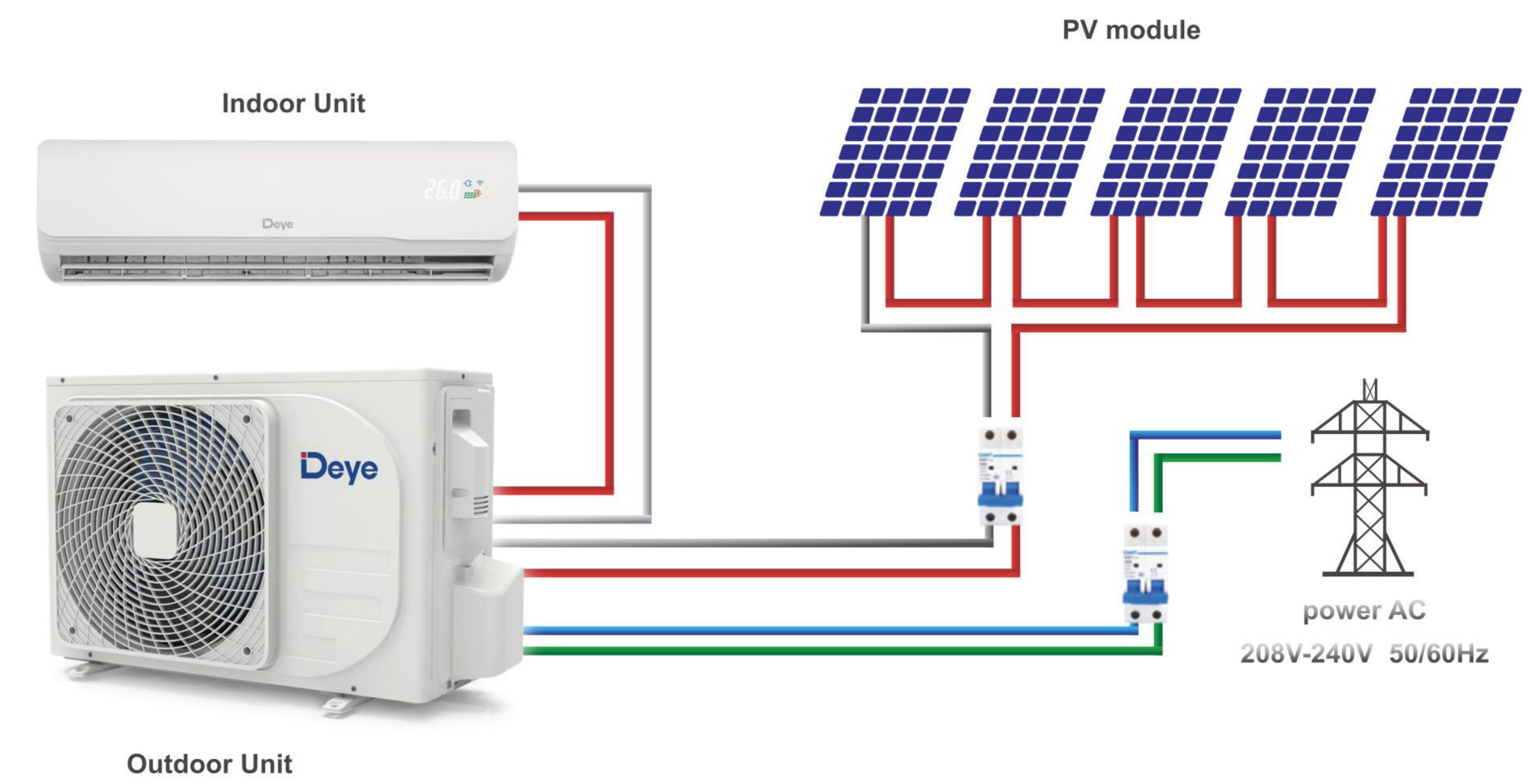


Auto-Balance
AC/DC auto-balance





Items	Unit	9000BTU	12000BTU	18000BTU	24000BTU
Mode		DWGA21-ACDCBLW-09KR2(EU)	DGWA21-ACDCBLW-12KR2(EU)	DGWA5-ACDCBLW-18KR2(EU)	DGWA6-ACDCBLW-24KR2(EU)
Solar Power Voltage	V	80~380	80~380	80~380	80~380
Grid Power Voltage	V/Hz	208V~240V/50~60Hz	208V~240V/50~60Hz	208V~240V/50~60Hz	208V~240V/50~60Hz
Cooling Capacity	W	2700(800-3500)	3500(800~3900)	5010(1300~5850)	6400(1800~7800)
Cooling power input	W	620(150-1000)	860(150~1100)	1250(220~1670)	1690(340~2550)
Heating Capacity	W	3100(900-4000)	3500(900~4200)	5010(1300~5200)	7030(1800~7800)
Heating power input	W	680(150-1150)	870(150~1200)	1200(220~1420)	1780(320~2190)
EER	W/W	4.35/14.50	3.70/12.50	3.60/12.25	3.60/12.25
Indoor unit Dimension (WxHxD) mm		840x205x295	840x205x295	1080x330x237	1080x330x237
Indoor unit Packing (WxHxD) mm		920x290x360	920x290x360	1140x300x382	1140x362x300
Outdoor unit Dimension (WxHxD) mm		802x564x323	802x564x323	802x564x323	900x700x337
Outdoor unit Packing (WxHxD) mm		910x622x405	910x622x405	910x622x405	1006x755x418



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Full DC Inverter tech



MPPT



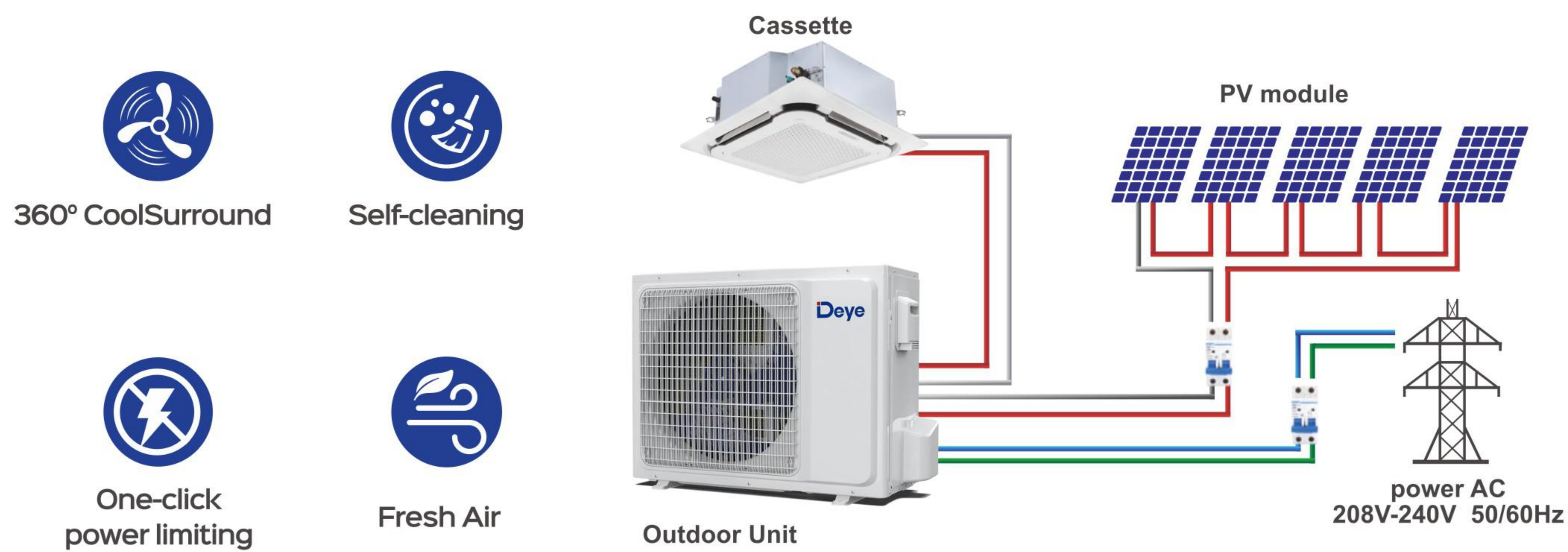
Hybrid Solar

Solar AC Cassette

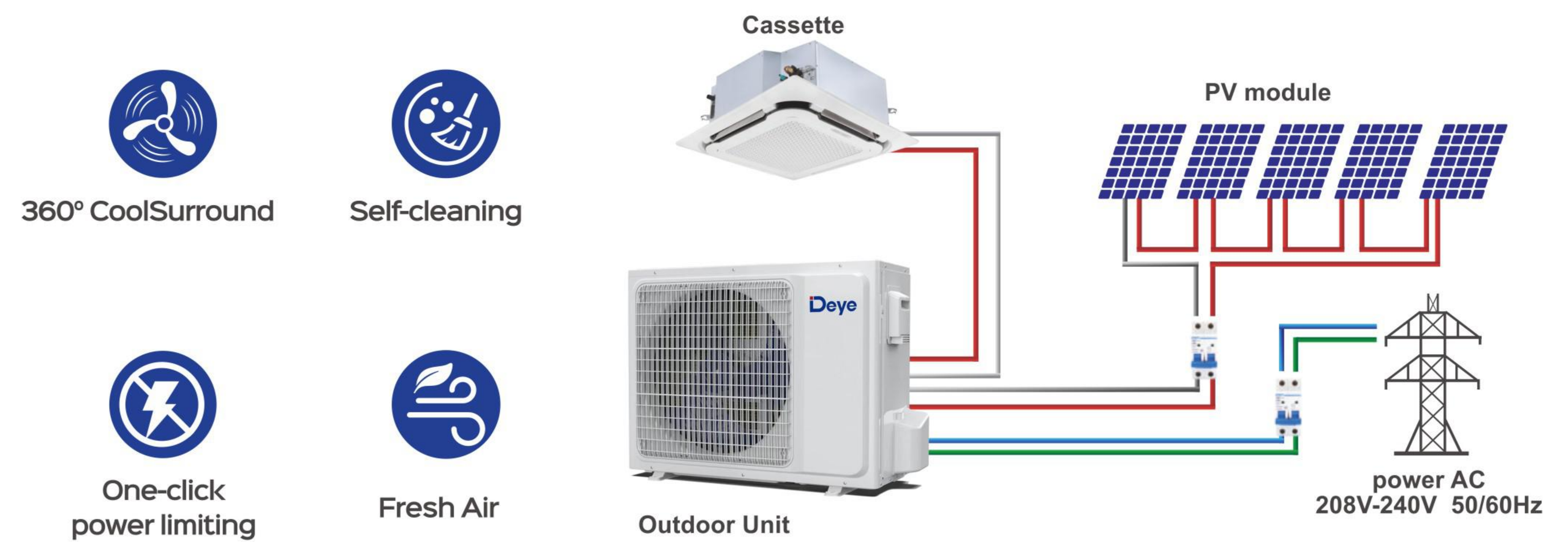




Items	Unit	24000BTU
Mode		DCaWA1-ACDC-24KR2
Solar Power Voltage/ISC	V/A	150-380V/≤20A
Grid Power Voltage	V/Hz	208V~240V/50~60Hz
Cooling Capacity	BTU	24000(6100~26600)
Cooling power input	W	2000(300~2500)
Heating Capacity	BTU	25200(6100-26600)
Heating power input	W	1900(320~2200)
EER	BTU/W	3.50/12.00
Indoor unit Dimension (WxHxD)	mm	830x830x230
Indoor unit Packing (WxHxD)	mm	925x925x230
Indoor panel Dimension(WxHxD)	mm	950x950x45
Indoor panel Packing(WxHxD)	mm	1030x1030x90
Outdoor unit Dimension (WxHxD)	mm	900x700x337
Outdoor unit Packing (WxHxD)	mm	1006x755x418



Items	Unit	24000BTU
Mode		DCaWMB1-ACDC-24K
Solar Power Voltage/ISC	V/A	150-380V/≤20A
Grid Power Voltage	V/Hz	208V~240V/50~60Hz
Cooling Capacity	BTU	24000(6100-25600)
Cooling power input	W	2000(300-2600)
Heating Capacity	BTU	25200(6100-26600)
Heating power input	W	2050(300-2200)
EER	BTU/W	3.25/11.15
Indoor unit Dimension (WxHxD)	mm	830x830x230
Indoor unit Packing (WxHxD)	mm	925x925x230
Indoor panel Dimension(WxHxD)	mm	950x950x45
Indoor panel Packing(WxHxD)	mm	1030x1030x90
Outdoor unit Dimension (WxHxD)	mm	900x700x373
Outdoor unit Packing (WxHxD)	mm	1006x755x418



Solar AC Duct

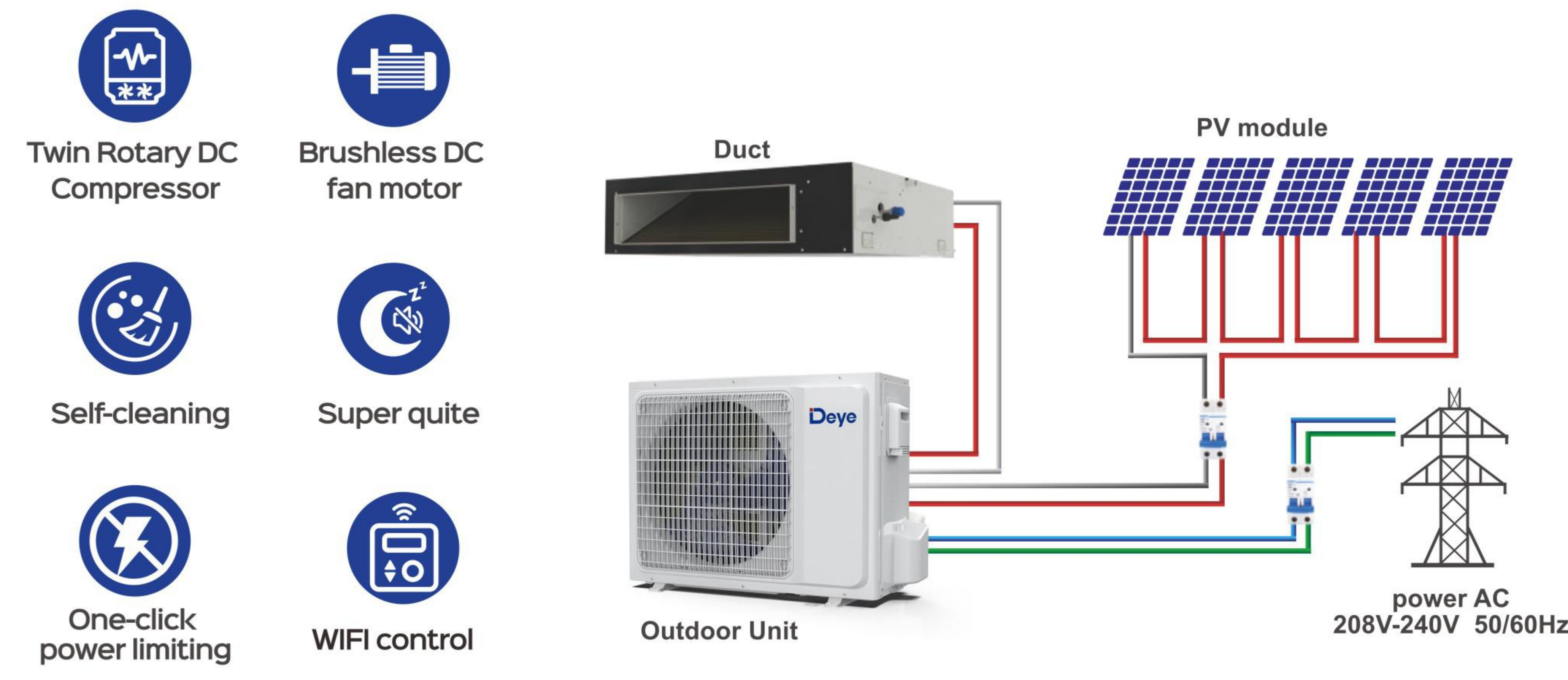
- Wired control
- Adjustable static pressure



- Full DC Inverter tech
- MPPT
- Hybrid Solar



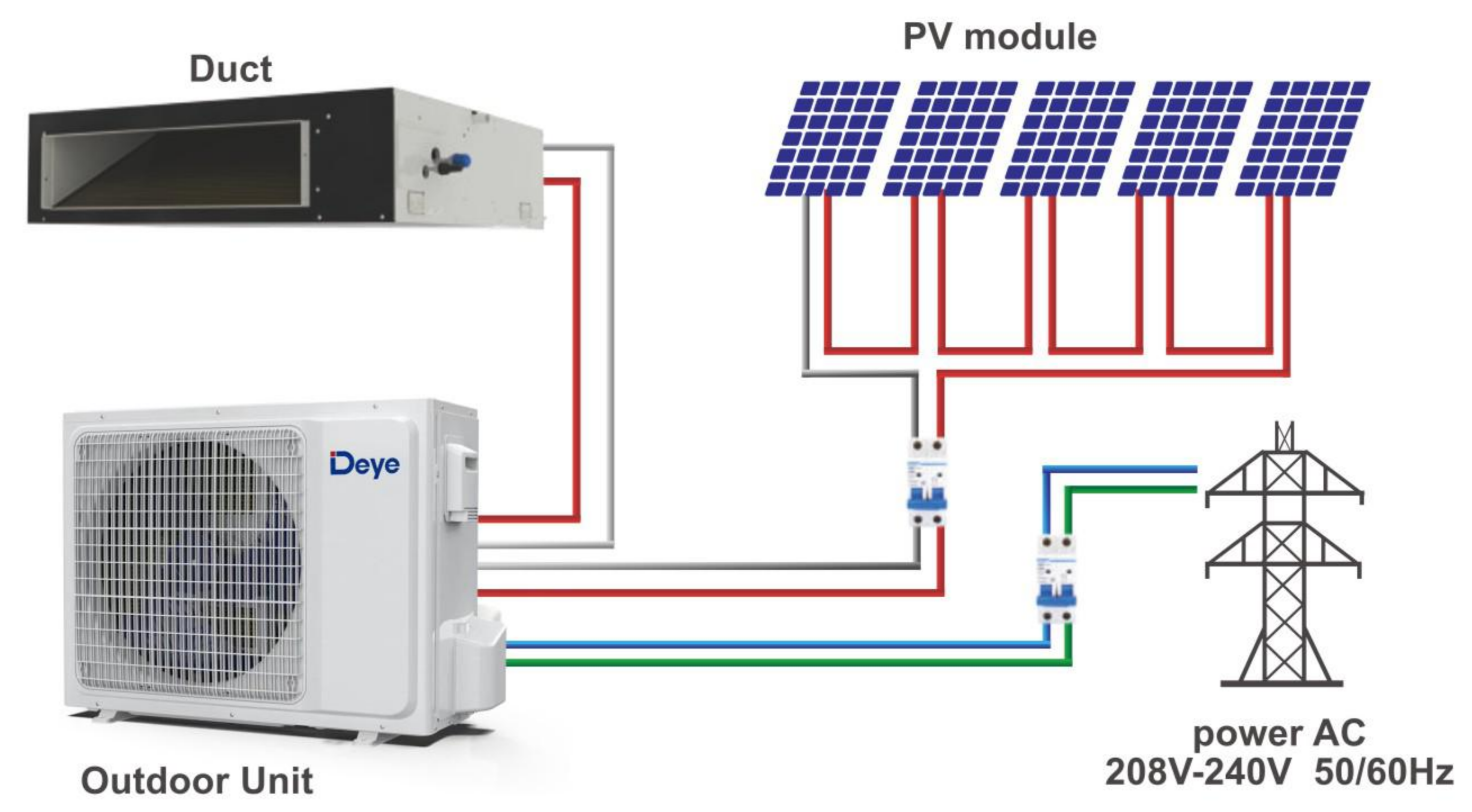
Items	Unit	24000BTU
Mode		DLMDWA1-ACDC-24KR2
Solar Power Voltage/ISC	V/A	150-380V/≤20A
Grid Power Voltage	V/Hz	208V~240V/50~60Hz
Cooling Capacity	BTU	23000(6100-25600)
Cooling power input	W	1820(300-2500)
Heating Capacity	BTU	25000(6100-26000)
Heating power input	W	1900(300-2100)
EER	BTU/W	3.70/12.60
Indoor unit Dimension (WxHxD)	mm	892x670x265
Indoor unit Packing (WxHxD)	mm	1065x815x330
Outdoor unit Dimension (WxHxD)	mm	900x700x337
Outdoor unit Packing (WxHxD)	mm	1006x755x418





Items	Unit	24000BTU
Mode		DLMDWA1-ACDC-24K
Solar Power Voltage/ISC	V/A	150-380V/≤20A
Grid Power Voltage	V/Hz	208V~240V/50~60Hz
Cooling Capacity	BTU	23000(6100-25600)
Cooling power input	W	1850(300-2500)
Heating Capacity	BTU	25000(6100-26000)
Heating power input	W	1950(300-2100)
EER	BTU/W	3.65/12.45
Indoor unit Dimension (WxHxD)	mm	892x670x265
Indoor unit Packing (WxHxD)	mm	1065x815x330
Outdoor unit Dimension (WxHxD)	mm	900x700x337
Outdoor unit Packing (WxHxD)	mm	1006x755x418

- Twin Rotary DC Compressor
- Brushless DC fan motor
- Self-cleaning
- Super quiet
- One-click power limiting
- WIFI control



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Full DC Inverter tech

MPPT

Hybrid Solar

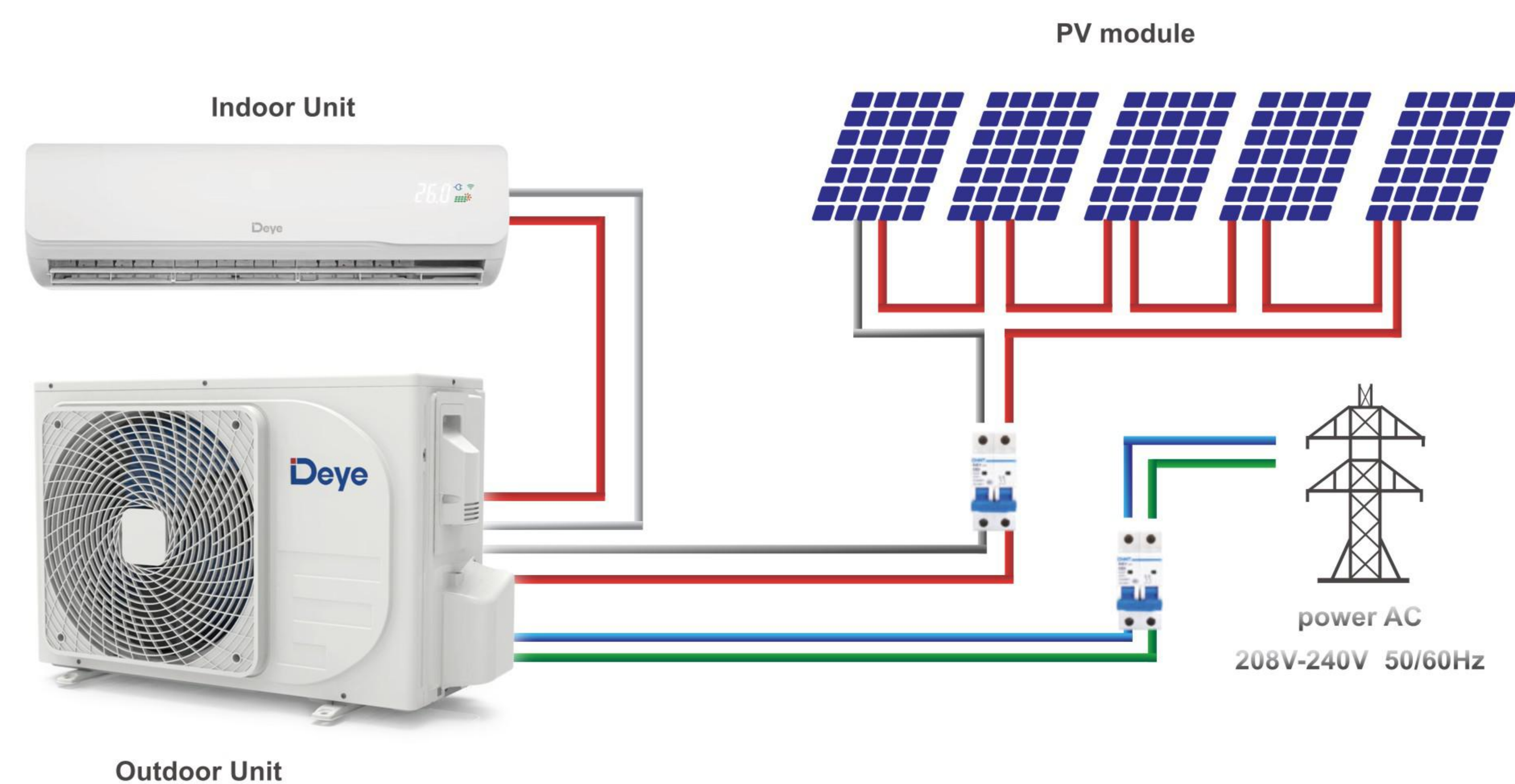
Solar Air Conditioner

Cooling Only





Items	Unit	12000BTU
Mode	/	DCGWA21-ACDCBLW-12KR2
Solar Power Voltage/ISC	V/A	80~380V/≤14A
Grid Power Voltage	V/Hz	208V~240V/50~60Hz
Cooling Capacity	BTU	12000(2700-13500)
Cooling power input	W	980(150-1250)
EER	BTU/W	3.65/12.45
Indoor unit Dimension (WxHxD)	mm	840x205x295
Indoor unit Packing (WxHxD)	mm	920x290x360
Outdoor unit Dimension (WxHxD)	mm	802x564x323
Outdoor unit Packing (WxHxD)	mm	910x622x405



Tropical Applicable



Items	Unit	9000BTU	12000BTU	18000BTU
Mode	/	DGWA1-DC48V-09K	DGWA1-DC48V-12K	DGWA1-DC48V-18K
Voltage	V	DC48V(46~58V)	DC48V(46~58V)	DC48V(46~58V)
Cooling Capacity	BTU	9000(3400-10000)	12000(3400-12600)	17090(4400-19500)
Cooling power input	W	640(180-750)	930(200-1080)	1360(250-1660)
Heating Capacity	W	2900(800-3300)	3900(1000-4000)	5150(1500~5250)
Heating power input	W	680(160-864)	1030(180-1020)	1260(250~1410)
EER	BTU/W	14.06	12.90	12.57
Indoor unit Dimension (WxHxD)	mm	840x205x295	840x205x295	1080x330x237
Indoor unit Packing (WxHxD)	mm	920x290x360	920x290x360	1140x300x382
Outdoor unit Dimension (WxHxD)	mm	802x564x323	802x564x323	802x564x323
Outdoor unit Packing (WxHxD)	mm	910x622x405	910x622x405	910x622x405

APPLICATION

Ideal for places with no power or power stability issues



Remote telecom stations



Island locations

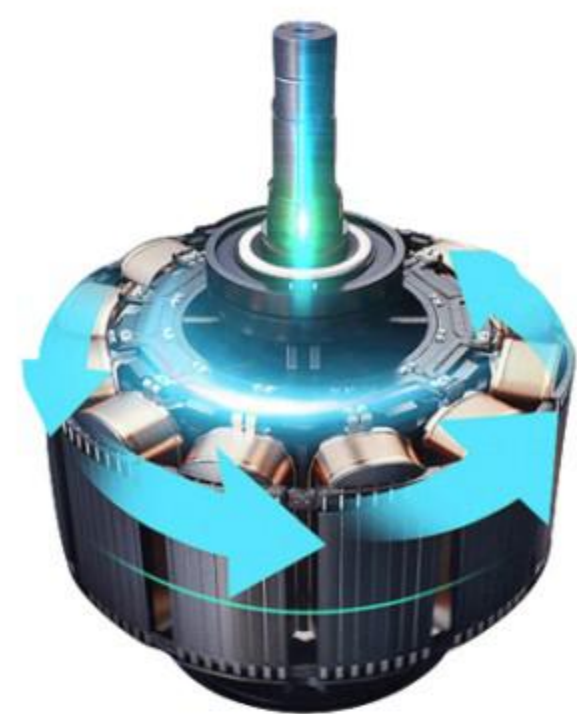


Container houses



Boating

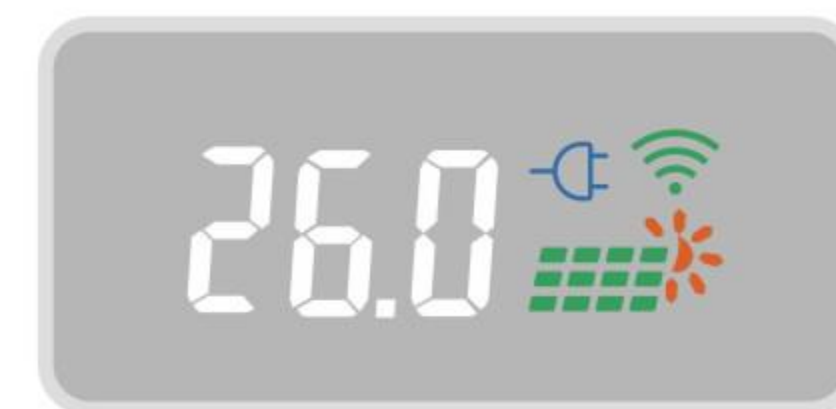
Key components



Brushless DC fan motor



Twin Rotary DC Compressor



Intelligent Grid Indicator



Ultra-quiet operation
as low as 16 DB



4D Air supply



Golden fin



Wide operation
TEMP range -10°C~60°C

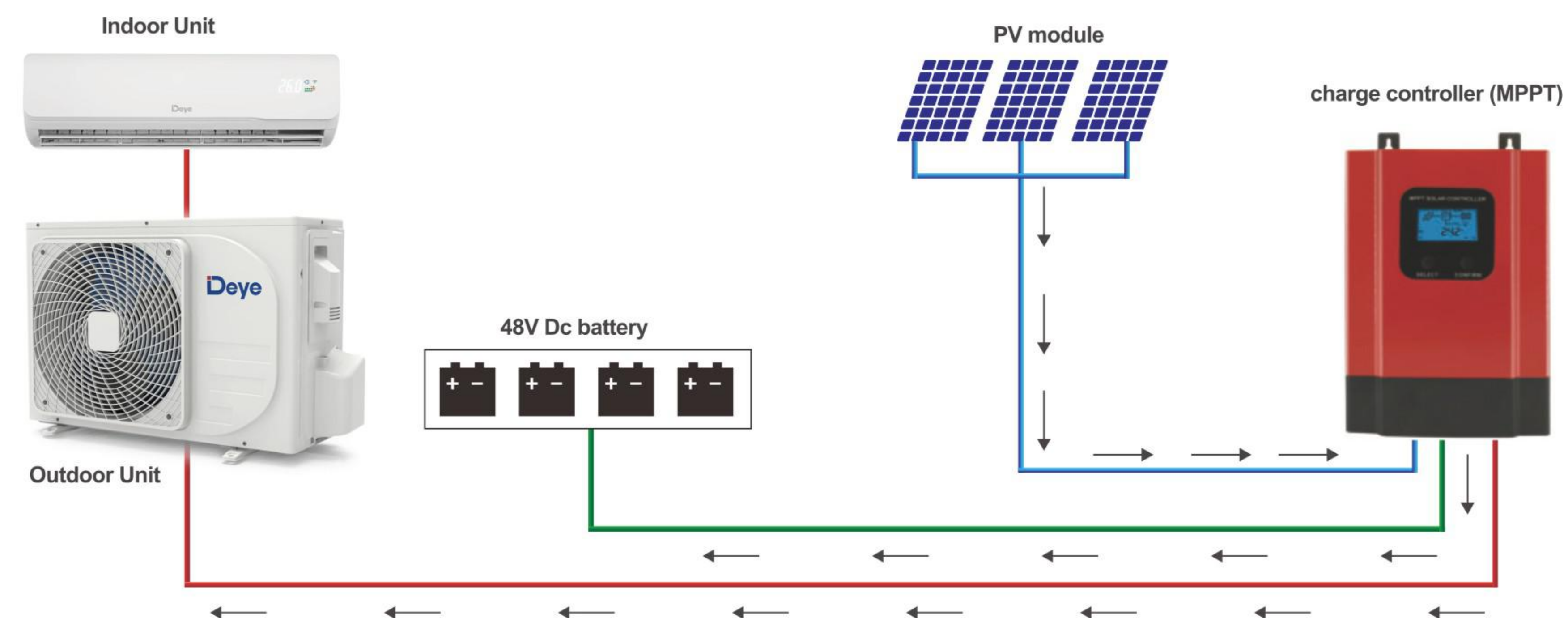


30S fast cooling
60S rapid heating



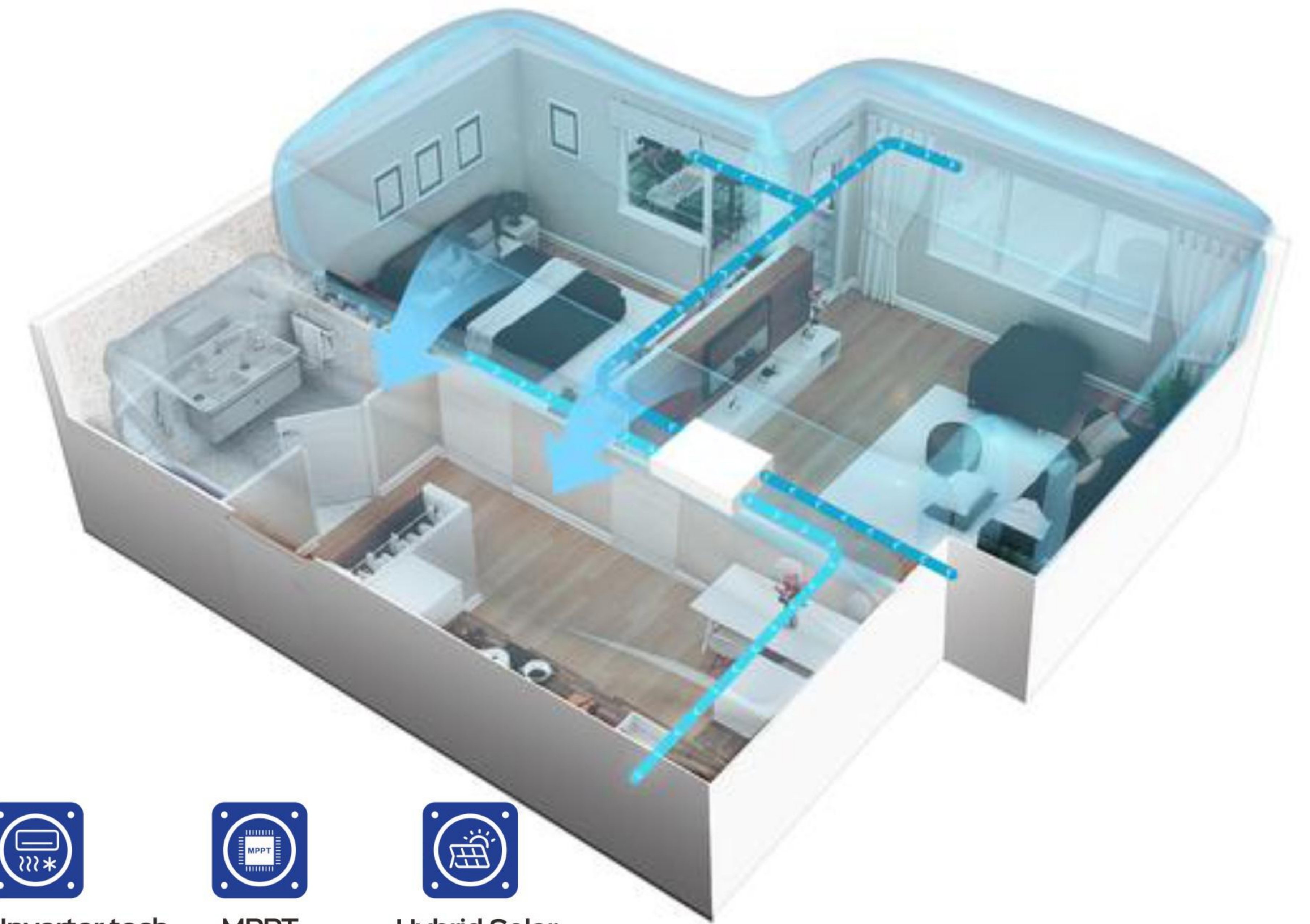
Rs485 Communication

OFF-grid AC-DC 48V operation diagram



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Full DC Inverter tech



MPPT



Hybrid Solar

Multi Split Air Conditioning System

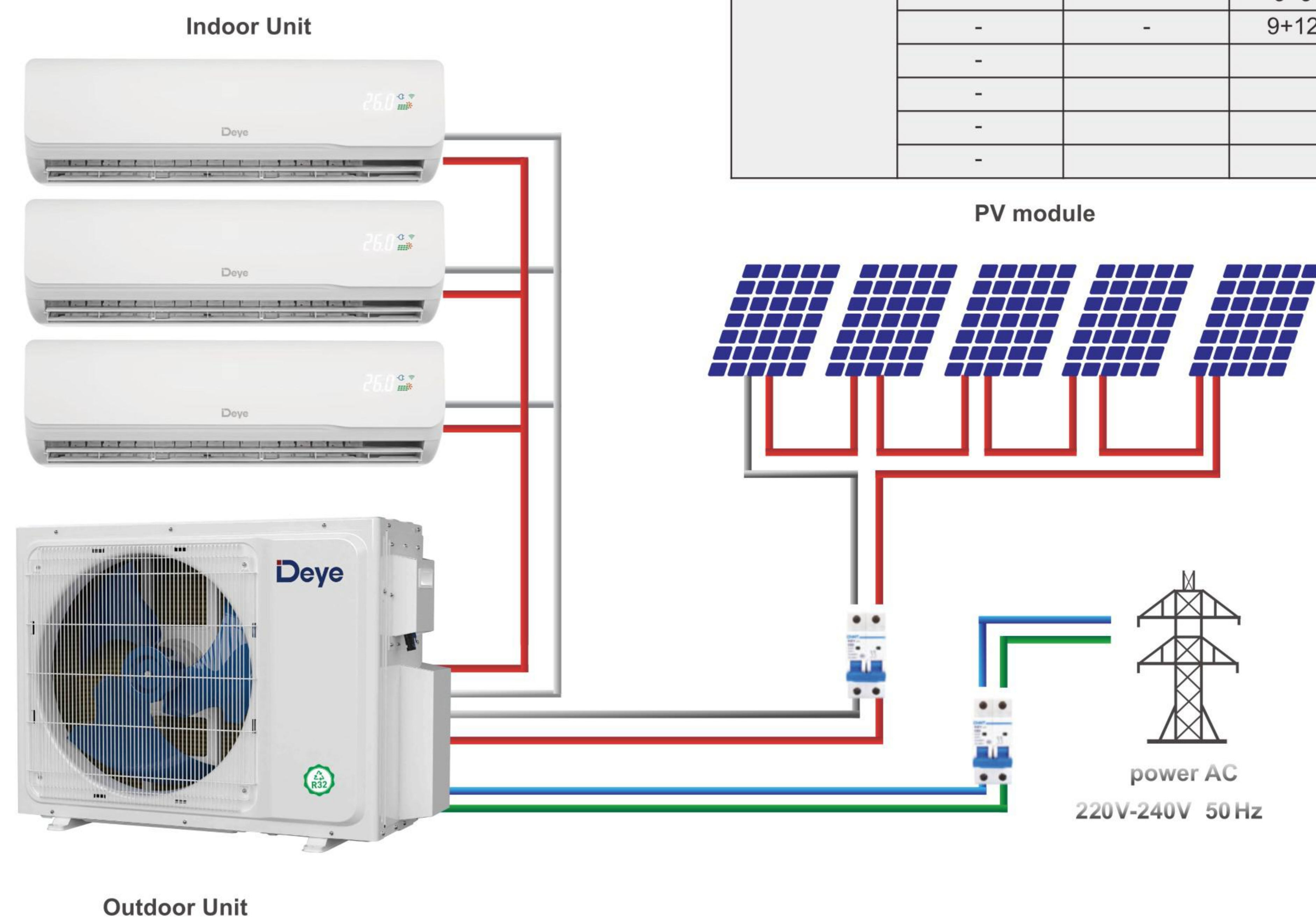


ACDC R32



Items	Unit	9K	12K	18K	27K Outdoor Unit
Mode	/	DMGA1-ACDC-09KR2 DMGA1-ACDC-12KR2 DMGA2-ACDC-18KR2 DW3B1-ACDC-27KR2			
Solar Power Voltage	V	80~380	80~380	80~380	80~380
Grid Power Voltage	V/Hz	220V~240V/50Hz	220V~240V/50Hz	220V~240V/50Hz	220V~240V/50Hz
Cooling Capacity (T1)	BTU	9000	12000	17100	27000
Cooling power input (T1)	W	2640	3520	5010	7900
Heating Capacity	BTU	9550	12300	17550	28000
Heating power input	W	2800	3600	5140	8200
Indoor unit Packing(WxHxD)	mm	840x205x295	840x205x295	840x205x295	888x318x700
Outdoor unit Packing (WxHxD)	mm	920x290x360	920x290x360	920x290x360	1006x418x755

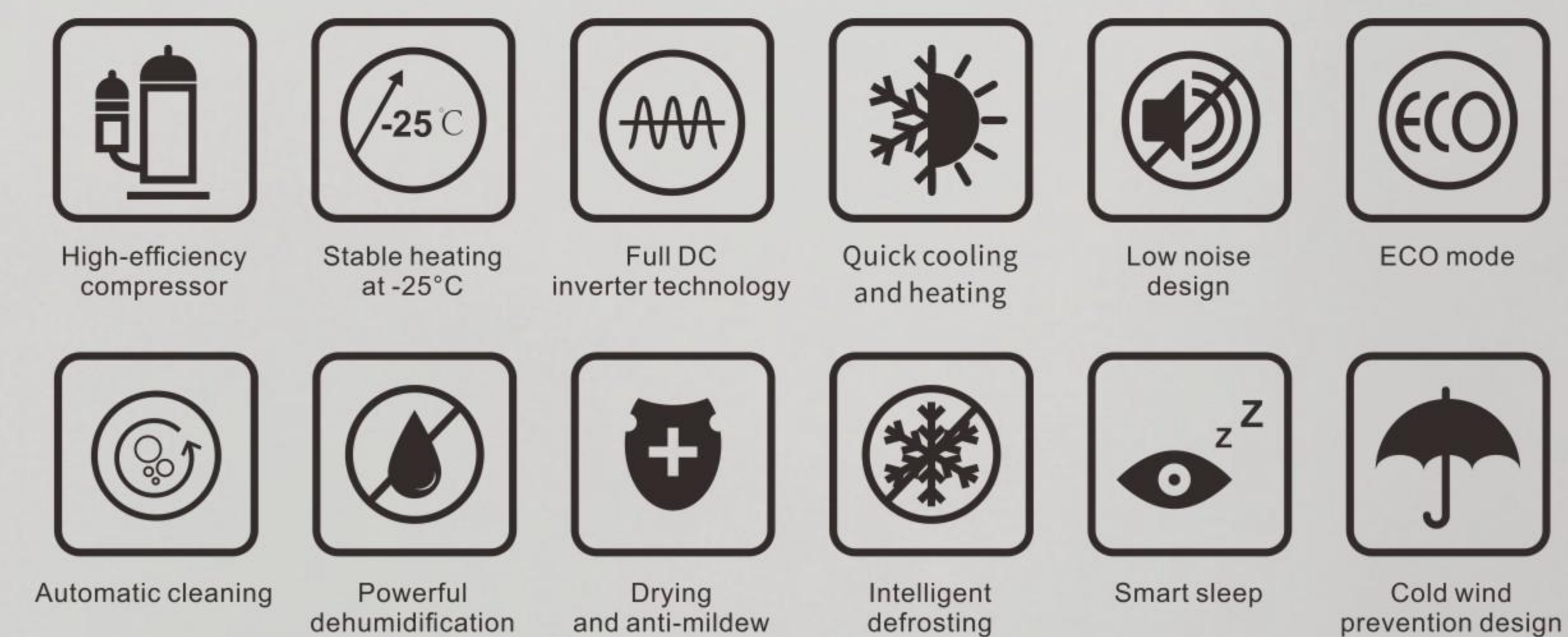
27K	Suggested combination		
1 drive 3	1 indoor	2 indoor	3 indoor
	18k	9+9	
		9+12	
		9+18	
		12+12	
	-	12+18	9+9+9
	-	-	9+9+12
	-	-	9+12+12
	-		
	-		



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Solar Air Source Floor Console Heat Pump



Powerful Heating Capacity

The lower the temperature, the greater the user's demand for heat. Ordinary heating units have reduced heat output and significant attenuation. The fully DC inverter air-source heat pump heater uses a vapor-injected variable frequency compressor, ensuring no heat attenuation at -25°C, perfectly meeting user needs.

Ultra-Low Operating Temperature

The fully DC inverter air-source heat pump heater uses ultra-low temperature units, capable of stable operation in environments as low as -25°C. The operating limit for air-source heat pump heating has been set even lower, making it widely suitable for heating in regions such as North China, Central China, Northwest China, and East China.

Long Continuous Heating Time, Uninterrupted Warmth

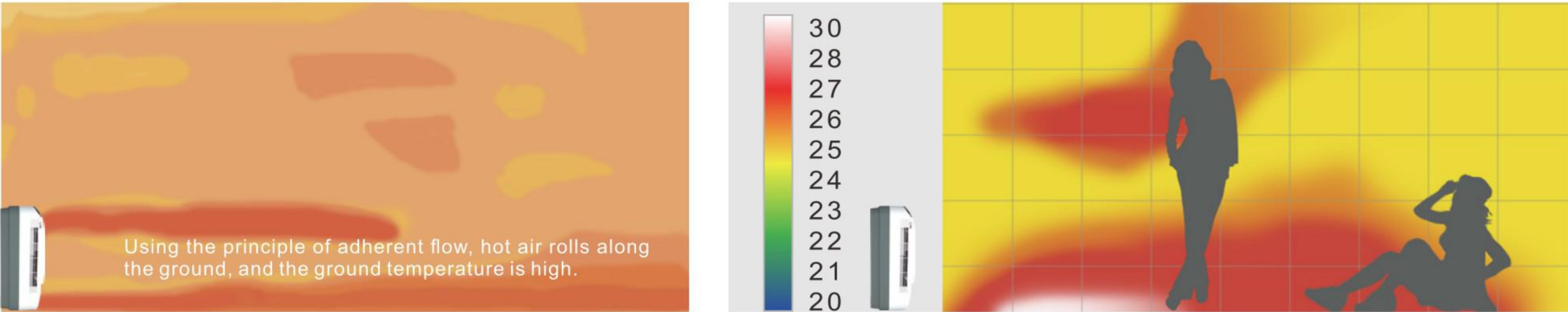
With a long continuous heating time, it can provide uninterrupted warmth for 6 hours without defrosting at an outdoor temperature of -15°C and 75% relative humidity. Intelligent defrosting ensures no noticeable temperature fluctuations, offering a comfortable heating experience.

Instant Heating, Rapid Temperature Rise

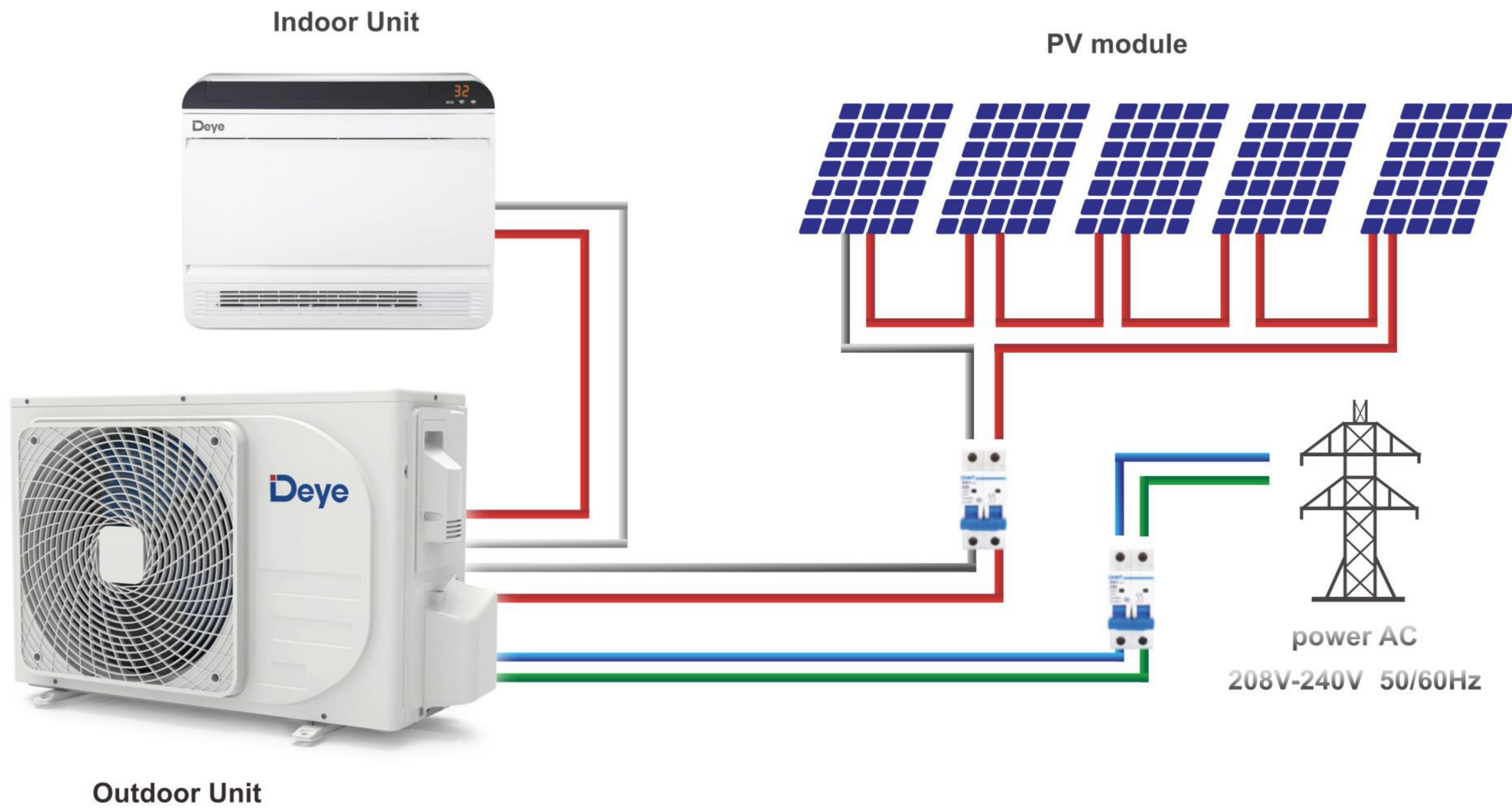
The unit starts with high-frequency heating for rapid temperature rise. It can be turned on and off as needed. When the outdoor temperature is 2°C and the indoor temperature is 10°C, the temperature at 10cm above the floor in the center of the room can reach over 20°C within six minutes of operation. When the outdoor temperature is -15°C and the indoor temperature is 6°C, the temperature at 10cm above the floor in the center of the room can reach over 20°C within fifteen minutes of operation.

Safe and Eco-Friendly

R410a New Eco-Friendly Refrigerant: Uses efficient R410a eco-friendly refrigerant, which does not harm the ozone layer, promoting a low-carbon lifestyle.
Safe and Reliable: The humanized design of the air outlet baffle effectively reduces significant safety hazards. It effectively avoids risks such as electric leakage, fire hazards, exhaust emissions, accidental burns, and gas poisoning.



Using the principle of adherent flow, hot air rolls along the ground, and the ground temperature is high.



Technical Specifications



ACDC R410A

Model	3000W	4000W
Heating capacity(-12°C)	3000W	4000W
High temperature heating capacity(7°C)	3000W(400-6600W)	4000W (400-7500W)
Low temperature heating capacity(-20°C)	3000W	4000W
Heating COP(-12°C)	25	23
High temperature heating COP(7°C)	3.61	3.6
Low temperature heating COP(-20°C)	2	2
Cooling capacity	3000W	4000W
Power supply	220V-50Hz	220V-50Hz
Refrigerant	R410A/1300g	R410A/1350g
Connecting pipe specifications	Φ 6.35/9.52	Φ 6.35/9.52
Connecting pipe length	3m	3m
Outdoor unit exterior dimensions	790x560x290	790x560x290
Total weight (indoor / outdoor)	15/34Kg	15/37Kg
Reperation operating ambient temperature	16-50°C	16-50°C
Heating operating ambient temperature	-25°C ~ 27°C	-25°C ~ 27°C
Adjustable temperature range	16°C ~ 32°C	16°C ~ 32°C
Circulating air volume	600m³/h	650m³/h
Noise (indoor unit/outdoor unit)	42/55dB(A)	42/55dB(A)
Indoor unit exterior dimensions	720x610x230	720x610x230

