

Mono-crystalline Solar PV Modules

M182-72N
TOPCon

550W

ZJNAC-550M

TOPCon Mono-crystalline Monofacial Module

21.28%

Module efficiency

Electrical Specifications

Module Type		ZJNAC-550M	
STC: AM1.5 Temperature 25°C Irradiance 1000 W/m ²	Peak Power(Pmax)±3%	(W)	550
	Power Tolerance	(W)	0~+5
	Max.Power Voltage(Vmp)	(V)	42.13
	Max.Power Current(Imp)	(A)	13.06
	Open-circuit Voltage(Voc)±3%	(V)	50.10
NMOT: AM1.5 Temperature 20°C Wind speed 1m/s Irradiance 800 W/m ²	Short-circuit Current(Isc)+3%	(A)	13.9
	Peak Power(Pmax)±3%	(W)	426.4
	Max.Power Voltage(Vmp)	(V)	40.31
	Max.Power Current(Imp)	(A)	10.58
	Open-circuit Voltage(Voc)	(V)	47.88
	Short-circuit Current(Isc)	(A)	11.27
Operating Temperature		(°C)	-40~+85
Max. Series Fuse Rating		(A)	30
Max. System Voltage(DC)		(V)	1500 (IEC)

Mechanical Specifications

Solar Cells	N-Mono-182*91mm
Arrangement	Type-6*12*2
Front Glass	2.0mm tempered glass
Back Glass	2.0mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Cables	4.0mm ² photovoltaic cables
Connectors	MC4 compatible/IP68
Maximum Load Capacity	Snow-5400Pa/Wind-2400Pa
Safety Rate	Class II (IEC)
Fire Rate	Class C (TUV)

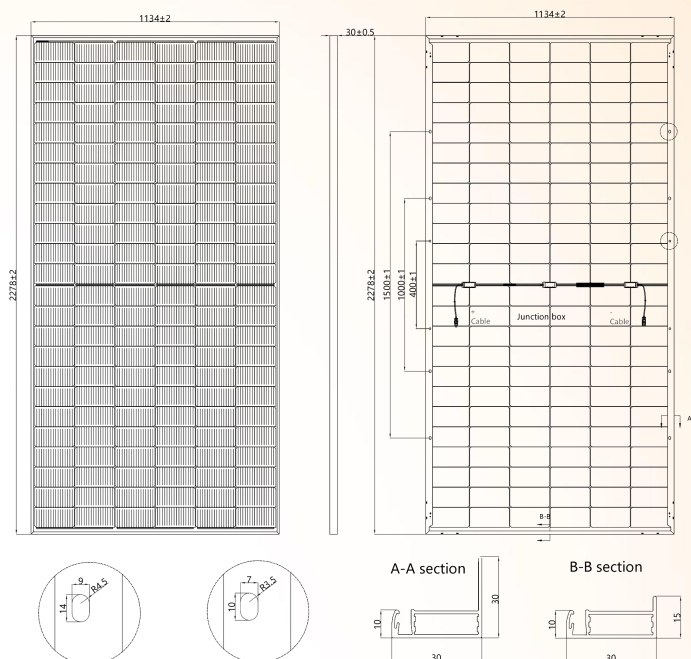
Packing Configuration

Package Weight & Size	1210Kg/pallet & 2310*1140*1260mm		
20'GP Container	2 pcs/carton	155 cartons/20'GP	310 pcs
40'HQ Container	37 pcs/pallet	20 pallets/40'HQ	740 pcs
13.5m Land Truck	37 pcs/pallet	22 pallets/truck	814 pcs

Dimensions of PV Module

Module Dimensions 2278(±2)*1134(±2)*30mm

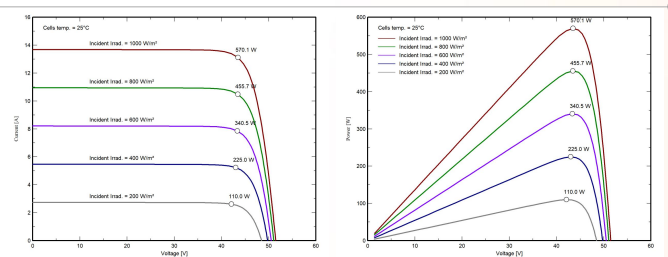
Module Weight 27.0 kg(±3%)



Temperature Characteristics

Temperature Coefficient (Pmax)	δ[%/°C]	-0.30
Temperature Coefficient (Voc)	β[%/°C]	-0.25
Temperature Coefficient (Isc)	α[%/°C]	+0.05
Nominal Operating Cell Temperature	NMOT	45°C±2°C

I-V & P-V Curves



Current-Voltage Characteristic

Power-Voltage Characteristic

Different Backside Power Gain

Power Gain		5%	15%	25%
Maximum Power(Pmax)	(W)	598.5	655.5	712.5
Max.Power Voltage(Vmp)	(V)	43.34	43.34	43.34
Max.Power Current(Imp)	(A)	13.81	15.12	16.44
Open-circuit Voltage(Voc)	(V)	51.48	51.48	51.48
Short-circuit Current(Isc)	(A)	14.72	16.12	17.52



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95 mm

105 mm



Energia

MODULO FOTOVOLTAICO



21,3%
Eficiência



2,58m²
Área

Tecnologia: SILÍCIO MONOCRISTALINO (mono-Si)
Fornecedor: ZHEJIANG G&F FOREIGN TRADING COMPANY LIMITED
Marca: ZJNAC
Modelo: ZJNAC-550M

Mais eficiente



Menos eficiente

Classe



Com base nos resultados do ciclo normalizado pelo Inmetro.



Segurança
Desempenho
N° de Registro
005 566/2025



Para instruções de instalação e recomendações de uso, leia o manual do aparelho.

16 mm

93 mm

	Energia	MODULO FOTOVOLTAICO		
	PROGRAMA BRASILEIRO DE ETIQUETAGEM	Tecnologia: SILICIO MONOCRISTALINO (mono-Si)		
		Fornecedor: ZHEJIANG G&F FOREIGN TRADING COMPANY LIMITED		
		Marca: ZJNAC		
		Modelo: ZJNAC-550M		Nº de Registro 005 566/2025