



UNIEPU NEW ENERGY
SOLAR PHOTOVOLTAIC SOLUTION

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All specifications are provided as theoretical values and are subject to minor deviations in actual performance. Specifications may be changed without prior notice. For any clarifications, please contact us directly.



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CATALOGUE

SOLAR THERMAL

About Us	1
★ Hybrid ACDC PV Water Heater	2
★ PVT Hybrid Solar Panel	4

HEAT PUMP WATER HEATER

★ Heat Pump Water Heater	6
★ Split Heat Pump Water Heater	8
★ PV-Driven Heat Pump	10

SOLAR AIR CONDITIONERS

★ ACDC Hybrid Solar Power Air Conditioner	12
★ Only Cooling Solar Air Conditioner	13
★ ACDC Hybrid Solar Power Air Conditioner(aluminum)	14
3 In 1 Solar Power Air Conditioner	15
Accessories for Solar Power Air Conditioner	16



ABOUT US



Solar Energy. Smarter Solutions. Greener Future.

UNIEPU, established in 2009, is a professional solar energy company dedicated to providing reliable and efficient renewable energy solutions for customers worldwide.

With years of experience in the solar energy industry, we have developed a comprehensive product portfolio covering solar water heating, photovoltaic systems, heat pump technology, and solar-powered air conditioning.

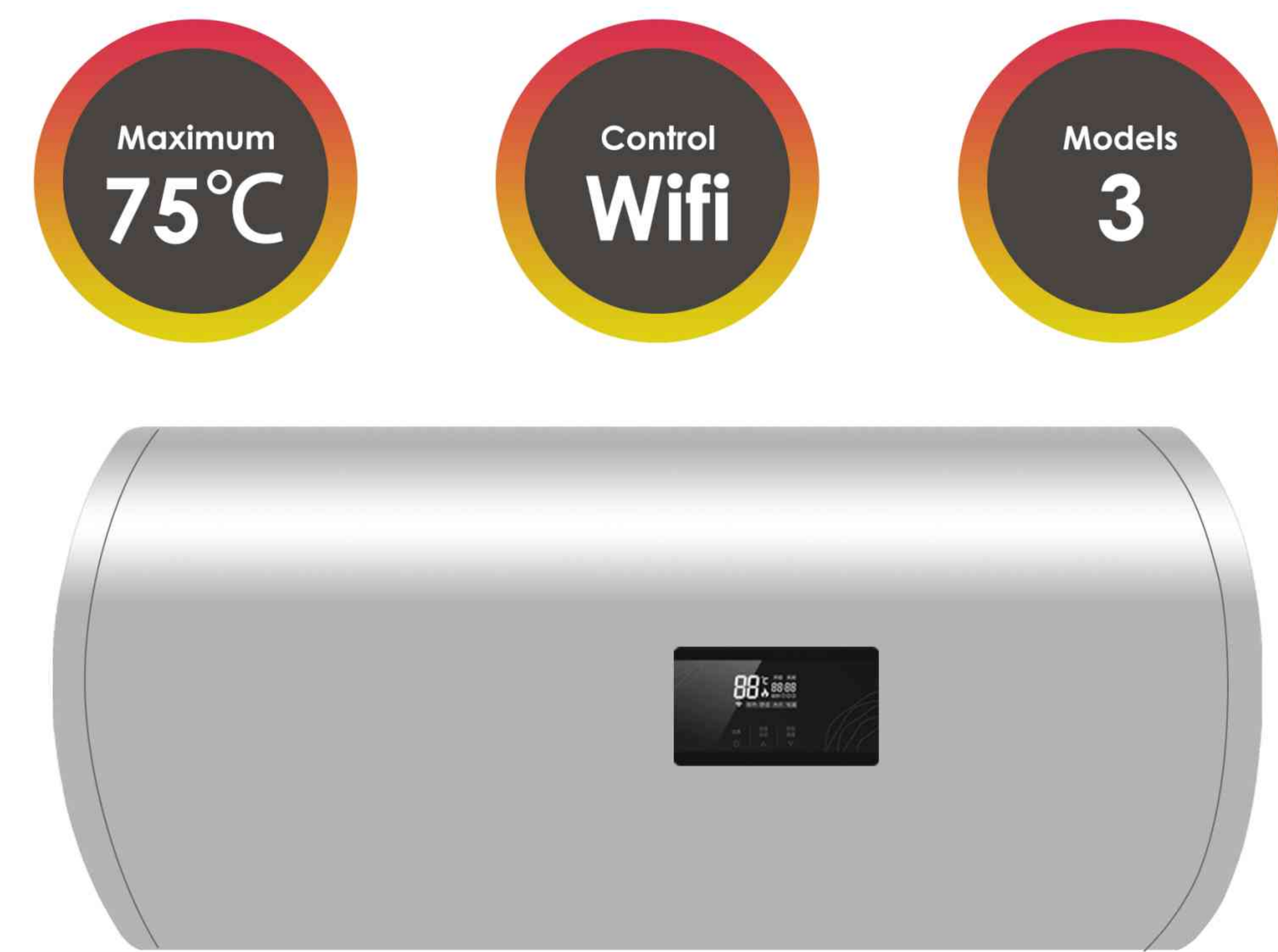
Our PV product range includes PV Solar Water Heaters, PVT Hybrid Panels, PV Heat Pumps, and Solar Air Conditioners, designed to meet different requirements for hot water, heating, cooling, and energy-saving applications.

By working with experienced and qualified suppliers, we carefully select and integrate products according to market requirements, application needs, and customer specifications. We focus on product quality, system compatibility, and reliable after-sales support to provide customers with practical solar energy solutions.

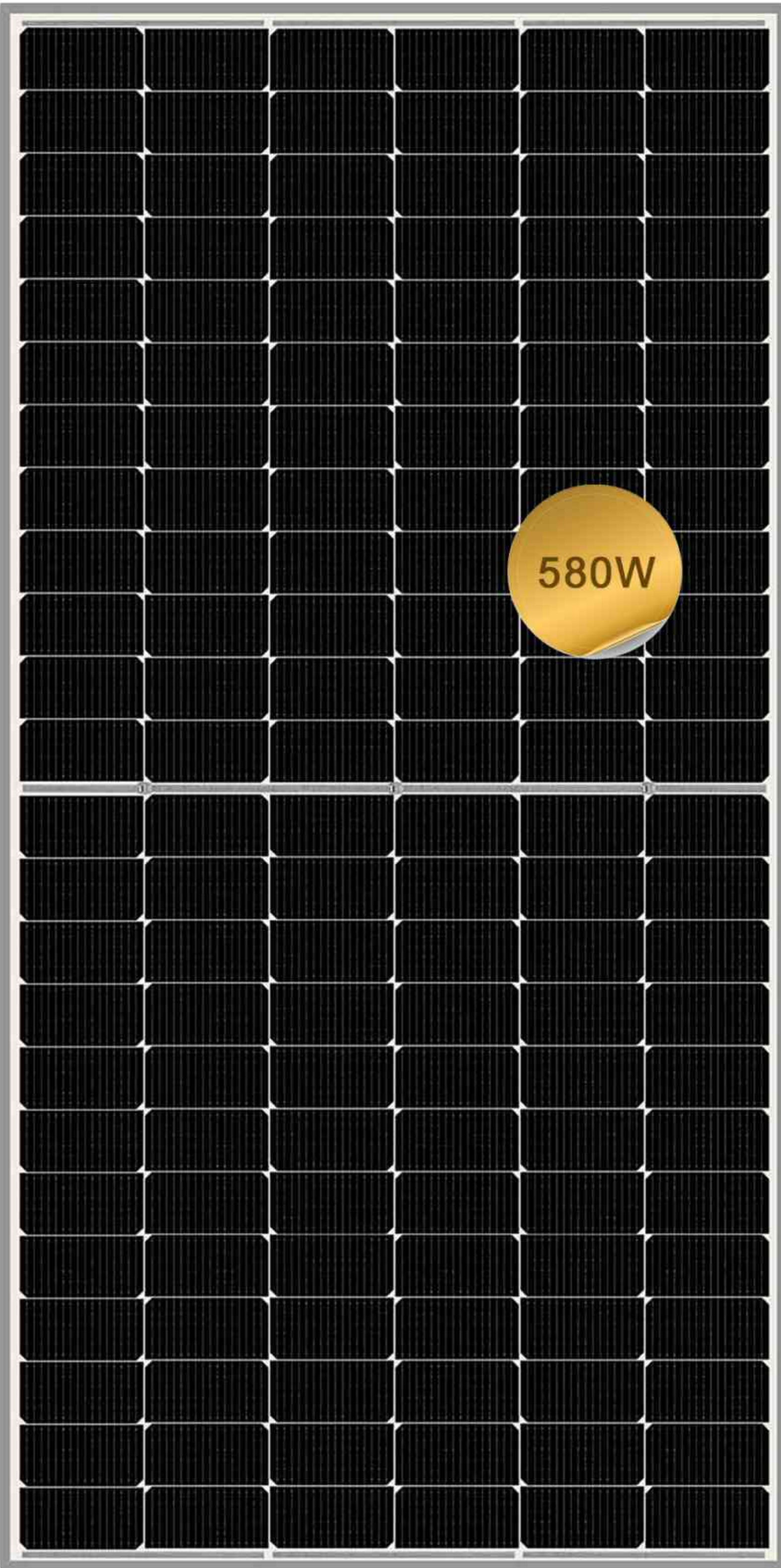
Our professional team provides support throughout the purchasing process, from product selection and system configuration to technical communication and after-sales service.

We are committed to making renewable energy more efficient, practical, and accessible, helping customers around the world reduce conventional energy consumption and move toward a more sustainable future.

Hybrid ACDC PV Water Heater



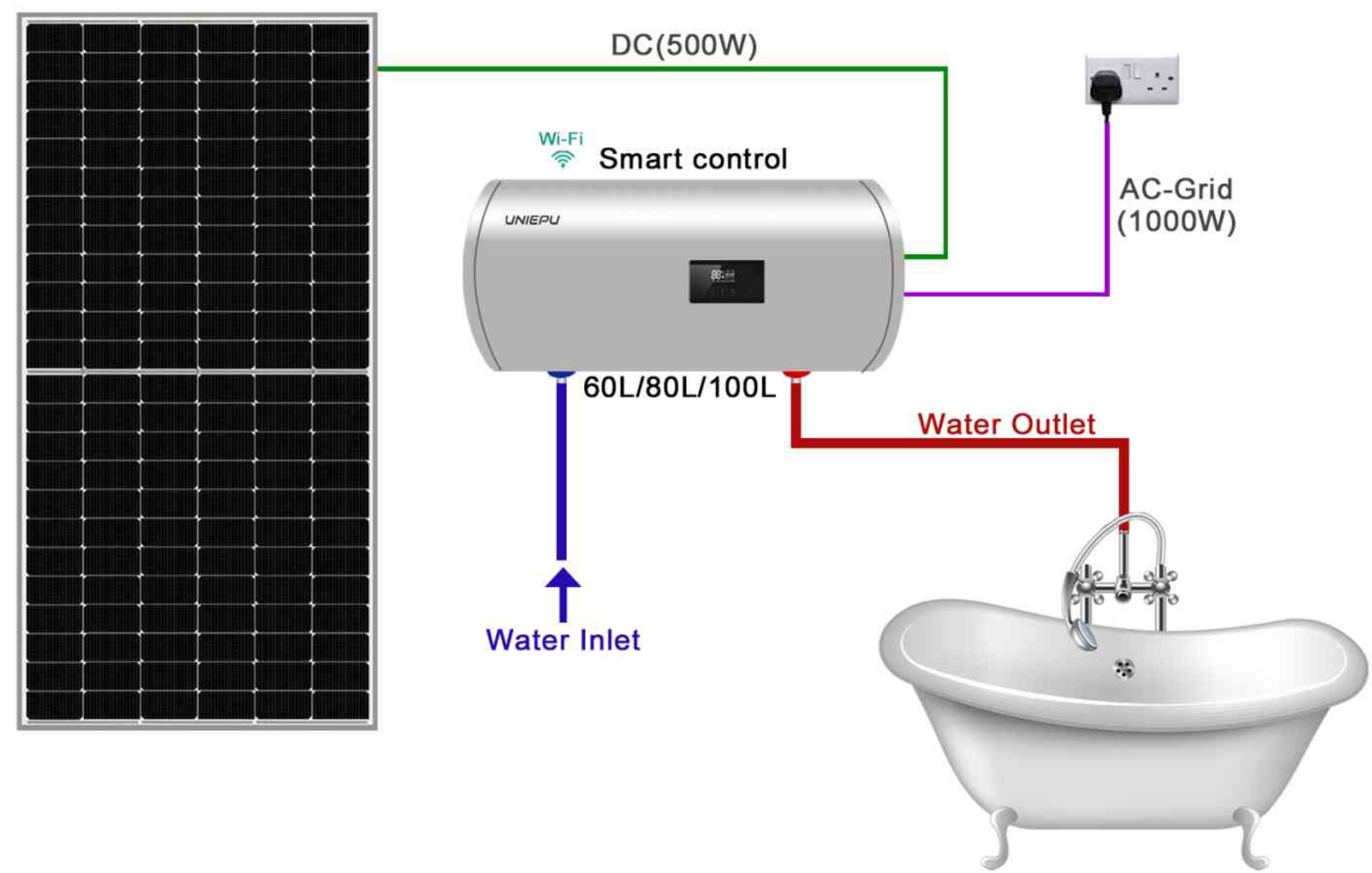
- ✓ Uses 100% of your PV energy
- ✓ No thermal heat losses on transfer
- ✓ AC boost heating included
- ✓ Wi-Fi control
- ✓ Low maintenance, no moving parts
- ✓ No pumps, no piping
- ✓ No refrigerants
- ✓ No inverter
- ✓ Easy installation



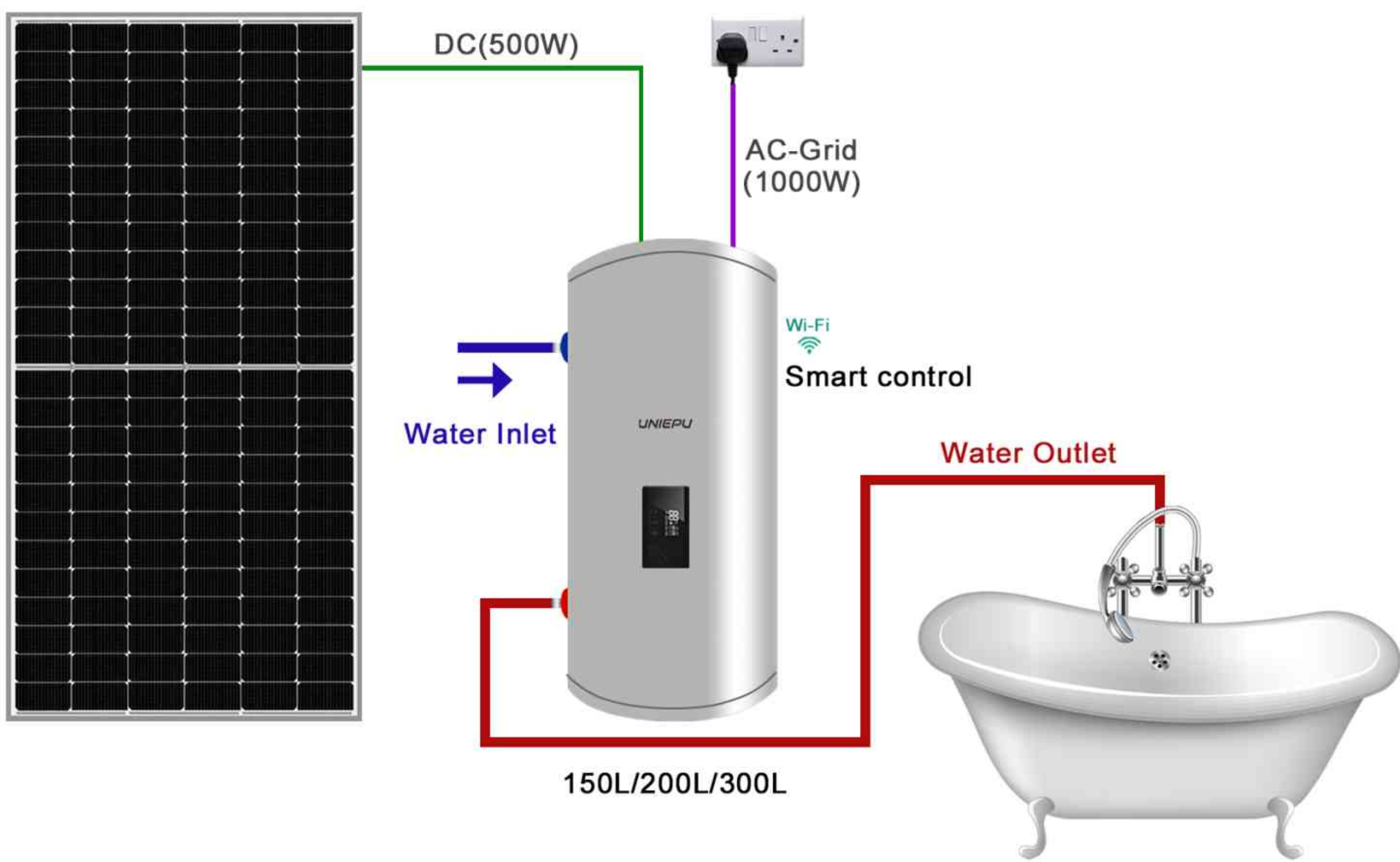
- Bifacial technology enables additional energy harvesting from rear side (up to 30%)
- 30-year lifespan delivers 10-30% more power compared with conventional P-type modules
- The natural lack of LID in the N-type solar cell can increase power generation
- Excellent low irradiance performance
- Better light trapping and current collection to improve module power output and reliability
- Industry-leading, lowest thermal coefficient
- Optimized electrical design and lower operating current for reduced hot spot loss and better temperature
- Certified to withstand 2400 Pa of wind load and 5400 Pa of snow load
- 100% triple EL test, which greatly reduces the hidden cracks rate

Working principle

Wall-Mounted Type



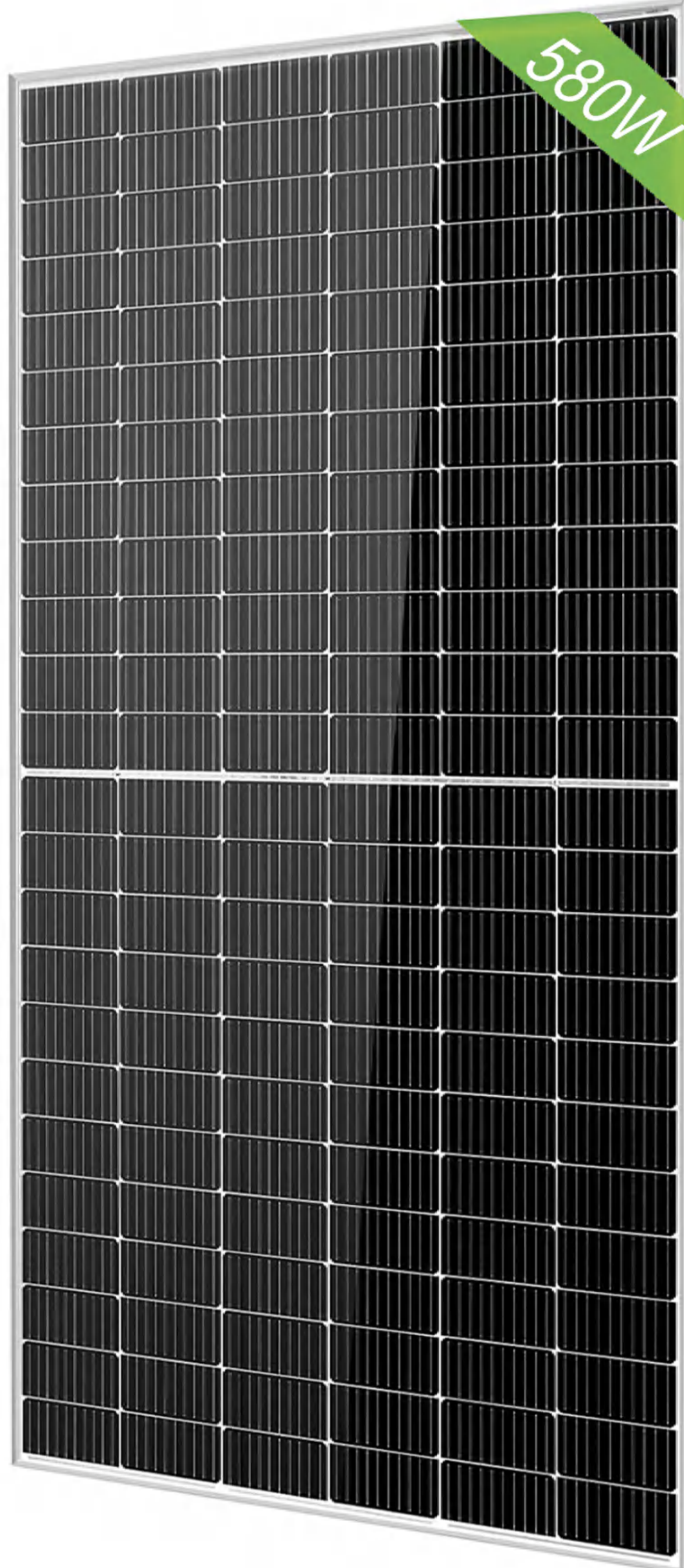
Floor-standing Type



Parameters

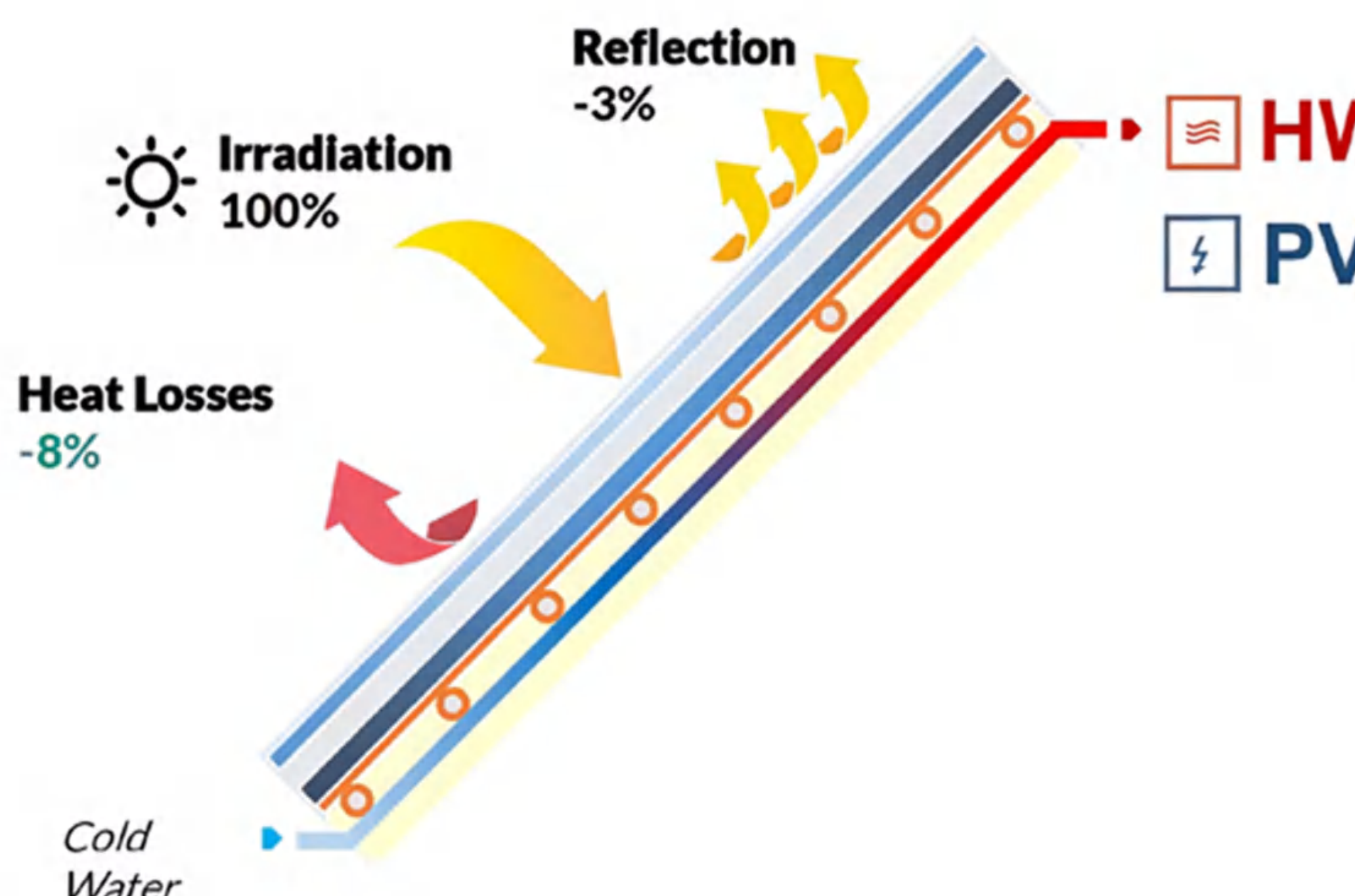
Model		UNP-PVSWH-60L	UNP-PVSWH-80L	UNP-PVSWH-100L	UNP-PVSWH-150L	UNP-PVSWH-200L	UNP-PVSWH-300L
Water Tank Capacity		60 Liter	80 Liter	100 Liter	150 Liter	200 Liter	300 Liter
Power Supply	AC Power	AC 85~250V 50~60HZ 1000W					
	DC Power	DC 30~200V 500W					
Inner/Outer Diameter		Φ380/Φ470	Φ380/Φ470	Φ380/Φ470	Φ370/Φ470	Φ400/Φ500	Φ500/Φ600
Inner Tank Material		Stainless steel 304-1.2mm					
Outer Tank Material		Galvanized Steel 0.45mm					
Accessories	PV Panel	580W*1	580W*1	580W*1	580W*2	580W*4	580W*6
	PV Bracket	30*30*2.5mm, aluminum alloy					
	PV wire	The machine comes with a 1.5m photovoltaic line and 10m of red and black photovoltaic lines					
	Plug	Plug (Customizable) with AC wire 1.2m and leakage protection					
Insulation Thickness		45mm	45mm	45mm	50mm	50mm	50mm
Net Dimensions(mm)		640*470*470	850*470*470	990*470*470	1570*470*470	1790*500*500	1720*600*600
Packing Dimensions(mm)		660*490*490	870*490*490	1010*490*490	1590*490*490	1810*520*520	1740*620*620

PVT Hybrid Solar Panel

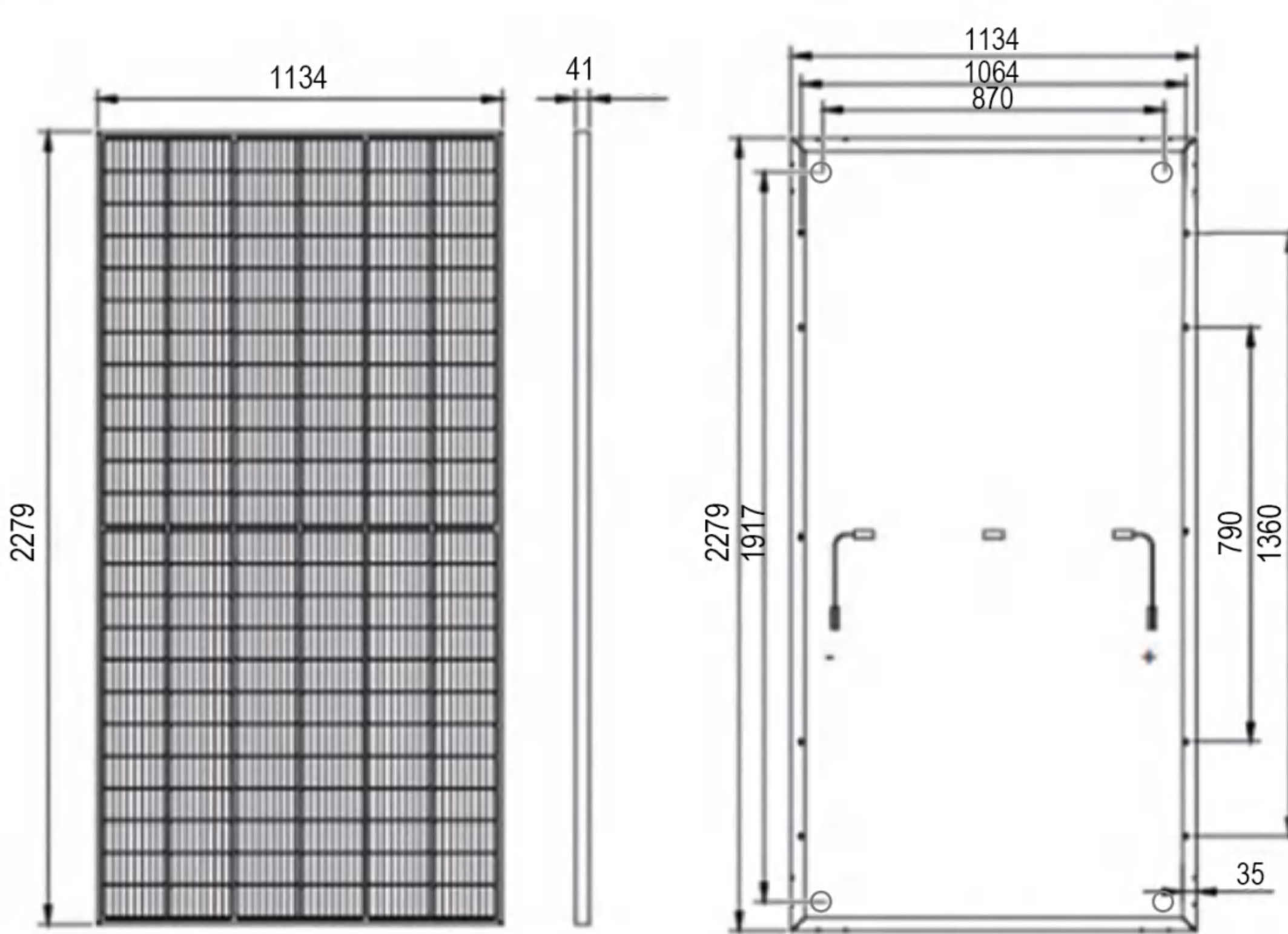


Maximum Electrical Output: 580W
Photothermal Power Output: 1430W
Maximum Module Efficiency: 22.5%

The PVT hybrid solar panel is a technology that integrates photovoltaic (PV) and thermal (T) components into a single system. This allows the panel to generate both electricity and heat from the same surface area, increasing overall efficiency compared to using separate systems.



Engineering drawing



Recommended Tank Size

Tank (Liter)	Number of Persons
200	2-3
250	3-4
300	4-6

PVT Module Technical Parameters

Model	Rated Power (W)	Thermal Power (W)	Optical Efficiency η_0 (TBD)	Heat Loss Coefficient a_1 (TBD) (W/m ² ·K)	Max Working Pressure (MPa)	Flow Rate (L/min)	Heating Time $\Delta T=10^{\circ}\text{C}$ (250L Tank, h)
UNIEPU-PVT-450	450	1210	0.582	10.8	0.8	0.4	2.41
UNIEPU-PVT-580	580	1435	0.582	10.8	0.8	1.1	2.03
UNIEPU-PVT-700	700	1611	0.582	10.8	0.8	1.3	1.81

- 1. Heating time is calculated based on 250L water volume and 10°C temperature rise.
- 2. Flow rate unit is standardized as L/min.
- 3. Maximum working pressure is 0.8 MPa.
- 4. Optical efficiency (η_0) and heat loss coefficient (a_1) for certain models are to be confirmed (TBD).
- 5. Actual performance may vary depending on installation, solar radiation, and ambient conditions.

Specifications

* STC: irradiance 1000 W/m2, AM 1.5, G and cell temperature of 25°C	
Model Type	UNIEPU-PVT-580W
Peak Power(Pmax)	580.00
Rated voltage (Vmpp)	42.79
Rated current (Impp)	13.56
Open Circuit Voltage(Voc)	51.15
Short Circuit Current(Isc)	14.47
Cells Efficiency(%)	19.90
Module Efficiency(%)	22.5%
* NOCT: irradiance 800 W/m2, AM 1.5G, ambient temperature 20°C, wind speed 1 m/s	
Peak Power(Pmax)	397.25
Rated voltage (Vmpp)	38.50
Rated current (Impp)	8.50
Open Circuit Voltage(Voc)	45.70
Short Circuit Current(Isc)	9.01
Inlet and Outlet	DN 15
Water pressure	0.8mpa
Water flow	0.4L/S

PVT operating conditions

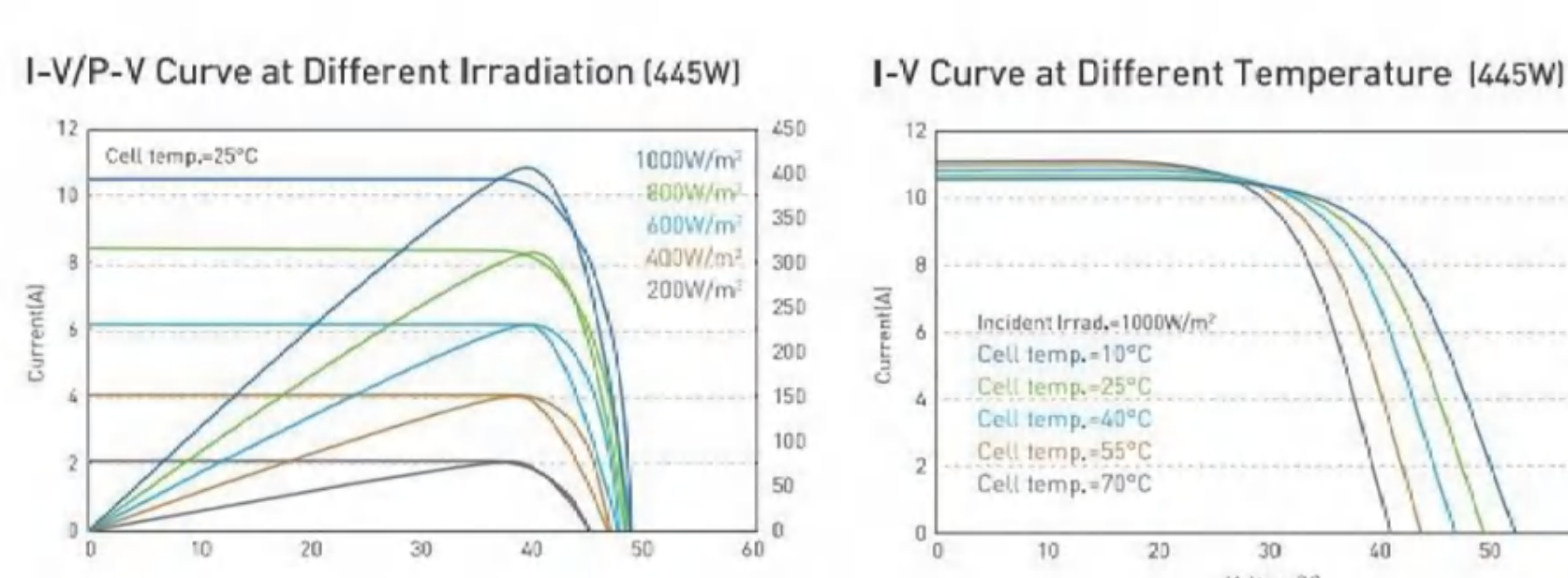
Maximum System Voltage(V)	1500
Maximum Series Fuse Rating(A)	30
Power Tolerance	0~+4.99W
Operating and Storage Temperature(°C)	-40 ~+85

Mechanical characteristics

No. of Cells	144 Cells (6x24)
Dimensions	2279x1134x41mm
Weight	45kg
Front Glass	High transparency solar glass 3.2mm
Frame	Silver, anodized aluminium alloy
Junction box	IP68 Rated
Output cables	4mm ² cable 300mm+mc4
MaxWind Load/Snow Load	2400Pa/5400Pa
Connector	MC Compatible

Temperature characteristics

NOCT Nominal Operating Cell Temperature(°C)	45±2
Voltage temperature coefficient (μVoc)	-0.25% / °C
Current temperature coefficient (μIsc)	+0.05% / °C
Power temperature coefficient (μPmpp)	-0.29% / °C



Model Type		UNP-PVT-450W	UNP-PVT-700W
Characteristics	Nominal power	450W	700W
	Output power tolerance	0~+3W	0~+4.99W
	Voltage at Maximum Power(Vmp/v)	41.5	40.58
	Current at Maximum Power(Impp/A)	10.85	17.25
	Open Circuit Voltage(Voc)	49.3±3%	48.28±3%
	Short Circuit Current(Isc)	11.6±3%	18.3±3%
	Module Efficiency(%)	20.7	22.5
	Voltage temperature coefficient(μVoc)	-0.270%/°C	-0.240%/°C
	Current temperature coefficient(μIsc)	+0.048%/°C	+0.042%/°C
	Power temperature coefficient(μPmpp)	-0.350%/°C	-0.290%/°C
	NMOT	45+/-2°C	45+/-2°C
	Maximum System Voltage(V)	1500	1500
Mechanical characteristics	Maximum reverse current(A)	20	30
	Cell Type	156.75×156.75Poly	182 × 182 Mono
	No. of Cells	72(6x12)	132(6x22)
	Dimensions	2094*1038*41	2384*1303*41
	Weight	38kg	51kg
	Front Glass	3.2mm high transmission, low iron, tempered glass	3.2mm high transmission, low iron, tempered glass
	Frame	Anodized Aluminium Alloy	Anodized Aluminium Alloy
Thermal	Output cables	4mm ² cable 90cm+mc4	4mm ² cable 90cm+mc4
	MaxWind Load/Snow Load	2400Pa/5400Pa	2400Pa/5400Pa
	Thermal Output(W)	1210	385
	Panel area	2.17m ²	3.11m ²
	Heat exchanger volume	1.0L	1.56L
	Max operating pressure	0.8mpa	0.8mpa
	Flow rate	0.4L/S	1.3 L/S
	Hydraulic inlet/outlet	DN 15	DN 15
	Stagnation temperature	75.6°C	75.6°C
	Optical efficiency a_0	58.2%	58.2%
	Coefficient a_1	10.8W/K/m ²	10.8W/K/m ²
	Coefficient a_2	0W/(m ² ·K ²)	0W/(m ² ·K ²)
	Pipe count	8	8
	Pipe length	1917mm	2020mm
	Heating 100L(15-40°C)	11.hours	7.6hours
	Operation temperature	-40°C~+85°C	-40°C~+85°C

Product Details

High-quality components, stable performance

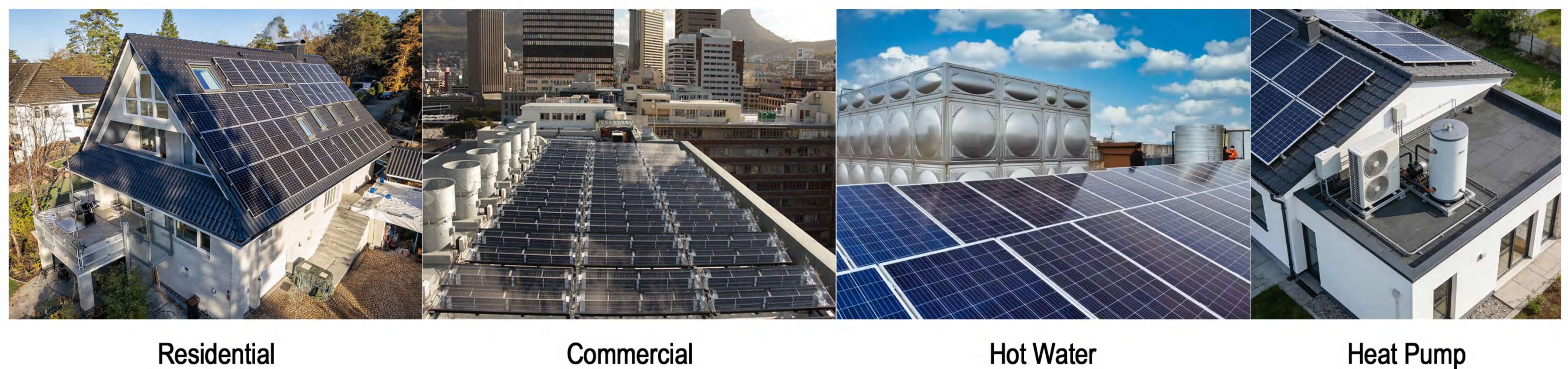
High-efficiency PV Cells
Monocrystalline silicon cells, excellent light transmission and conversion efficiency.

Copper Tube Heat Exchanger
Efficient heat transfer, fast thermal response.

Thermal Insulation
High-performance insulation minimizes heat loss and helps maintain stable thermal performance under different operating conditions.

Connection Interface
Standardized interface, convenient installation.

Case Study



Residential

Commercial

Hot Water

Heat Pump



Heat Pump Water Heater

(PV-Driven Heat Pump Water Heater Is In Development.)

The PV hybrid electric heat pump water heater is an advanced energy-efficient system that integrates a heat pump, water heater, and photovoltaic (PV) solar power technology into one complete solution. Unlike traditional electric water heaters that generate heat directly through electrical resistance, this system uses electricity generated by solar panels to power the heat pump, which extracts heat from the surrounding air and transfers it efficiently to heat the water.

By combining renewable solar energy with high-efficiency heat pump technology, the system significantly reduces electricity consumption and operating costs compared with conventional water heaters. The PV power supply allows users to maximize self-consumption of clean solar energy, while the heat pump provides stable hot water production even under different weather conditions. This makes it an ideal solution for residential, commercial, and green energy applications.



Supports direct connection with solar photovoltaic systems, maximizing the use of clean solar energy and reducing electricity costs.



Wi-Fi control (for option)



R134a is a proven, efficient refrigerant ideal for automotive and commercial cooling systems, offering reliability and non-ozone-depleting properties. R290 available.



The maximum hot water temperature can reach 70°C, effectively meeting your hot water requirements.



The enamel water tank is highly effective for storing hot water, offering benefits such as corrosion resistance, durability, excellent heat retention, and improved hygiene.



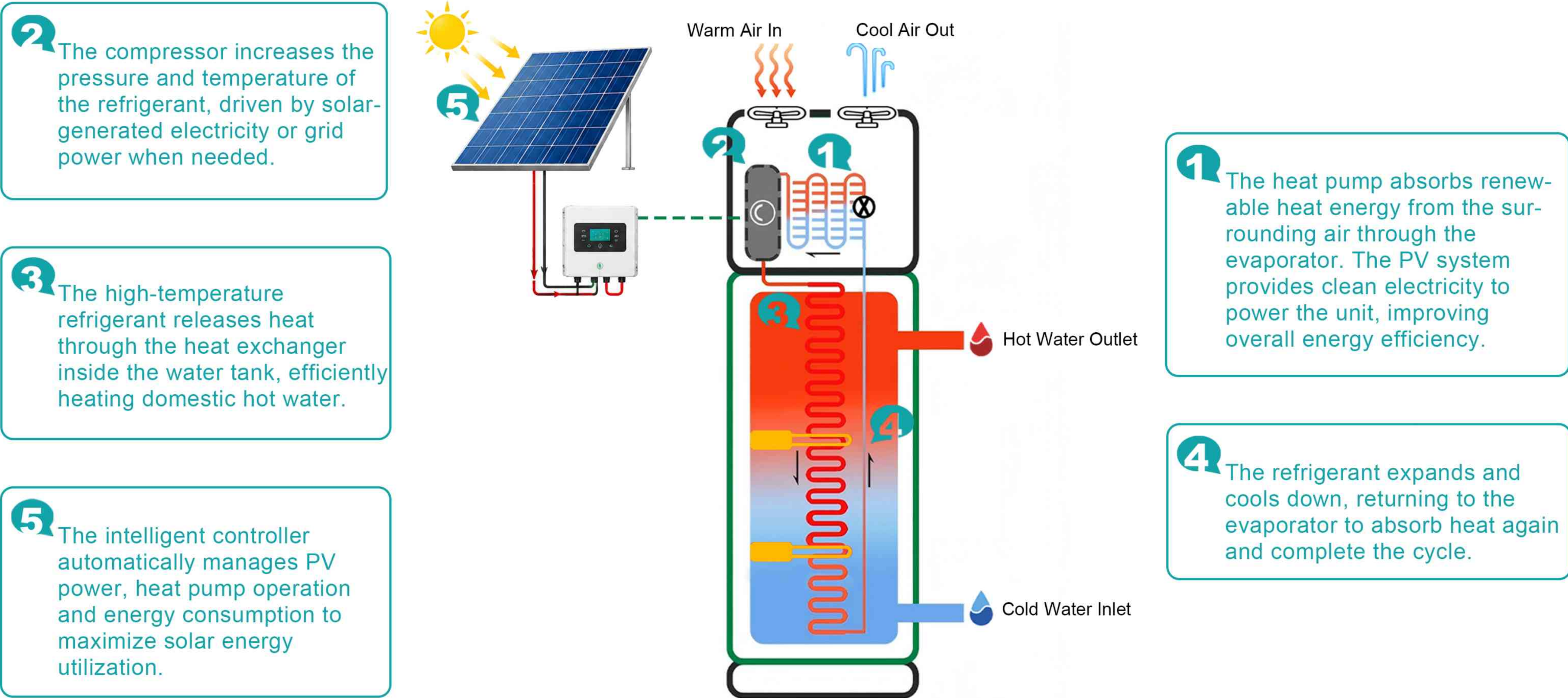
Smart controls allow you to easily adjust settings such as temperature, operating modes, and monitor efficiency, providing enhanced convenience and control.



Heat pumps can be up to three times more energy-efficient than traditional electric water heaters, offering significant energy savings.



These systems utilize renewable energy from the air, reducing dependence on electricity from non-renewable sources.



Heat Pump Water Heater Working Principle

Model	UNP-WSVT-150AA1	UNP-WSVT-200AA1	UNP-WSVT-300AA1
PV Compatibility	PV Ready	PV Ready	PV Ready
Recommended PV Power	0.6–0.8 kW	0.8–1.0 kW	1.0–1.2 kW
Product Dimensions	Φ510*1625	Φ570*1770	Φ640*2000
Power Supply	120V/60Hz		
Tank volume	150 Liter	200 Liter	300 Liter
Heating Capacity	1500 W		
Rated Input Power	350 W	470 W	623W
Max Input Power (Backup Electric Heating)	2685 W	2685 W	2890 W
Maximum current	12.2 A	12.2 A	13.4 A
COP	3.82	3.82	3.88
Refrigerant	R134a		
Compressor	GMCC	GMCC	Panasonic
Fan	Φ150		
Wire Controller	Digital screen, touch buttons		
High/low Pressure Switch	2.8~2.4/0.05-0.15 Mpa		
Power Cord Specifications	3m X 1.5mm ²	3m X 1.5mm ²	3m X 2.5mm ²
Heating Rate	39 L/h	39 L/h	52 L/h
Max Outlet Water Temperature (Pure Heat Pump)	70°C		
Ambient temperature	- 15~46 °C		
Waterproof Level	IPX4	IPX4	IPX4
Noise	≤52 dB(A)	≤52 dB(A)	≤53 dB(A)
Housing Material	Powder coated galvanized steel		
Water Tank	Tank with enamel interior		
Water Connection Size	G1/2"	G1/2"	G3/4"
Heat Exchanger Type	Microchannel heat exchanger		
Built-in Pressure Protection	0.8MPa		
Auxiliary Electric Heating	2000 W	2000 W	2000 W
Accessory Bag	one G1/2 relief valve、one pipe adapter、Manual	one G1/2 relief valve、one pipe adapter、Manual	one G3/4 relief valve、Manual
Packing Dimensions(L x W x H) (Carton and Pallet)mm	645*645*1700	645*645*1970	740*740*2200
Net Weight	85 kg	98 Kg	132 Kg

Notice:1.The specifications are based on the following conditions: DB/WB 20°C/15°C, Water temperature from 15°C to 55°C, Applicable ambient temperature -7~45°C.
2.The data above is for reference only. The specific parameters are subject to product nameplate.



High Energy Efficiency & Cost Savings

Reduced energy bills: High-efficiency heat pump technology can significantly reduce water heating costs compared with conventional electric water heaters.

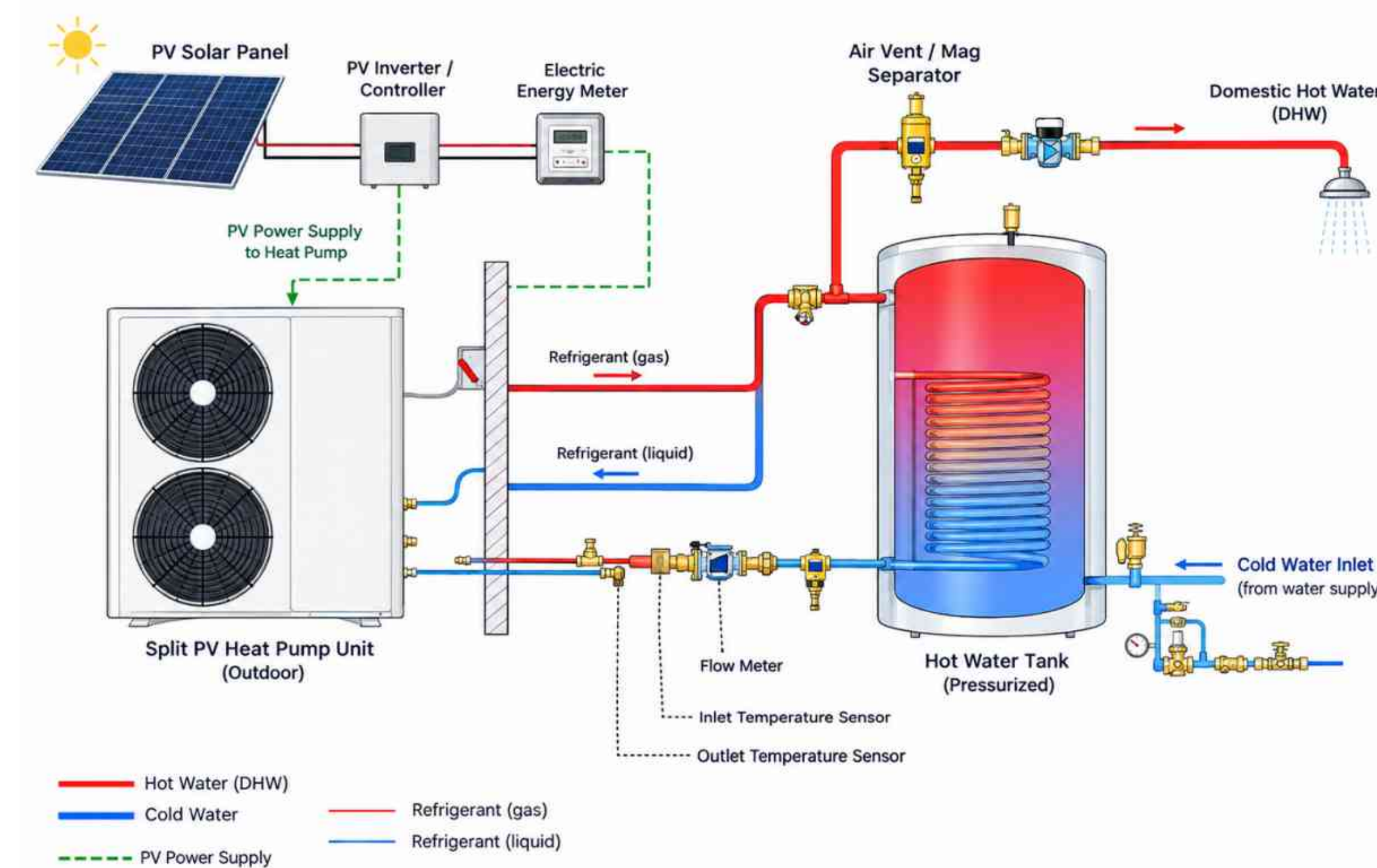
Lower carbon emissions: Since they rely on ambient heat rather than fossil fuels, they produce fewer greenhouse gases.

Operates in cold weather: Heat pump can function efficiently even at temperatures as low as -15°C (5°F).

Stable performance: Less prone to malfunctions compared to gas or electric heaters.

Durable components: Typically lasts 10-15 years, longer than traditional electric water heaters (6-10 years).

PV-Assisted Energy Saving



8 *PV power recommendations are based on typical solar irradiation conditions and may vary depending on local climate, operating conditions and daily hot water demand.

PV-Driven Heat Pump



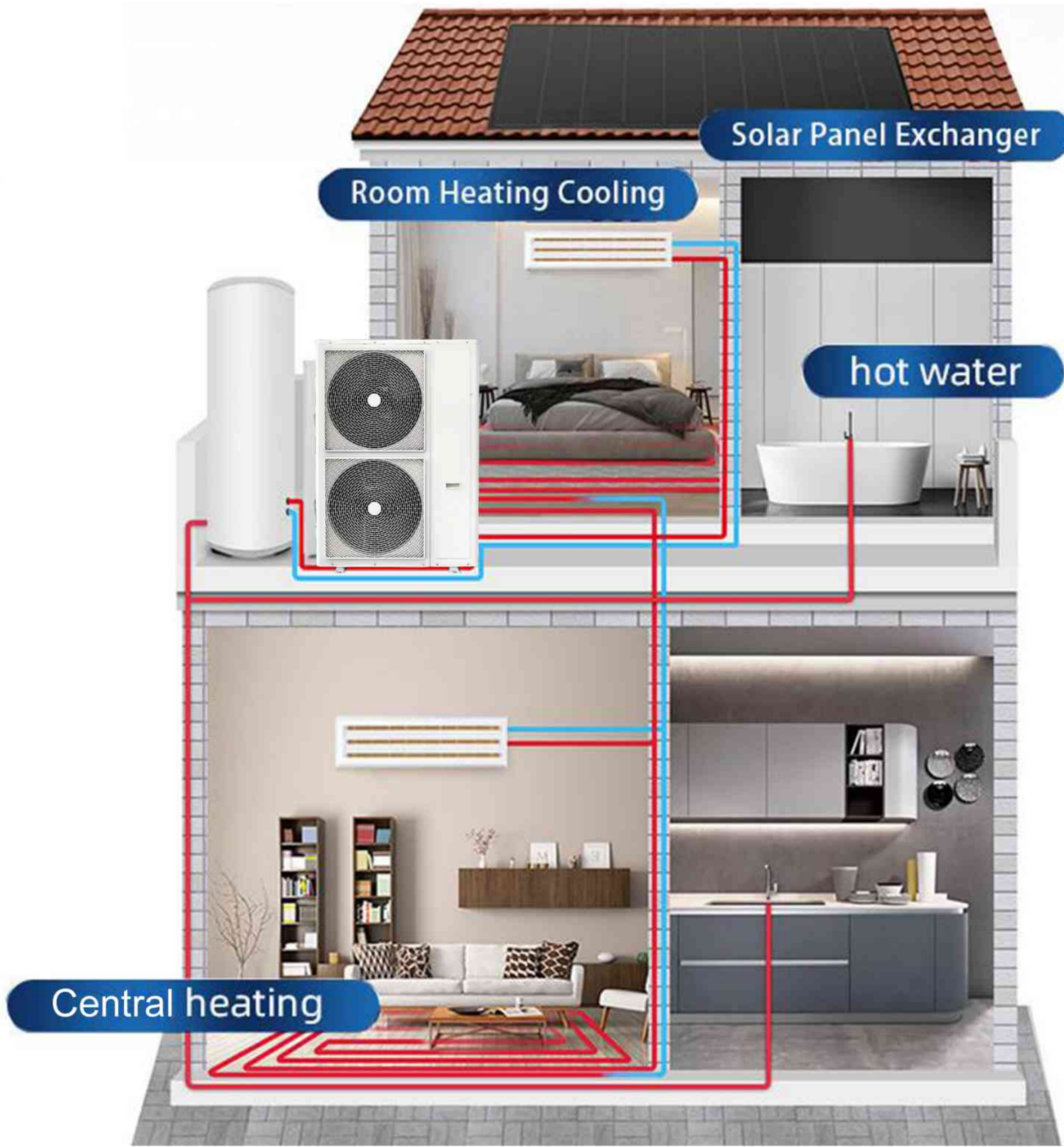
PV-Driven Heat Pump

(Heating/Cooling)

Our 3 in 1 PV Heat Pump is an all-in-one energy-efficient solution that combines heating, cooling, and domestic hot water in a single system. By utilizing renewable energy from photovoltaic (PV) power and advanced heat pump technology, it can provide comfortable indoor heating in winter, efficient cooling in summer, and reliable hot water throughout the year.

Compared with traditional heating, air-conditioning, and water-heating systems, this integrated heat pump helps reduce energy consumption, save installation space, and lower overall operating costs. It can be connected with a PV solar system to make better use of clean solar energy and reduce dependence on grid electricity.

With its versatile 3-in-1 design, the system is suitable for residential houses, villas, apartments, hotels, offices, and other commercial buildings, making it an ideal solution for customers looking for a more efficient and sustainable energy system.



Model		UNP-110C/BP	UNP-180C/BP	UNP-180C/BPII	UNP-220C/BP	UNP-220C/BPII
Rated heating capacity (A7 W45)	Heating capacity(W)	9000	18000		21000	
	Power(W)	2769	5620		6190	
	COP(W/W)	3.25	3.20		3.40	
Nominal heating capacity (A-12 W41)	Heating capacity(W)	6400	12000		16000	
	Power(W)	2645	4750		6290	
	COP(W/W)	2.42	2.52		2.54	
Low temperature heating (A-20 W41)	Heating capacity(W)	5400	11000		13800	
	Power(W)	2687	5260		6570	
	COP(W/W)	2.01	2.10		2.10	
Low temperature heating (A-25 W41)	Heating capacity(W)	6160	10500		12000	
	Power(W)	3520	5380		6060	
	COP(W/W)	1.75	1.95		1.98	
Low temperature heating (A-30 W41)	Heating capacity(W)	4080	9000		10000	
	Power(W)	2500	5000		5600	
	COP(W/W)	1.63	1.80		1.78	
Nominal cooling capacity (A35 W7)	Cooling capacity(W)	5700	12000		12000	
	Power(W)	2151	4490		4490	
	EER(W/W)	2.65	2.67		2.67	
HSPF		3.4	3.4		3.4	
APF		3.4	3.4		3.4	
Maximum input power(kW)		3.4	6.6	6.6	7.5	7.5
Maximum input current(A)		15	30	14	34	16
Power Supply		220V~/50Hz	220V~/50Hz	3N/380V~/50Hz	220V~/50Hz	3N/380V~/50Hz
Compressor	Brand	GMCC	Panasonic	Panasonic	Panasonic	Panasonic
	Model	EAPM240D57UMT	9KD420ZAA2J	9KD420ZAA2J	9KD420ZAA2J	9KD420ZAA2J
	Quantity	1	1	1	1	1
Water-side heat exchanger	Model	Double-pipe/Plate heat exchanger		Plate heat exchanger		
	Water flow rate(m³/h)	1.1	2.064		2.75	
	Water pressure drop(KPa)	45	45		45	
	Work-related stress(MPa)	1.0	1.0	1.0	1.0	1.0
Refrigerant/Charge Quantity		R410A/1500g	R410A/3000g		R410A/3800g	
Inlet and outlet pipe diameters		DN20	DN25	DN25	DN25	DN25
Electric heating function (optional) (W)			2000			
PV Direct Drive Function (Optional)	Matched number of photovoltaic panels	2-6	3-7/6-14	8-11	3-7/6-14	8-11
	PV Power (W)	500-800	500-620	500-800	500-620	500-800
Unit noise level (dB(A))		60	62		63	
Waterproof rating			IPX4			
Protection rating			Class I			
Unit dimensions (L × W × H, mm)		950*350*850	950*350*1250	950*350*1250	1000*390*1380	1000*390*1380
Outer packaging unit dimensions (L × W × H, mm)		1070*420*950	1070*420*1350	1070*420*1350	1150*460*1520	1150*460*1520
Unit weight (kg)		58	93	93	125	125
Operating ambient temperature range of the unit		Ambient temperature: -30°C to 45°C; Water temperature: 5°C to 55°C.				
Dual-platform remote control (PC/Mobile)		Optional				

10 The open-circuit voltage of a single photovoltaic (PV) panel must be between 45V and 50V; panels exceeding this range cannot be used. When connected in parallel, the power of a single PV panel must not exceed 620W; when connected in series, the maximum supported power is 800W. These standards must be strictly adhered to; the user assumes full responsibility for any losses resulting from failure to comply.

SOLAR AIR CONDITIONER



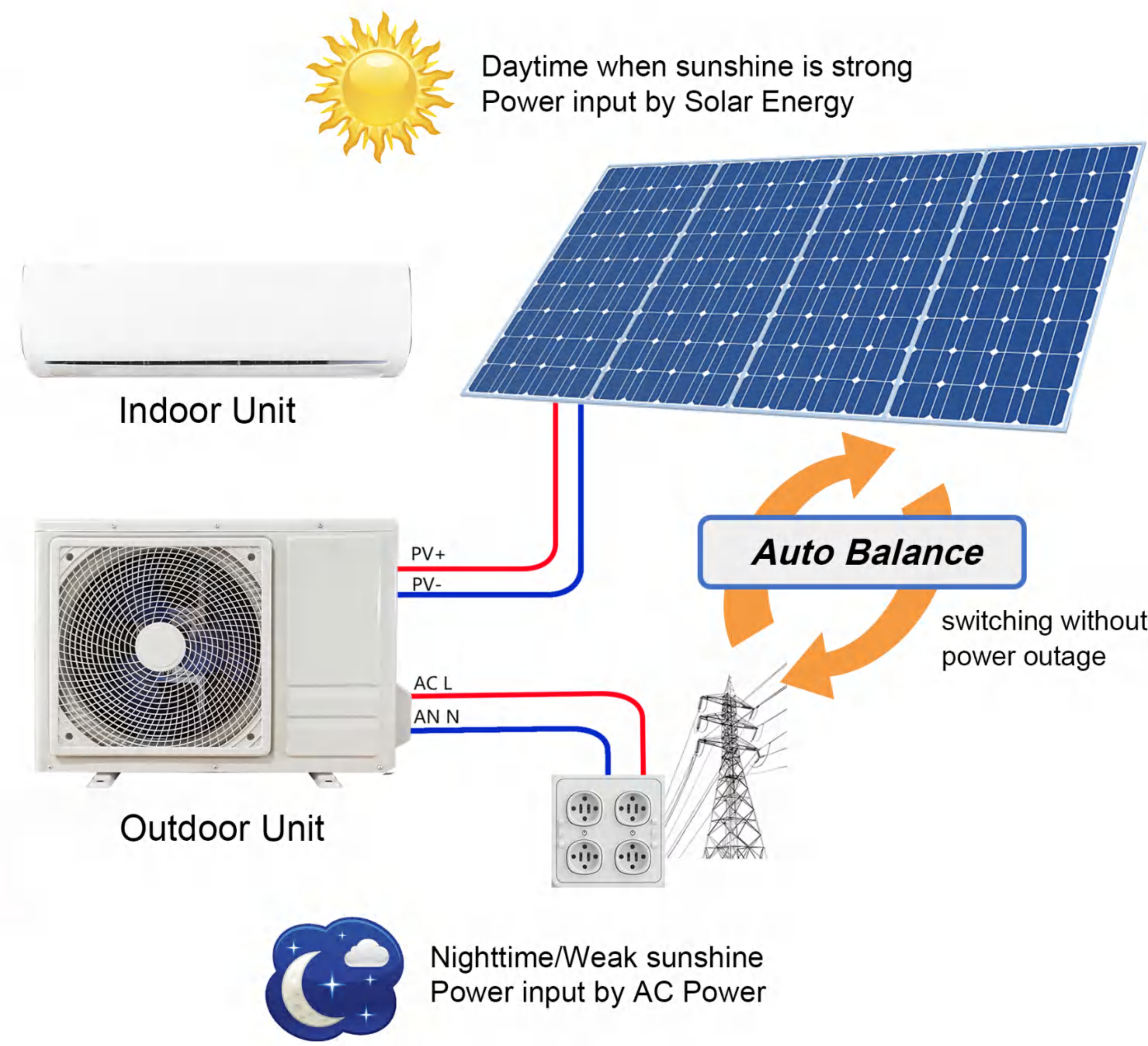


ACDC Hybrid Solar Power Air Conditioner

COPPER CE R32 INVERTER A+++ WIFI

Features:

- AC and DC dual power supply, limiting AC power usage,resulting in up to 50% savings on electricity bills.
- Multiple power modes: AC power mode, DC power mode, and AC+DC mixed power supply (AC/DC Auto Balance).
- Fully DC-driven system, achieving energy efficiency of up to SEER36 (compared to about SEER17 for traditional inverter air conditioners).
- Hybrid power prioritizes solar energy, with mains power as a supplement to ensure uninterrupted power supply.
- Designed for a wide voltage range, allowing free combination of solar panels without site limitations. DC Input: 80-380V.
- Adaptable to various climatic conditions with a wide operating temperature range (-10°C to 56°C).
- No inverter, no battery, and no charge controller required.



Parameters

Model			UNP-ACDC9K WIFI	UNP-ACDC12K WIFI	UNP-ACDC18K WIFI	UNP-ACDC24K WIFI
Unit	Capacity		9000BTU/0.75Ton/1HP	12000BTU/1Ton/1.5HP	18000BTU/1.5Ton/2HP	24000BTU/2Ton/3HP
Climate Type	Tropical<= 56℃		apply	apply	apply	apply
Application area		m2	10-20	15-25	20-35	30-45
Power Supply	AC Power	Ph-V-Hz	208-230V/50-60Hz	208-230V/50-60Hz	208-230V/50-60Hz	208-230V/50-60Hz
	DC Power	V	100-380V	100-380V	100-380V	100-380V
	Solar Power Current	A	≤12	≤12	≤12	≤12
Recommended Solar Panel		Pcs	(3-4)x400w	(3-4)x550w	(4-5)x550w	(5-7)x550w
Rated Cooling	Capacity	W	2600	3520	5200	7050
		BTU	9000(1700 ~11000)	12000(2300~13200)	18000(6500~19200)	24000(6500~25200)
	Power input	W	635(130 ~1000)	1000(260~1550)	1650(560~1900)	1860(680~2600)
Rated Heating	Capacity	W	2650	3550	5120	7120
		BTU	9000	12000	18000	24000
	Power input	W	640(130 ~1050)	960(260~1550)	1350(400~1900)	2050(680~2600)
EER (W/W)/ (BTU/W)		/	4.17/14.17	3.52/12.0	3.1/11.0	3.79/12.9
COP (W/W)/ (BTU/W)		/	4.14/14.06	3.70/12.5	3.79/13.33	3.47/11.70
Dehumidification capacity		L/h	1.1	1.3	1.9	2.3
Compressor	Model	/	GSX073NKQF6JT9	KSK103D33UEZ3	KSN140D21UFZ	KTM240D43UMT
	Type	/	ROTARY	ROTARY	ROTARY	ROTARY
	Brand	/	HIGHLY	GMCC	GMCC	GMCC
Indoor fan motor	Speed (Hi/Mi/Lo)	r/min	1130/1060/900	1130/1060/900	1200/1100/900	1350/1200/900
Indoor air flow (Hi/Mi/Lo)		m3/h	620/570/510	650/595/536	1200/970/630	1300/1150/650
Indoor noise level		dB(A)	≤40	≤43	≤49	≤50
Indoor unit	Dimension (W×H×D)	mm	801*298*210	900*290*195	1080*327*227	1080*327*227
	Packing (W×H×D)	mm	872*372*284	971*364*281	1150*405*310	1150*405*310
	Net weight/Gross weight	Kg	10/12	10/13	13/16	13/16
Outdoor noise level		dB(A)	≤51	≤50	≤57	≤59
Outdoor unit	Dimension (W×H×D)	mm	758*336*500	780*255*540	820*300*600	900*360*640
	Packing (W×H×D)	mm	806*361*545	885*355*615	925*410*650	1045*455*700
	Net weight/Gross weight	Kg	22/25	29/32.5	37/41	48/53
Refrigerant type		/	R32	R32	R32	R32
Refrigerant Charged		g	550	1100	1250	1400
Max Design pressure		MPa	4.30/2.5	4.30/1.15	4.30/1.15	4.30/1.15
Refrigerant copper pipe	Gas side/Liquid side	mm	9.52 / 6.35	9.52 / 6.35	12.70 / 6.35	15.88 / 6.35
Drain pipe size (Ø × Length)		mm	16.9*2000	16.9*2000	16.9*2000	16.9*2000
Refrigerant conenction copper pipe length		m	3	3	3.5	4
Connection wire length		m	4	4	4.5	5
Container Loading 20GP/40GP/40HQ		Sets	113/233/254	82/179/207	60/120/132	48/104/114

Note: 1.The above data is for reference only, please refer to the product nameplate;
2.The Company reserves the right to interpret the above data.

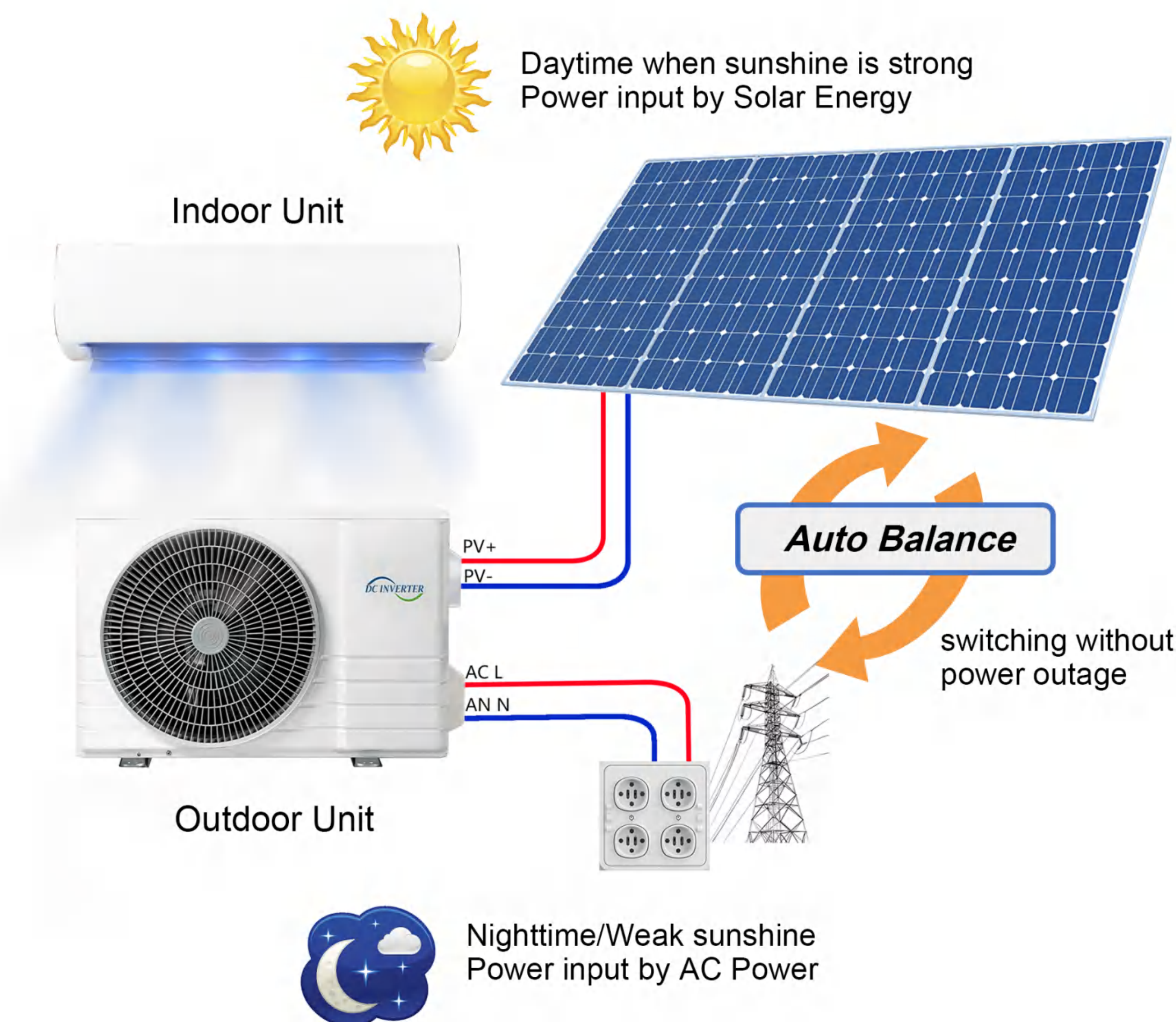


Only Cooling Solar Air Conditioner

COPPER R410a INVERTER A+++ WIFI

Features:

- AC and DC dual power supply, limiting AC power usage, resulting in up to 50% savings on electricity bills.
- With MPPT and solar power supply control system, the energy efficiency is up to 95%.
- Hybrid power with the priority of solar energy, mains power as supplement, to achieve uninterrupted power supply.
- Wifi,Bluetooth APP control: power meter, remote control, ECO setting, automatic on/off.
- Higher EER, lower power consumption in cooling mode.
- Lower failure rate, more durable: The simpler internal design, reduces the risk of refrigerant leaks and valve damage.



Parameters

Model			UNP-OCS-9K	UNP-OCS-12K	UNP-OCS-18K
Unit	Capacity		9000BTU/0.75Ton/1HP	12000BTU/1Ton/1.5HP	18000BTU/1.5Ton/2HP
Application area		m2	10-20	15-25	20-35
Power Supply	AC Power	Ph-V-Hz	1Ø200-240V/50-60Hz	1Ø200-240V/50-60Hz	1Ø200-240V/50-60Hz
	DC Power	V	80-380V	80-380V	80-380V
	Solar Power Current	A	≤12	≤12	≤12
Recommended Solar Panel		Pcs	(2-3)x400w	(3-4)x400w	(4-5)x400w
Rated Cooling	Capacity	BTU	9000(1700~11000)	12000(2300~13200)	18000(6500~19200)
	Power input	W	635(130~1000)	1000(260~1550)	1400(400~1900)
EER (BTU/W)		/	14.17	12.0	11.0
Dehumidification capacity		L/h	1.1	1.3	1.9
Compressor	Model	/	GSX073NKQF6JT9	GSX102BKSF6JV9	GSD113RKQF6JV6B
	Type	DC	Rotary Inverter	Rotary Inverter	Rotary Inverter
	Brand	/	HIGHLY	HIGHLY	HIGHLY
Indoor fan motor	Speed (Hi/Mi/Lo)	r/min	900/850/820	950/900/830	1020/920/860
Indoor air flow (Hi/Mi/Lo)		m3/h	600	700	800
Indoor noise level		dB(A)	40	42	45
Indoor unit	Dimension (W×H×D)	mm	801×298×210	801×298×210	890*322*215
	Packing (W×H×D)	mm	862×364×280	862×364×280	965×395×286
	Net weight/Gross weight	Kg	10/12	10/12	11/13
Outdoor noise level		dB(A)	51	52	54
Outdoor unit	Dimension (W×H×D)	mm	758×336×500	797×336×556	874×559×368
	Packing (W×H×D)	mm	806×361×545	855×367×600	913×604×396
	Net weight/Gross weight	Kg	21/24	23/28	28.5/32.5
Refrigerant type		/	R410a	R410a	R410a
Refrigerant Charged		g	630	700	900
Max Design pressure		MPa	4.3/1.15	4.3/1.15	4.3/1.15
Refrigerant copper pipe	Gas side/Liquid side	mm	6/9	6/9	6/12
Drain pipe size (Ø × Length)		mm	φ16×1400	φ16×1400	φ16×1400
Refrigerant conenction copper pipe length		m	3	3	3
Connection wire length		m	3.5	3.5	3.5
Container Loading 20GP/40GP/40HQ		Sets	113/239/258	94/200/242	81/175/195

NEW

ACDC Hybrid Solar Power Air Conditioner

ALUMINUM

CE

R32

INVERTER

A+++

WIFI

Features:

- AC & DC Hybrid Power Supply: Operates with both solar DC power and grid AC power for stable performance.
- Solar Priority Energy Saving: System automatically prioritizes solar energy, significantly reducing electricity consumption.
- Fully DC-Driven Technology: High efficiency DC compressor and DC fan motors ensure lower power usage.
- No Battery Required: Uses solar energy directly during daytime, avoiding battery investment and maintenance.
- High-Efficiency Aluminum Heat Exchanger: Corrosion-resistant aluminum coil provides fast heat transfer and longer service life.
- Suitable for High Temperature Areas (T3 Condition): Designed to operate reliably in extreme hot climates.
- Intelligent Control System: Optional WiFi smart control for convenient temperature management
- Lower Operating Cost & Eco-Friendly: Reduces carbon emissions and energy bills, ideal for residential and commercial use.



Aluminum condensers and evaporators

Parameters

Model		UNP-2026A/12K ACDC		UNP-2026A/18K ACDC		UNP-2026A/24K ACDC		UNP-2026A/30K ACDC		
Split Room Air Conditioner (Room Areas)		m2	15-25m2		20-32m2		35-45m2		40-50m2	
Rated Capacity	Cooling	W	3580		5250		6580		8260	
	Cooling	BTU	12000		18000		22500		28200	
	Heating	W	3630		5350		6850		8700	
Rated Power Consumption	Cooling	W	980		1500		1935		2500	
	Heating	W	970		1520		2050		2700	
Rated Running Current	Cooling	A	4.44		6.79		8.97		11.6	
	Heating	A	4.39		6.87		9.51		12.52	
Power supply (T3)	AC Power	Ph-V-Hz	208-230V/50-60Hz		208-230V/50-60Hz		208-230V/50-60Hz		208-230V/50-60Hz	
	DC Power	V	80-380V		80-380V		80-380V		80-380V	
	Solar Power Current	A	3.5A		7A		10.5A		12A	
	Recommended Solar Panel	Pcs	2x(600w±20%)		4x(600w±20%)		6x(600w±20%)		8x(600w±20%)	
Max. Input Power		W	1600		2100		2800		3500	
Max. Input Current		A	8.5		10		14		18.5	
EER Cooling		W/W	3.65		3.5		3.4		3.3	
COP Heating		W/W	3.74		3.52		3.34		3.22	
Power supply source		V/Ph/Hz	200-240V~/1Ph/50-60Hz							
Refrigerant			R32		R32		R32		R32	
Refrigerant Charged		g	430		590		760		980	
Max. Discharge Pressure		Mpa	4.3		4.3		4.5		4.5	
Max. Suction Pressure		Mpa	1.18		1.18		1.3		1.3	
Air Flow Volume		m3/h	680		750		1100		1100	
Noise level		dB(A)	42		45.5		48		48	
Noise level		dB(A)	51		57		58		58	
Indoor unit	Dimension (W×H×D)	mm	850*190*283		850*190*283		1120*325*250		1120*325*250	
	Packing (W×H×D)	mm	956*266*349		956*266*349		1180*390*290		1180*390*290	
	Net weight/Gross weight	Kg	9.5/11		13.5/16		14/16.5		15.3/18.9	
Outdoor unit	Dimension (W×H×D)	mm	790*285*545		790*285*545		820*300*600		820*300*600	
	Packing (W×H×D)	mm	855*340*590		855*340*590		910*360*640		910*360*640	
	Net weight/Gross weight	Kg	26/29		35/38		47/52		56/63	



3 in 1 Solar Power Air Conditioner

COPPER

R32

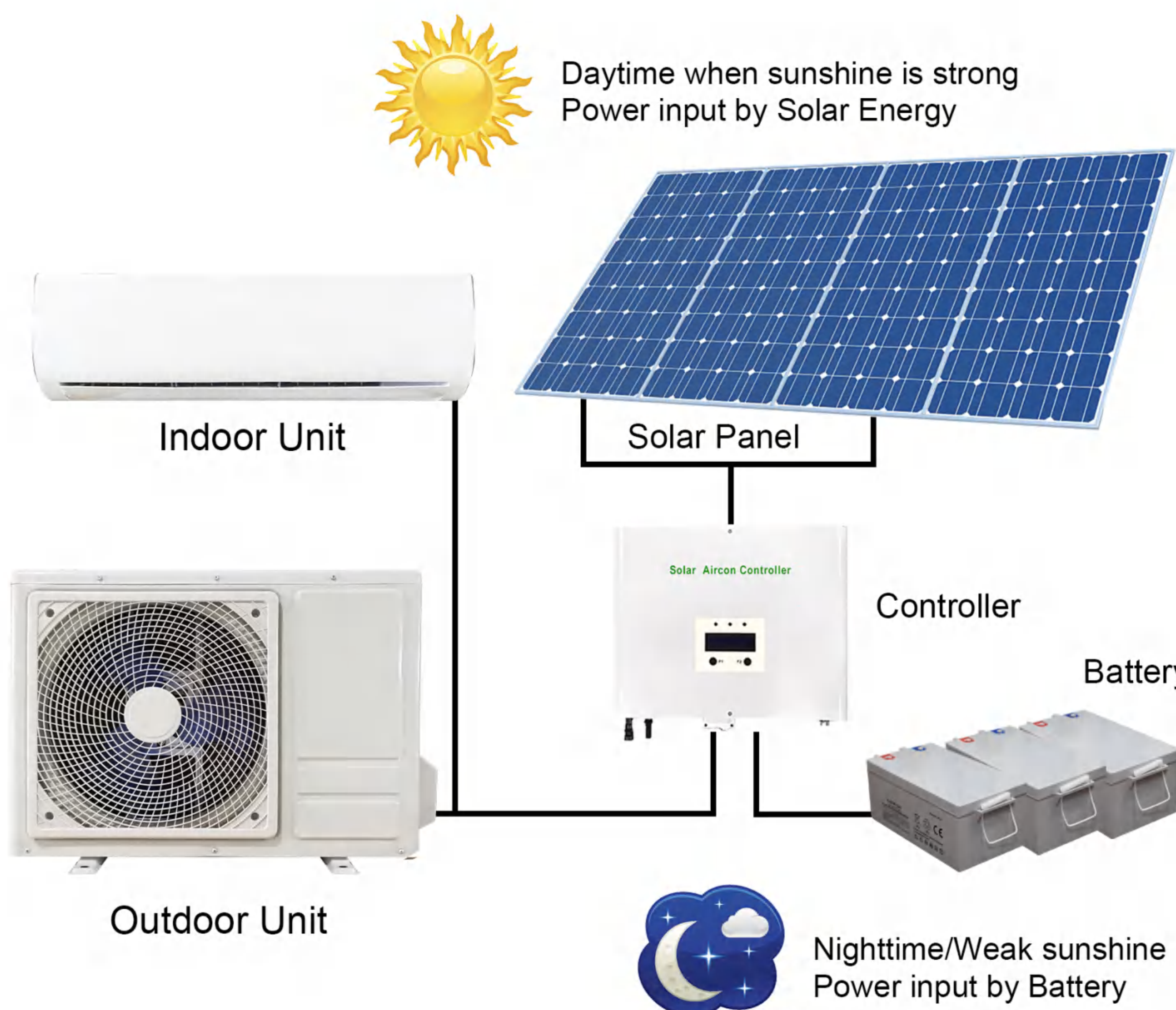
INVERTER

A+++

WIFI

Features:

- DC 48V compressor, indoor motor, and outdoor motor are all high-efficiency full DC motors without the need for conversion.
- Easy installation, similar to traditional air conditioners.
- Not affected by power supply or climate, making it suitable for use in all weather conditions.
- DC low-voltage operation ensures safe and reliable performance.
- DC 48V battery-powered with low voltage protection.
- These units can optionally run on small batteries, which need to be periodically charged with a minimal amount of electricity.



Parameters

Model			UNP-ACDC9K WIFI	UNP-ACDC12K WIFI	UNP-ACDC18K WIFI	UNP-ACDC24K WIFI
Unit	Capacity		9000BTU/0.75Ton/1HP	12000BTU/1Ton/1.5HP	18000BTU/1.5Ton/2HP	24000BTU/2Ton/3HP
Climate Type	Tropical<= 56℃		apply	apply	apply	apply
Application area		m2	10-20	15-25	20-35	30-45
Power Supply	AC Power	Ph-V-Hz	208-230V/50-60Hz	208-230V/50-60Hz	208-230V/50-60Hz	208-230V/50-60Hz
	DC Power	V	100-380V	100-380V	100-380V	100-380V
	Solar Power Current	A	≤12	≤12	≤12	≤12
Recommended Solar Panel		Pcs	(3-4)x400w	(3-4)x550w	(4-5)x550w	(5-7)x550w
Rated Cooling	Capacity	W	2600	3520	5200	7050
		BTU	9000(1700 ~11000)	12000(2300~13200)	18000(6500~19200)	24000(6500~25200)
	Power input	W	635(130 ~1000)	1000(260~1550)	1650(560~1900)	1860(680~2600)
Rated Heating	Capacity	W	2650	3550	5120	7120
		BTU	9000	12000	18000	24000
	Power input	W	640(130 ~1050)	960(260~1550)	1350(400~1900)	2050(680~2600)
EER (W/W) (BTU/W)		/	4.17/14.17	3.52/12.0	3.1/11.0	3.79/12.9
COP (W/W) (BTU/W)		/	4.14/14.06	3.70/12.5	3.79/13.33	3.47/11.70
Dehumidification capacity		L/h	1.1	1.3	1.9	2.3
Compressor	Model	/	GSX073NKQF6JT9	KSK103D33UEZ3	KSN140D21UFZ	KTM240D43UMT
	Type	/	ROTARY	ROTARY	ROTARY	ROTARY
	Brand	/	HIGHLY	GMCC	GMCC	GMCC
Indoor fan motor	Speed (Hi/Mi/Lo)	r/min	1130/1060/900	1130/1060/900	1200/1100/900	1350/1200/900
Indoor air flow (Hi/Mi/Lo)		m3/h	620/570/510	650/595/536	1200/970/630	1300/1150/650
Indoor noise level		dB(A)	≤40	≤43	≤49	≤50
Indoor unit	Dimension (W×H×D)	mm	801*298*210	900*290*195	1080*327*227	1080*327*227
	Packing (W×H×D)	mm	872*372*284	971*364*281	1150*405*310	1150*405*310
	Net weight/Gross weight	Kg	10/12	10/13	13/16	13/16
Outdoor noise level		dB(A)	≤51	≤50	≤57	≤59
Outdoor unit	Dimension (W×H×D)	mm	758*336*500	780*255*540	820*300*600	900*360*640
	Packing (W×H×D)	mm	806*361*545	885*355*615	925*410*650	1045*455*700
	Net weight/Gross weight	Kg	22/25	29/32.5	37/41	48/53
Refrigerant type		/	R32	R32	R32	R32
Refrigerant Charged		g	550	1100	1250	1400
Max Design pressure		MPa	4.30/2.5	4.30/1.15	4.30/1.15	4.30/1.15
Refrigerant copper pipe	Gas side/Liquid side	mm	9.52 / 6.35	9.52 / 6.35	12.70 / 6.35	15.88 / 6.35
Drain pipe size (Ø × Length)		mm	16.9*2000	16.9*2000	16.9*2000	16.9*2000
Refrigerant conenction copper pipe length		m	3	3	3.5	4
Connection wire length		m	4	4	4.5	5
Container Loading 20GP/40GP/40HQ		Sets	113/233/254	82/179/207	60/120/132	48/104/114

Accessories for Solar Power Air Conditioner

Solar Panel



High-efficiency solar panels designed to provide stable and reliable power for solar air conditioning systems.

- High Conversion Efficiency – Maximizes solar energy utilization
- Excellent Low-Light Performance – Maintains stable output under changing weather conditions
- Strong Weather Resistance – Suitable for outdoor and long-term operation
- Long Service Life – Durable design for reliable performance
- Flexible Configuration – Different power and voltage options available

Adjustable Solar Panel Rack



A durable mounting solution designed to optimize solar panel positioning and energy collection.

- Adjustable Tilt Angle – Helps optimize solar energy generation
- Strong & Durable – High-strength aluminum alloy or galvanized steel
- Corrosion Resistant – Suitable for long-term outdoor use
- Flexible Installation – Suitable for rooftop and ground installation
- Easy Assembly – Simple structure for convenient installation

Solar Aircon Controller



An intelligent MPPT controller designed to optimize solar power utilization and ensure stable air conditioner operation.

- High MPPT Efficiency – Maximizes available solar energy
- Wide PV Input Range – Adaptable to different solar panel configurations
- Intelligent Power Management – Optimizes power distribution during operation
- Multiple Protection Functions – Over-voltage, over-current, short-circuit and over-temperature protection
- Flexible Application – Suitable for different solar air conditioning systems

Battery



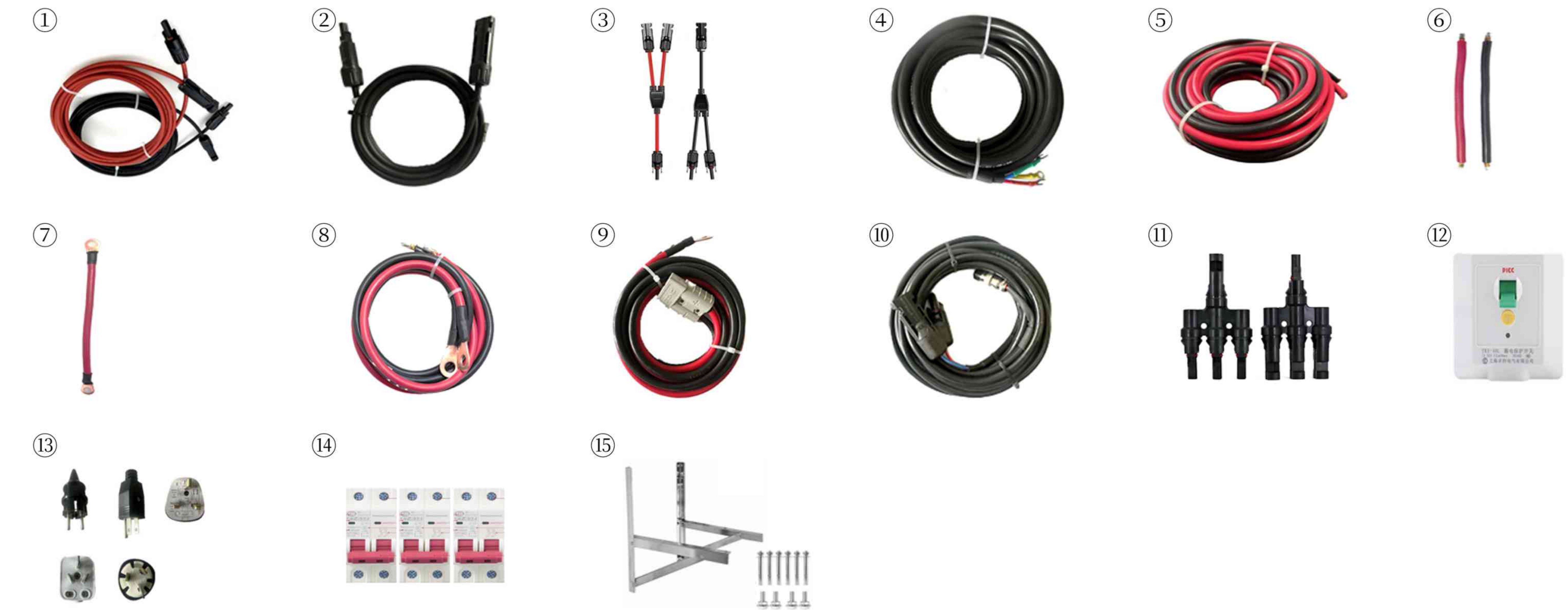
Optional energy storage solutions for extended solar air conditioner operation and backup power.

Lithium Battery

- Long Cycle Life – Suitable for frequent charging and discharging
- High Energy Density – More compact and lightweight
- Fast Charging – Efficient energy replenishment
- Built-in BMS – Provides intelligent battery protection
- Low Maintenance – Suitable for long-term operation

Lead-Acid Battery

- Cost-Effective – Economical solution for energy storage
- Reliable Performance – Mature and proven technology
- Good Durability – Suitable for regular backup applications
- Low Maintenance – AGM/GEL options available
- Wide Application – Suitable for off-grid and solar energy systems



- ①PV Cable + MC4 Connectors
- ②PV Panel Extension Cable + MC4 Connectors
- ③Photovoltaic connectors
- ④AC outdoor unit cable assembly
- ⑤DC Outdoor Unit Cable (Circuit Breaker to Air Conditioner)
- ⑥Connecting Cable (MPPT to Circuit Breaker)

- ⑦2TB Connecting Cable Assembly (Battery-to-Battery)
- ⑧1TB Connecting Cable Assembly (Circuit Breaker to Battery)
- ⑨Connection Cable 1TB + ADS (Controller-Battery)
- ⑩DC Cable with MC4 and Aviation Connector(Controller to Air Conditioner)

- ⑪Photovoltaic "Y"-type 4-way connector
- ⑫AC earth leakage protector
- ⑬Air conditioner plug (according to destination country specifications)
- ⑮Air conditioner outdoor unit bracket
- ⑭DC air circuit breaker

Consumable Parts



- Remote control
- Outdoor unit monitoring cable
- PCB control board
- Display panel
- Temperature sensing head



- Compressor
- Electronic control
- Outdoor unit DC encapsulated motor
- Indoor unit DC plastic-encapsulated motor
- Indoor unit stepper motor