605117
STOCK CODE

Deye

DEYE R290
HEAT PUMP MONOBLOCK

CE ERP SG Ready Smart Heat Pumps MCS BAFA LIST



Specifications

R290

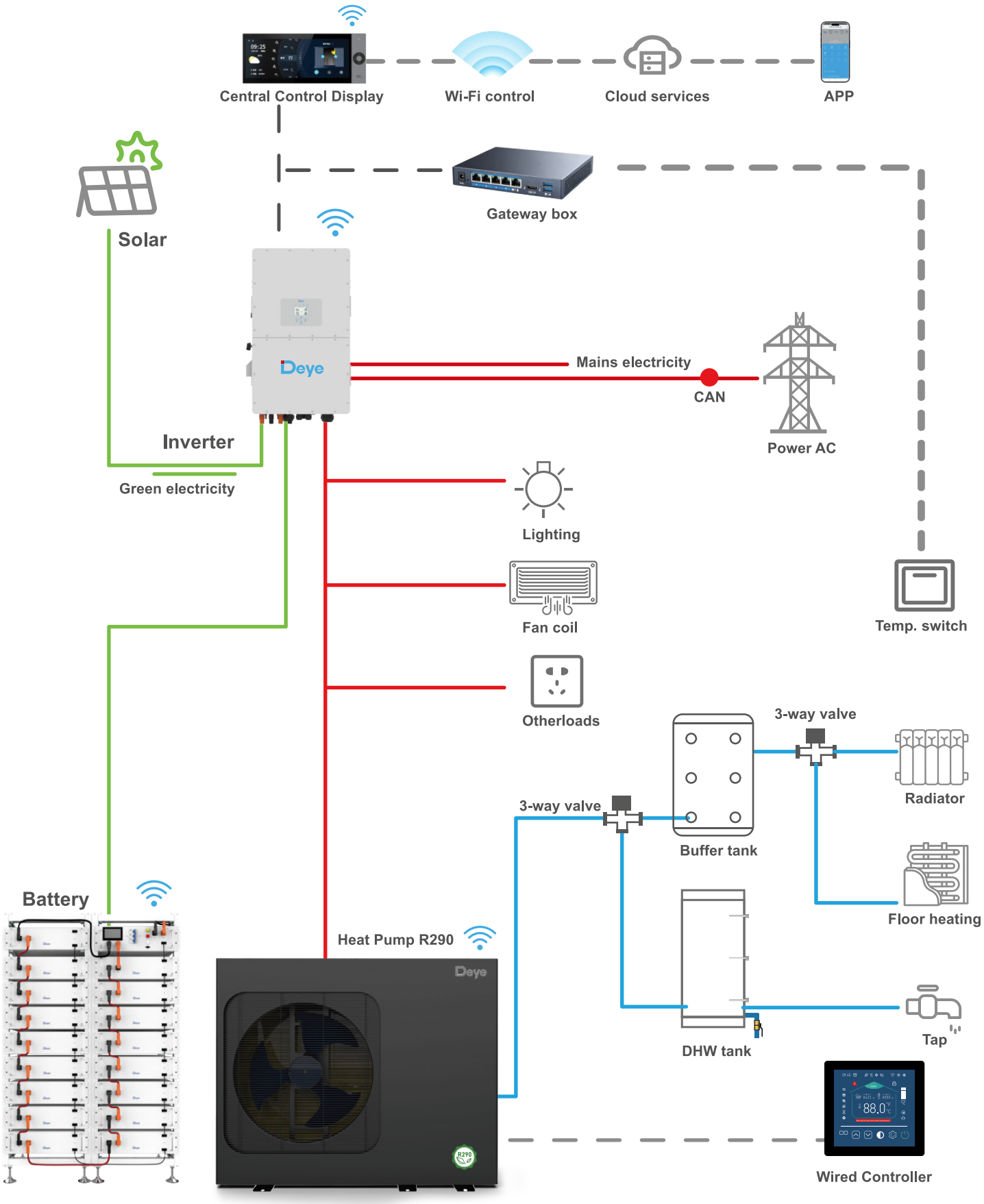
Model			8kW	10kW	12kW	16kW	12kW	16kW
			DAWG1-ACDC-08R3EP	DAWG1-ACDC-10R3EP	DAWG1-ACDC-12R3EP	DAWG1-ACDC-16R3EP	DAWG1-ACDC2-12R3EP	DAWG1-ACDC2-16R3EP
Power supply AC	Power AC	V/Ph/H	AC 220-240/1Ph/50/60Hz				AC 380-415/3Ph/50/60Hz	
Cooling(A35W18)	Capacity	kw	8.3	10.0	12.0	16.0	12.0	16.0
	Rated input	kw	1.61	2.11	2.67	4.10	2.67	4.10
	EER		5.15	4.75	4.50	3.90	4.50	3.90
Cooling(A35W7)	Capacity	kw	7.5	8.9	11.5	14.0	11.5	14.0
	Rated input	kw	2.17	2.74	3.77	5.09	3.77	5.09
	EER		3.45	3.25	3.05	2.75	3.05	2.75
Heating(A7W35)	Capacity	kw	8.4	10.0	12.0	15.0	12.0	15.0
	Rated input	kw	1.68	2.13	2.50	3.41	2.50	3.41
	EER		5.00	4.70	4.80	4.40	4.80	4.40
Heating(A7W45)	Capacity	kw	8.2	10.0	12.0	15.0	12.0	15.0
	Rated input	kw	2.13	2.74	3.24	4.48	3.24	4.48
	COP		3.85	3.65	3.70	3.35	3.70	3.35
Heating(A7W55)	Capacity	kw	7.8	9.5	12.0	15.0	12.0	15.0
	Rated input	kw	2.44	3.11	3.87	5.26	3.87	5.26
	COP		3.20	3.05	3.10	2.85	3.10	2.85
Seasonal space heating energy efficiency class	LWT at 35℃		A+++	A+++	A+++	A+++	A+++	A+++
	LWT at 55℃		A+++	A+++	A++	A++	A++	A++
ErP sound power level	Monobloc unit	dB	56	57	57	58	57	58
Net dimension	WxDxH	mm	1283x455x1036		1283x455x1036		1283x455x1036	
Packing dimension	WxDxH	mm	1360x545x1222		1360x545x1222		1360x545x1222	
Net weight	Monobloc unit	kg	150		167		175	
Gross weight	Monobloc unit	kg	174		191		199	
Refrigerant	Type/GWP		R290/3					
	Charged volume	kg	1.1		1.43		1.43	
Max power Input		kw	2.9	3.4	4.8	5.9	4.8	5.9
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	

Notes:
1. Seasonal space heating energy efficiency class testes in average climate general conditions.
2. Testing standard: EN12102-1.
3. The maximum input power does not include the power of the back-up electric heater;
4. Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811/2013; (EU) No 813/2013; OJ 2014/C 207/02:2014.

- All DC Inverter
- R290 ECO
- SG Ready
- Cloud Service Energy Mgmt.
- A+++
- DHW to 70 °C
- Zone Control
- Wi-Fi
- ECO Mode
- Automatic Water Temp. Adjustment
- Security (Leakage Control)
- Modbus
- Holiday mode
- Sterilisation to 65°C
- Modular 8 units
- OTA

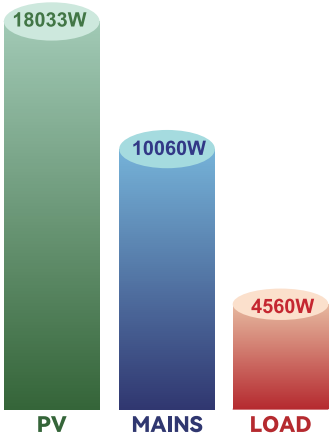
Deye Smart Home
One-Stop Zero-Carbon Home System
Integrated PV Energy Storage, and Heat Pump Solutions

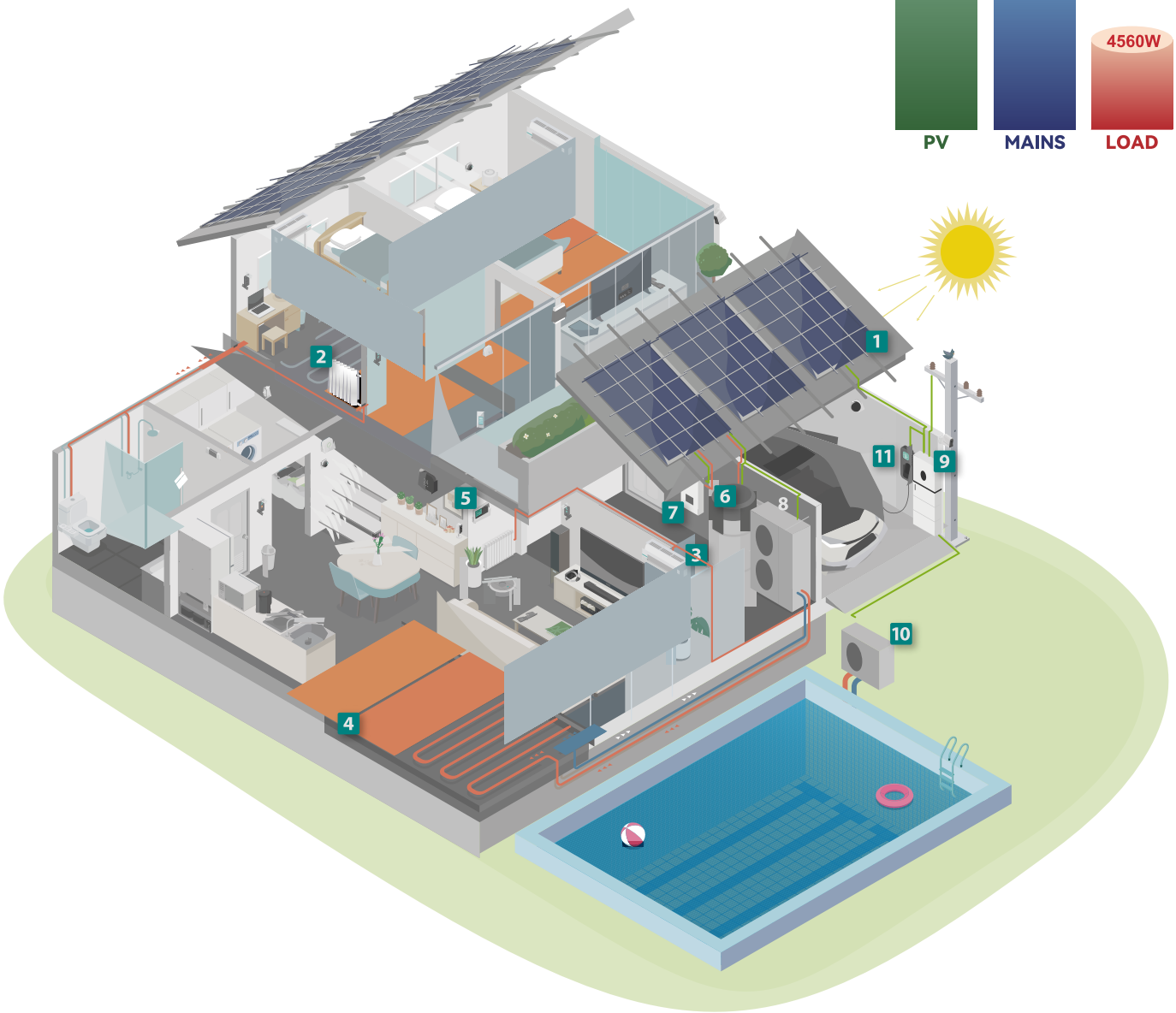
AC cable | DC cable | Water flow



One Stop Zero Carbon House Solutions

Deye is dedicated to shaping a greener, carbon-free future by advancing low-carbon technologies and driving high-quality development.Upholding the mission “Green World, Better Life,” we deliver integrated photovoltaic, energy storage, and heat pump solutions that enable cleaner energy generation, smarter consumption, and greater energy independence.With Deye’s all-in-one energy systems, households and businesses can reduce electricity and fuel costs while actively contributing to global net-zero ambitions.

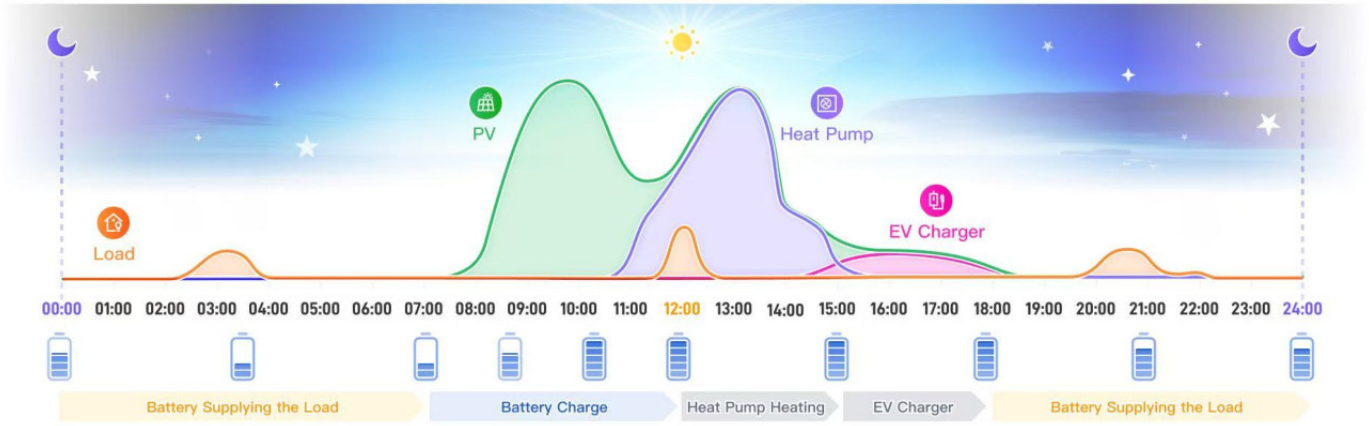




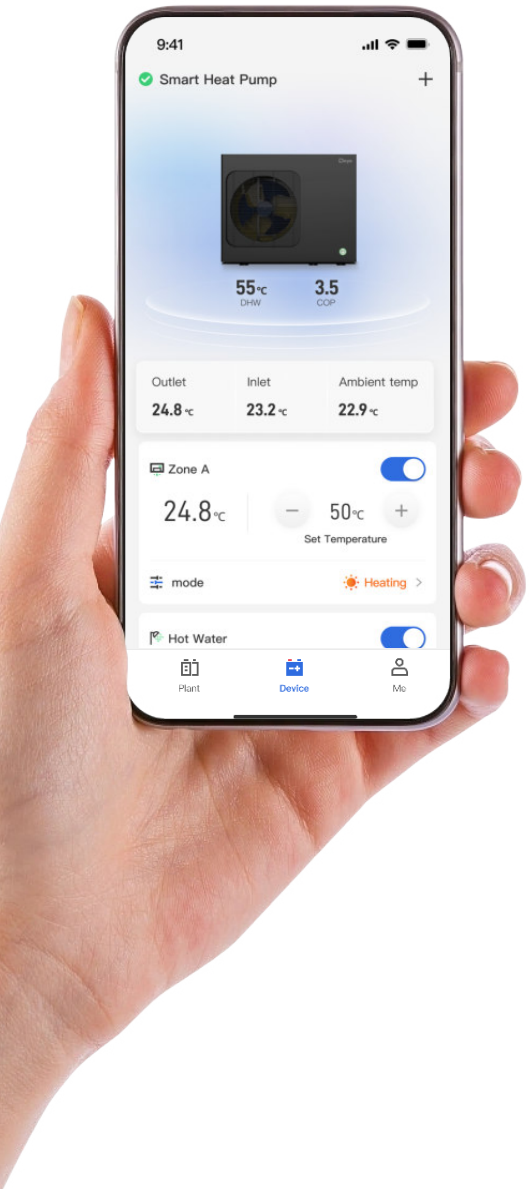
1. Photovoltaic
2. Radiator
2. Fan Coil
4. Underfloor Heating
5. Deye Central Controller
6. Buffer tank, Dual Coil
7. Hydraulic Module
8. Heat pump
9. Battery Storage
10. Pool Heat Pump
11. Charging Station

Smart Heating.
Smart Control.

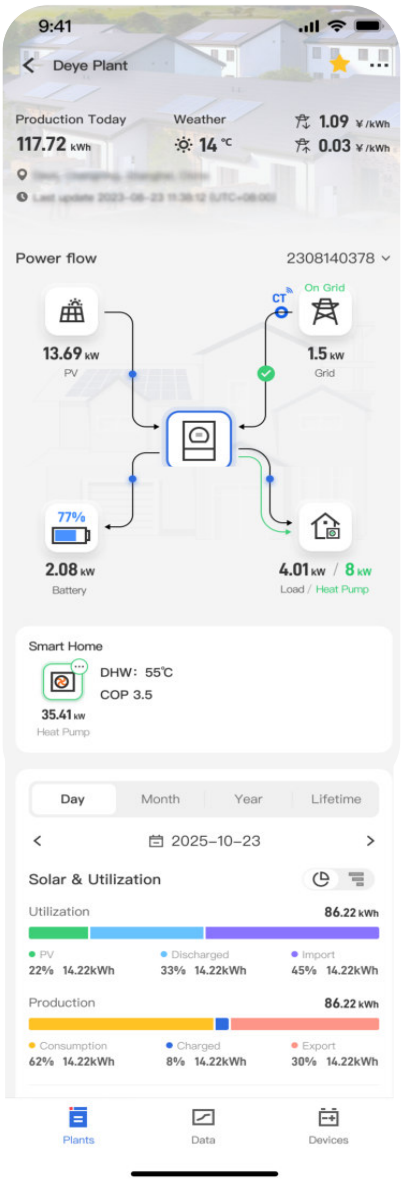
With the DEYE Cloud Services App, you gain a unified view of your entire home's energy ecosystem.Monitor heating performance, fine-tune room temperature and hot-water settings, and automate daily heating and cooling routines with ease. Powered by intelligent energy scheduling, the system dynamically allocates power between PV, battery storage, and home loads—maximizing efficiency, lowering energy costs, and ensuring comfort around the clock.



Adjust room and hot water temperature settings



Intelligent Energy Scheduling



Heating power self-consumption analysis



Our Company

1
Innovation Center

4
Production Bases

80 Billion
Market capitalization



Ningbo Beilun Headquarters: 130 acres, 130,000 sqm, 12B output



Haiyan HVAC Factory: 1.8B investment, 200,000 sqm,



Shanghai Innovation Center: 200M investment, 7,000 sqm



Ningbo Beilun Inverter Facrory: 500M investment, 100,000 sqm



Ningbo Cixi ESS Factory: 218 acres, 180,000 sqm

solarac.sales@deye.com.cn www.deyesolar.com 86-0574 6397 1382

Zhejiang Deye Electrical Appliances Co., Ltd.No.889 Waitang Road, Haiyan, Jiaxing, Zhejiang, 314300 P.R.China