

605117
STOCK CODE

Deye

Solar Heat Pump

Turn sunlight into Heating , environmental protection & energy saving



DC Inverter



WIFI control



Hybrid Solar



A+++



Precise
Temperature



Low Noise
Operation



Deye

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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



Global Sales Network



10+
Overseas Service
Centers



120+
Countries



4M+
Equipment in
Operation



CNAS Laboratory
Accreditation Certificate
and Related Laboratory
Qualifications



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Solar Air to Water Heat Pump

Turn sunlight into Heating , environmental protection & energy saving



DC Inverter



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Hybrid Solar



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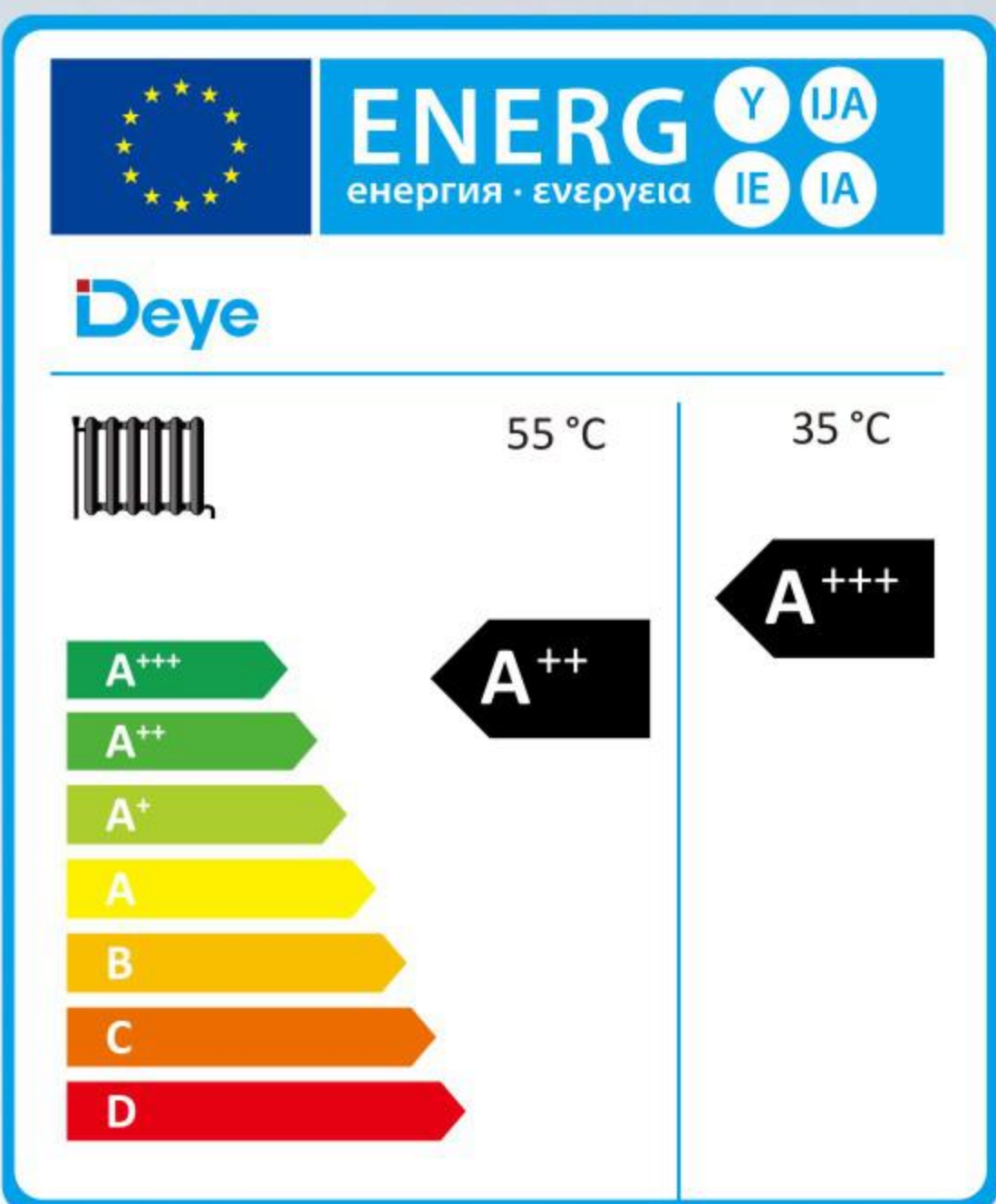
Precise Temperature



Low Noise Operation



SG Ready



Build in Solar MPPT



Intelligent control for detection and adjustment



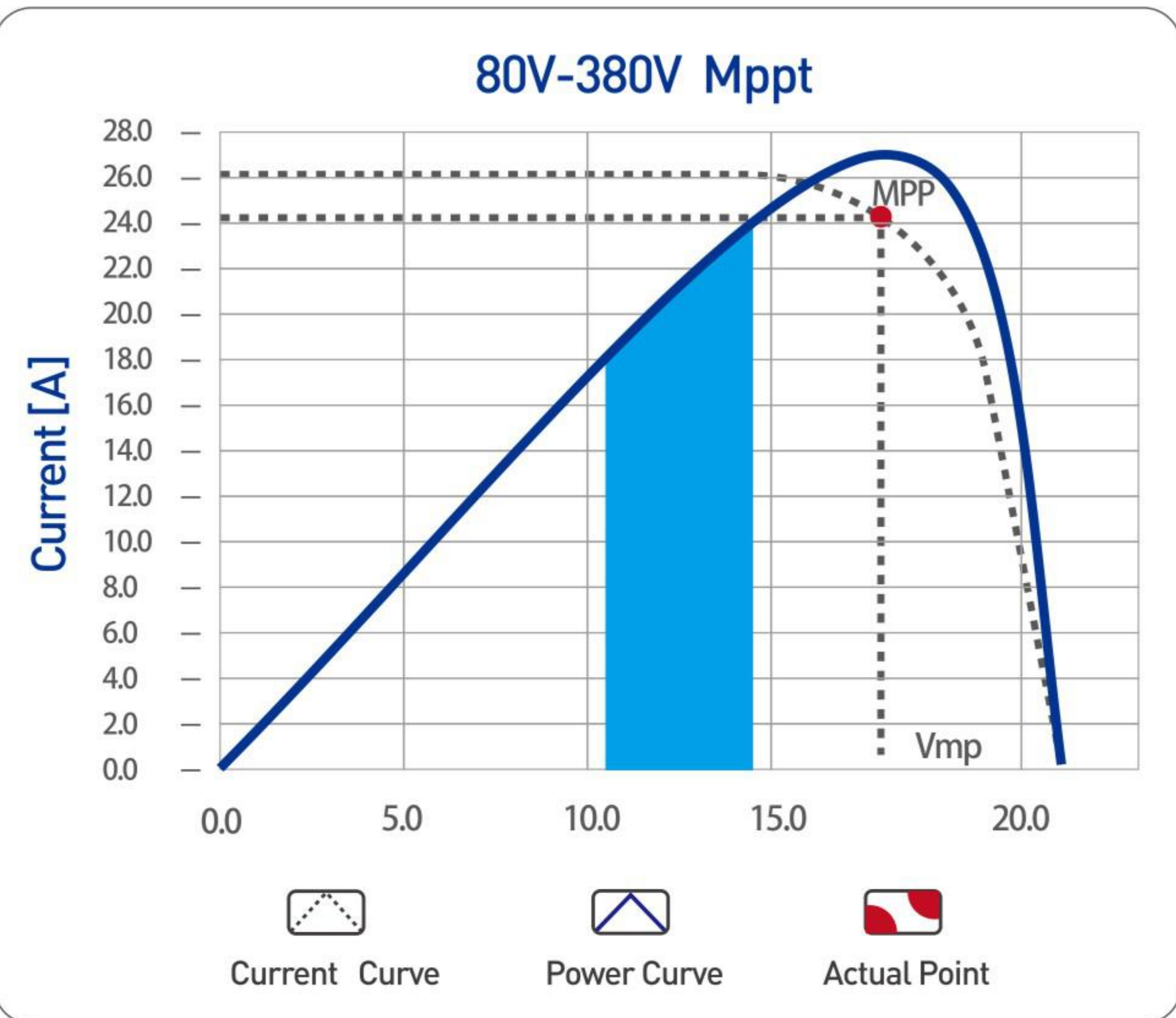
Efficiency : 99.9%



DC to DC 0 conversion lose



10+ years life design



SVPWM technology



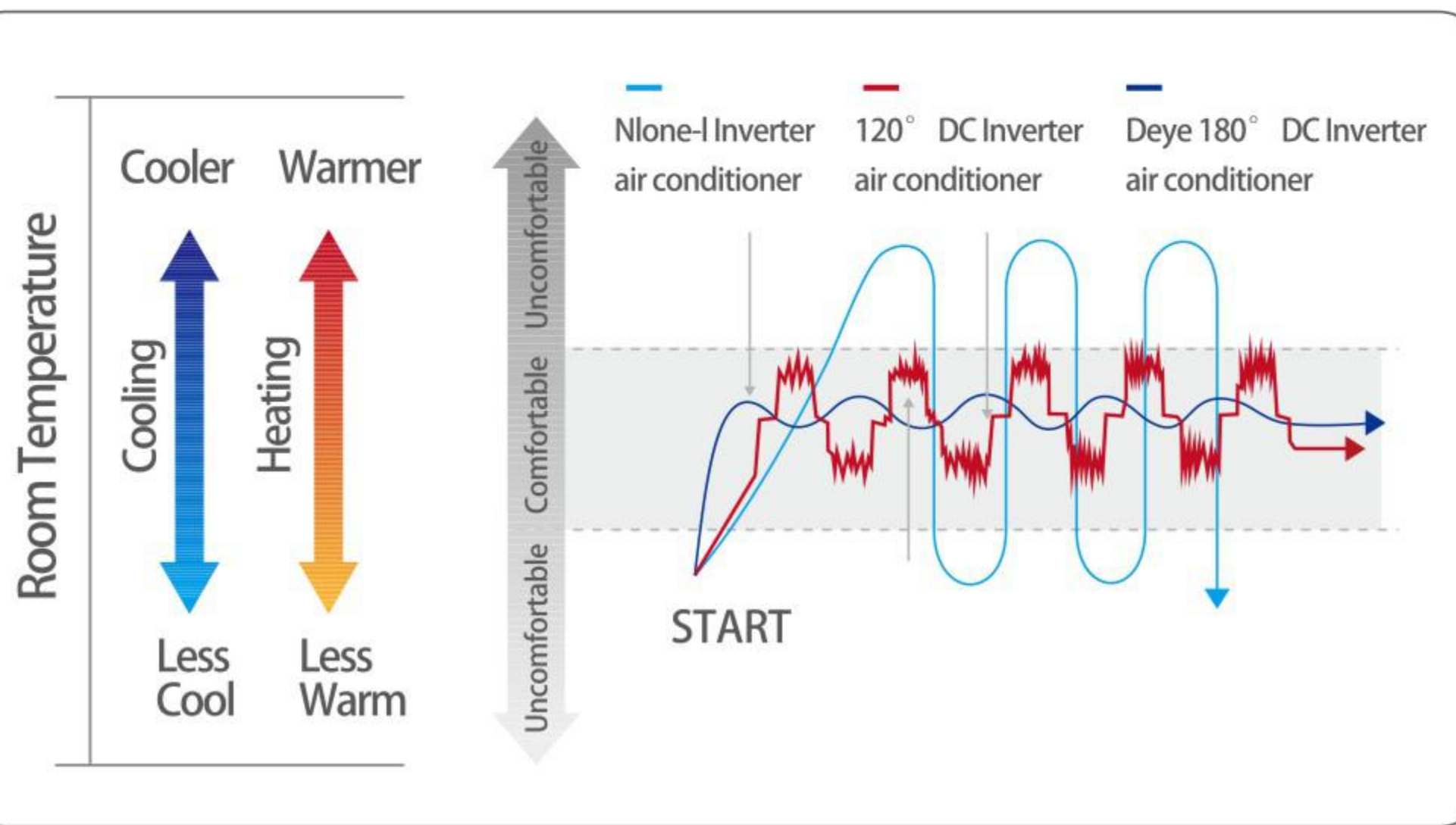
180° sine wave controller technology



Compressor runs below 0.1Hz



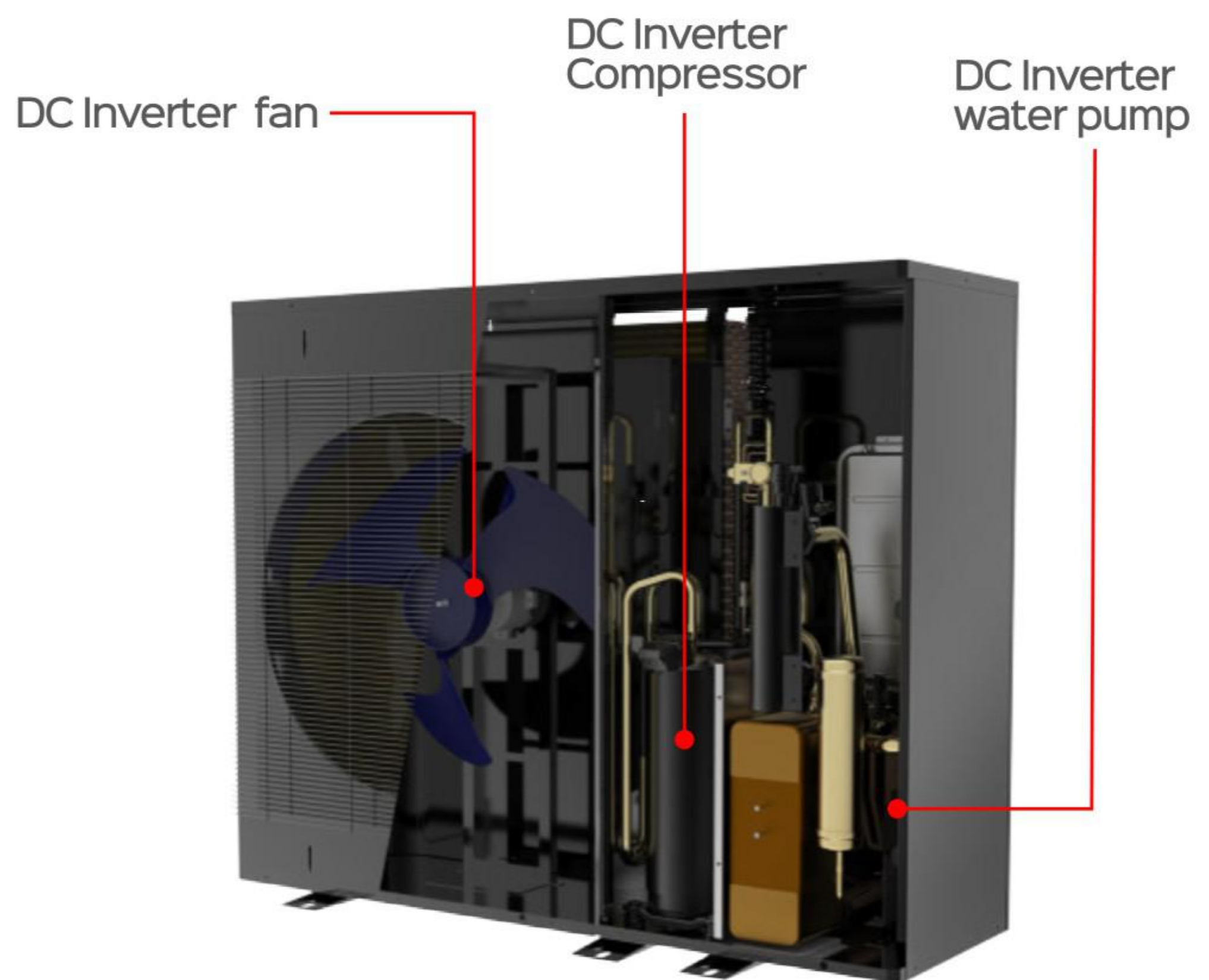
Operate during 50% voltage drop



Natural refrigerant R290



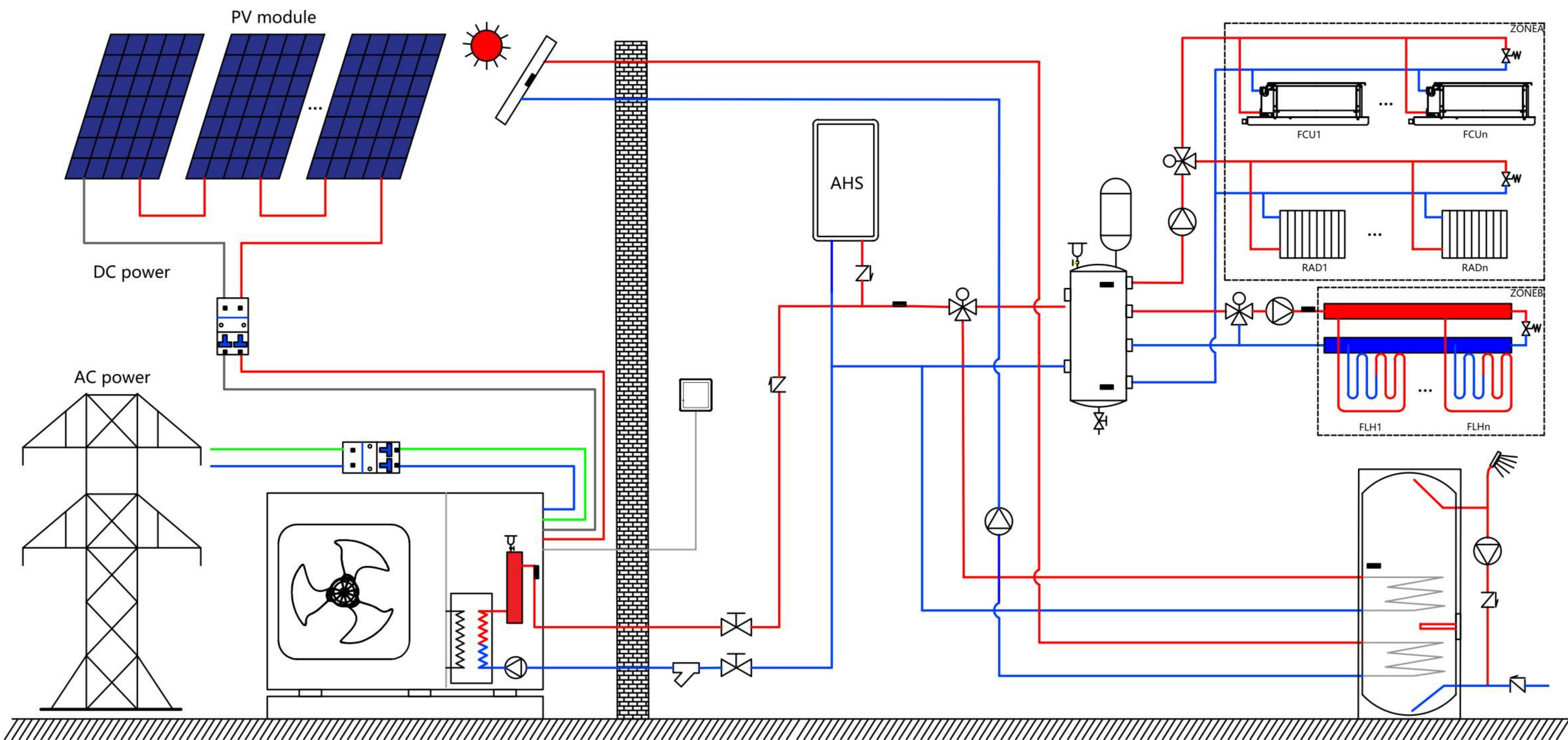
Parallel connection of multiple machines



Specifications

Model			4kw	6kw	8kw	10kw	12kw	14kw	16kw	12kw	14kw	16kw
			DAWFI-ACDC-04R3EP	DAWFI-ACDC-06R3EP	DAWGI-ACDC-08R3EP	DAWGI-ACDC-10R3EP	DAWGI-ACDC-12R3EP	DAWGI-ACDC-14R3E	DAWGI-ACDC-16R3EP	DAWGI-ACDC2-12R3EP	DAWGI-ACDC2-14R3EP	DAWGI-ACDC2-16R3EP
Power supply AC	Power AC	V/Ph/Hz	AC 220-240/1/50							AC 380-415/3/50		
Power supply DC PV String Input Data	Voc		DC 80 - 410V		DC 150 - 410V		DC 200-410V			DC 200-750V		
	Max. PV(DC) Input Current (A)		13		13+13		13+(13+13)			13+13		
	Max. PV ISC(A)		22		22+22		22+(22+22)			22+22		
	No.of MPPT Trackers		1		1		2			2		
	No.of Strings per MPPT Tracker		1		2		1+2			1		
Cooling (A35W18)	Capacity	kw	4.5	6.5	8.3	10.0	12.0	14.0	160	12.0	14.0	16.0
	EER		5.58	5.18	5.23	4.83	4.58	4.28	3.98	4.58	4.28	3.98
Cooling (A35W7)	Capacity	kw	4.7	6.8	7.5	8.9	11.5	12.7	14.0	11.5	12.7	14.0
	EER		3.75	3.2	3.55	3.35	3.15	3.00	2.85	3.15	3.00	2.85
Heating (A7W35)	Capacity	kw	4.5	6.2	8.4	10.0	12.0	14.0	15.0	12.0	14.0	15.0
	COP		5.20	5.0	5.1	4.8	4.9	4.6	4.5	4.9	4.6	4.5
Heating (A7W45)	Capacity	kw	4.50	6.4	8.2	10.0	12.0	14.0	15.0	12.0	14.0	15.0
	COP		4.14	3.89	3.94	3.74	3.79	3.59	3.44	3.79	3.59	3.44
Heating (A7W55)	Capacity	kw	4.6	6.2	7.8	9.5	12.0	14.0	15.0	12.0	14.0	15.0
	COP		3.29	3.19	3.29	3.14	3.19	3.09	2.94	3.19	3.09	2.94
Seasonal space heating energy efficiency class	LWT at 35 ℃		A++ +	A+ ++	A+ ++	A+++	A+++	A+ +	A++ +	A+++	A+++	A+ ++
	LWT at 55 ℃		A+ +	A++	A++	A++	A++	A++	A++	A++	A++	A++
ErP sound power level	Monobloc Unit	dB	55	55	56	56	57	57	58	57	57	58
Net dimension	Wx DxH	mm	1130x450x710		1283x455x1036		1283x455x1036			1283x455x1036		
Packing dimension	WxDxH	mm	1205x555x870		1360x545x1222		1360x545x1222			1355x545x1210		
Net weight	Monobloc Unit	kg	95		145		160			158		
Gross weight	Monobloc Unit	kg	106		159		174			172		
Refrigerant	Type/GWP		R290/3									
Operating ambient temp. range	Cooling	℃	-5~48									
	Heating	℃	-25~35									
	DHW(tank)	℃	-25 ~ 43									
Setting water temp. range	Cooling	℃	10 ~ 30 (LWT 5 ~ 25)									
	Heating	℃	25~80									
	DHW(tank)	℃	25~75									
Water circuit	Piping connections	inch	G1-1/4"									
	Safety valve set pressure	MPa	0.3									
	Flow switch	m³/h	0.36		0.6							
	Expansion tank Volume	L	5									
	Capacity of the back-up heater	kw	3					3			9	
Stuffing quantity	40H/40/20	Unit	117/78/36			68/33/16						

Installation Diagram



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Solar Swimming Pool Heat Pump

For Above and In Ground Pools and Spas

- Hybrid Solar
- WiFi control
- DC Inverter
- Precise Temperature
- Low Noise Operation



89%

1419W



11%

179W

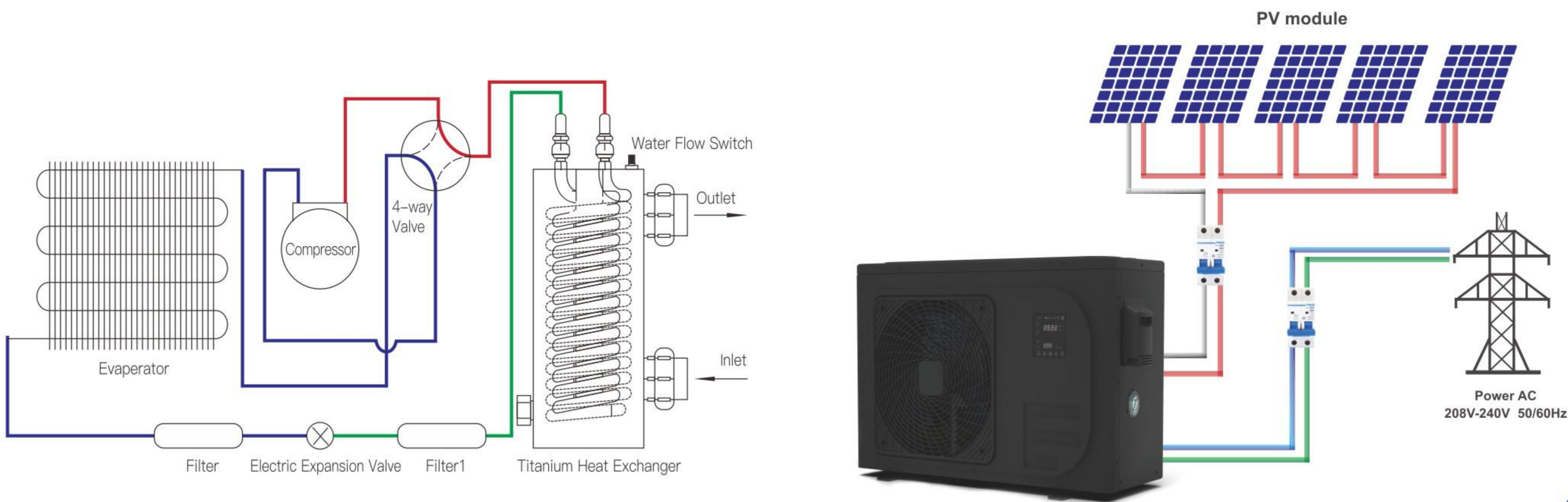


Solar Swimming Pool Heat Pump

Model	Unit	DSPD1-ACDC-10R2	DSPD1-ACDC-13R2	DSPD1-ACDC-15R2	DSPD1-ACDC-17R2
Rated Grid Power(AC)		208-240V 50/60Hz	208-240V 50/60Hz	208-240V 50/60Hz	208-240V 50/60Hz
Solar Panel Power(DC)		80-380V	80-380V	80-380V	80-380V
Heating Capacity(27/24.3°C)	kW	2.1-10.2	2.3-13.6	2.4-15.5	2.4-17.0
Heating Power Input	kW	0.14-1.57	0.15-2.09	0.15-2.58	0.15-2.83
COP		15.5-6.5	15.8-6.5	16.0-6.0	16.0-6.0
Heating Capacity(15/12°C)	kW	1.6-7.3	1.8-9.5	1.9-11.7	1.9-13.0
Heating Power Input	kW	0.21-1.52	0.24-1.98	0.25-2.44	0.25-2.71
COP		7.7-4.8	7.5-4.8	7.6-4.8	7.6-4.8
Cooling Capacity(35/24C)	kW	6.7~1.3	7.2~1.7	7.2~1.7	7.8~2.1
Cooling Power Input	kW	1.85~0.19	2.0~0.25	2.0~0.25	2.2~0.31
EER		3.62~6.85	3.6~6.7	3.6~6.7	3.55~6.7
Max Power Consumption	kW	2.11	2.97	2.97	2.97
Max Current(AC)	A	9.2	13.0	13.0	13
Max Current(DC)	A	12.0	12.0	12.0	12
Water Proof Level		IPX4	IPX4	IPX4	IPX4
Electric Shock Prevention		Class I	Class I	Class I	Class
Refrigerant		R32	R32	R32	R32
Compressor		Rotary	Rotary	Rotary	Rotary
Water Side Heat Exchanger		Titanium	Titanium	Titanium	Titanium
Air Side Heat Exchanger		Finned tube	Finned tube	Finned tube	Finned tube
Fan Power Input	W	55	55	55	55
Fan Direction		Horizontal	Horizontal	Horizontal	Horizontal
Water Connection	mm	48.3	48.3	48.3	48.3
Water Flow Volume	m3/h	3.2	4.0	4.6	4.6
Water Pressure Drop(max)	kPa	5.5	8.0	10.0	10
Noise(1m)	dB(A)	39-51	42-53	43-54	43-54
Unit Net Dimensions(L/W/H)	mm	995×432×633	995×432×633	995×432×633	995x432x633
Unit Ship Dimensions(L/W/H)	mm	1063×475×695	1063×475×695	1063×475×695	1063x475x695
Net Weight	kg	45	48	50	50
Shipping Weight	kg	50	53	55	55
"Advised Pool Volume"	m³	25~50	30~60	36~65	40~70
stuffing quantity	40H/40/20	155/144/72	155/144/72	155/144/72	155/144/72

Heating : Outdoor air temp : 27/24.3°C , Inlet water temp : 26°C
Outdoor air temp : 15/12°C , Inlet water temp : 26°C
Operating range :
Ambient temperature : -15~43°C
Inlet Water temperature : 10~35°C
Cooling : Outdoor air temp:35°C,outlet water temp.27°C

Installation Diagram

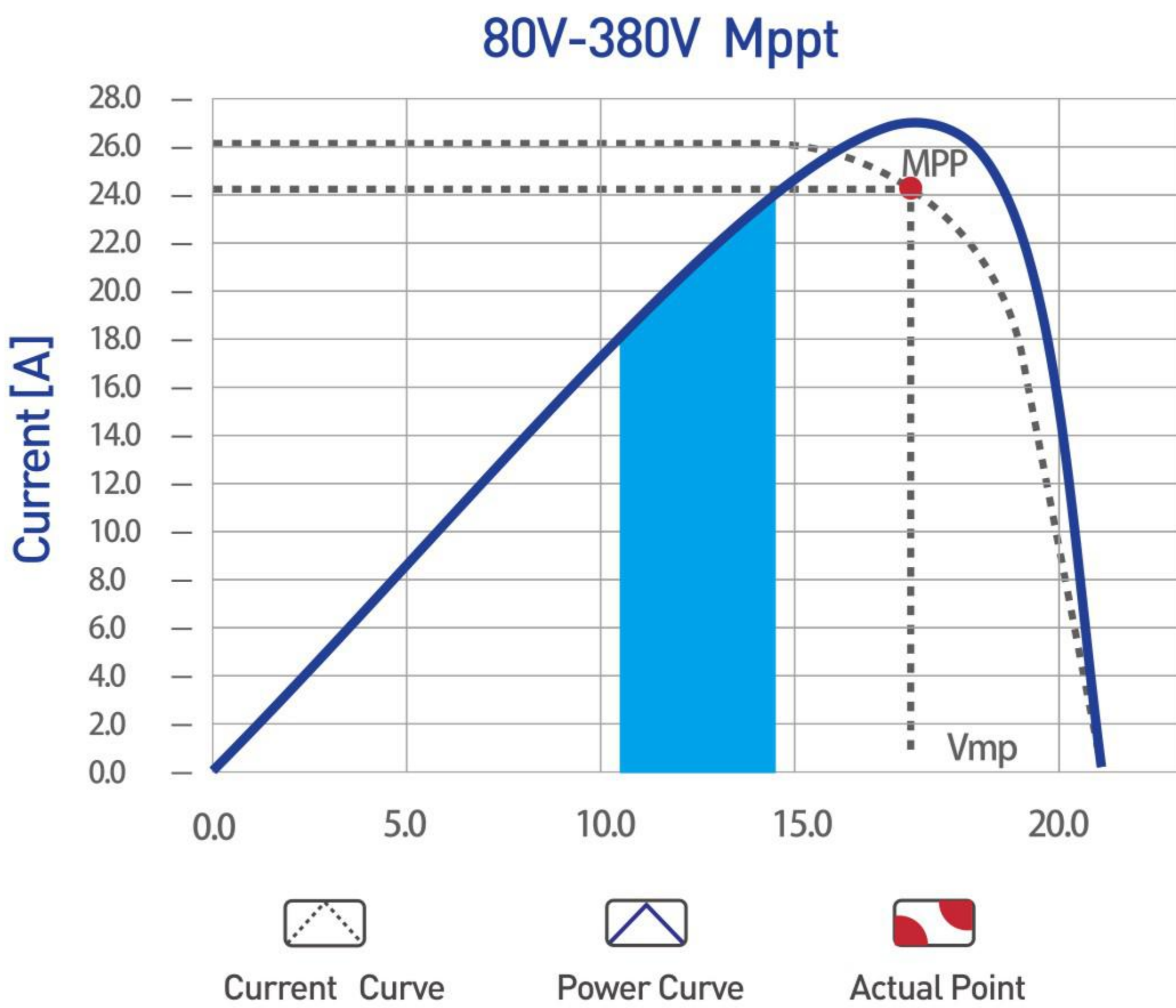


CB CE

DC-driven technology

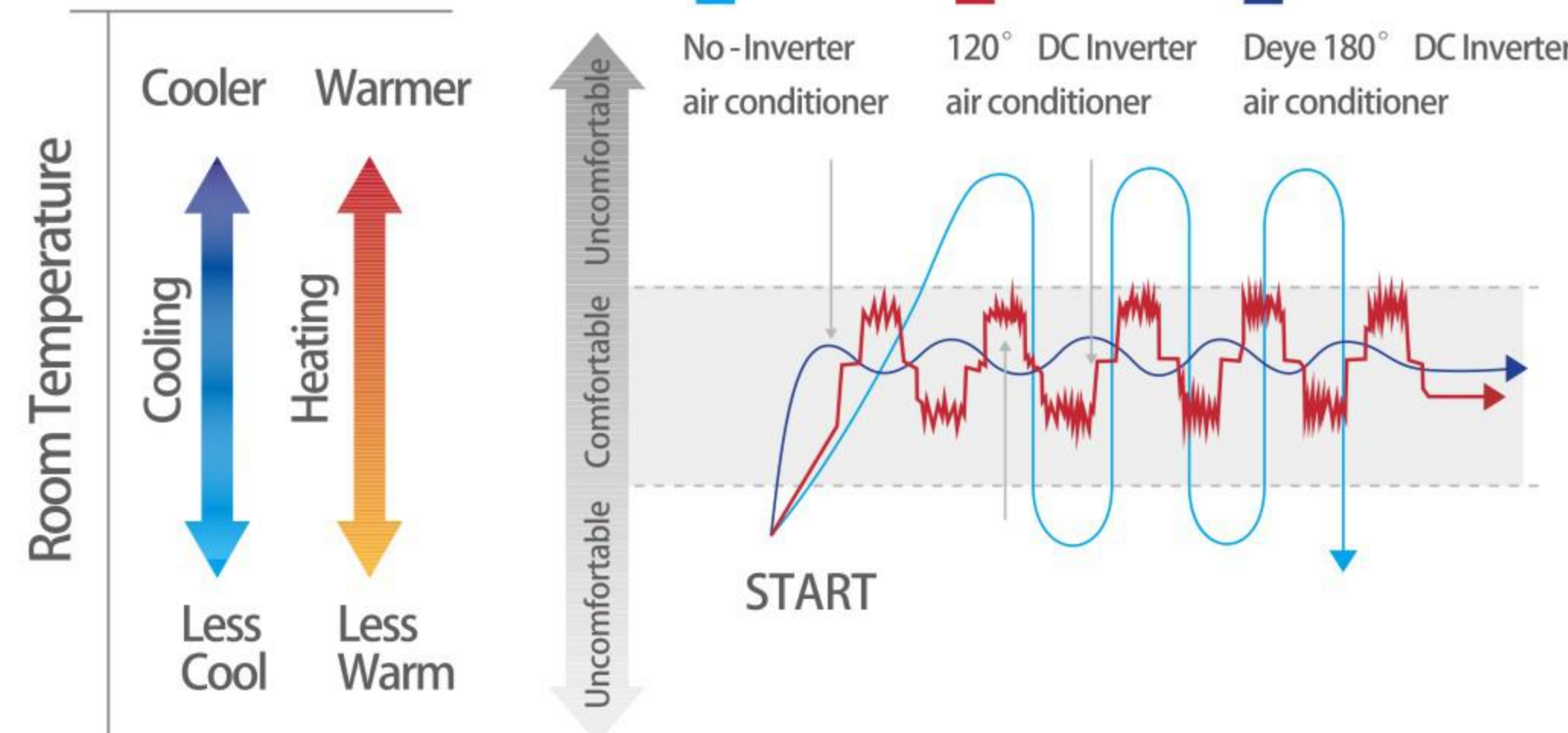
Build in Solar MPPT

- 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



Wide Voltage input

