

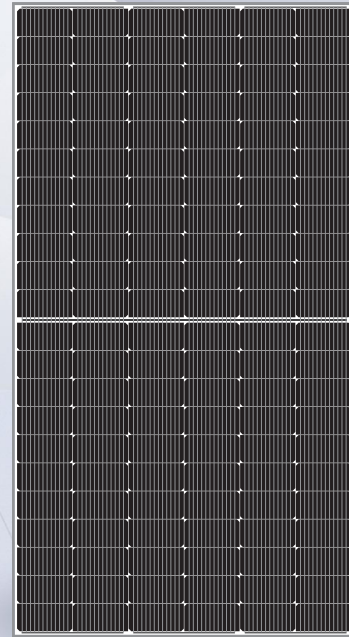
Mono Half Cut

Bifacial


650~670W


SN(650~670W)-132MB12 **12BB** >


Mono MBB per large size half cut module





KEY FEATURES


- 

210mm squared big sized cells
Adopt latest 210mm half cut cells technology, upto 23.1% cells efficiency and low degradation rate
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Bifacial design bring plant's extra income
Latest bifacial cells with high transparent back-sheet bring rear side generation, increase the rate of return on investment
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Twin panels parallel connection
12 cells strings array in twin parallel connection, lower panel temperature and hot spot, better shadow performance
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Low LCOE
Excellent industry size compatibility, suitable for ultra power plant, effectively reducing LCOE & transportation costs
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Stable generation capacity and power loss guarantee
0~+5W power output guarantee, 1st year power degradation $\leq 2\%$, 2nd year to 25th year power degradation $\leq 0.6\%$
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Excellent environmental adaptability and anti-aging ability
Excellent anti-PID, sand-dust, salt-mist & ammonia resistance ability; 2400Pa wind load & 5400Pa snow load approved

CERTIFICATION

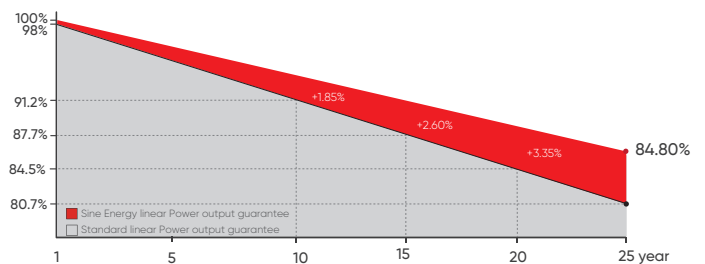
IEC61215 | IEC61730 | IEC 61701 | CE | INMETRO
ISO 9001
2015 Quality Management System
ISO 14001
2015 Environmental Management System
ISO45001
2018 Occupational Health and Safety Management System



INDUSTRY LEADING WARRANTY

12 years Guarantee on product material and workmanship

25 years Linear power output warranty



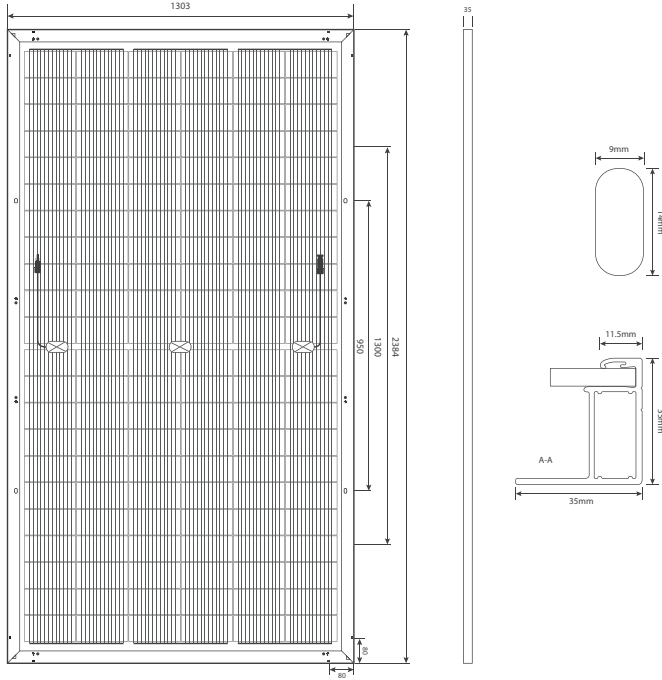
SN(650~670W)-132MB12

Weight
33.5kg

Number of Cells
132pcs(22×6)

Module Size
2384×1303×35mm

Packing
31pcs/pallet, 558pcs/40HQ



MECHANICAL SPECIFICATIONS

Solar Cell Type	210×105mm
Glass	3.2mm tempered, high transmission ART coating
Back Sheet	White KPF
Frame	Silver Anodized Aluminium Alloy
Junction Box	IP68
No. of Diodes	3pcs
Output Cable	4.0mm ² 400/400mm (custmized available)
Connector	MC4 Compatible (MC4 Original optional)
Wind/Snow Load	2400pa/5400pa

TEMPERATURE COEFFICIENT

Nominal Operating Cell Temp(NOCT)	44±2 C
Temperature Coefficient of ISC	0.060% C
Temperature Coefficient of VOC	-0.30% C
Temperature Coefficient of Pmax	-0.39% C
Operational Temperature	-40~85 C
Maximum System Voltage	1500V DC(IEC)
Maximum Series Fuse Rating	25A

STC — Electrical Characteristics

Test conditions	STC		NOCT		STC		NOCT		STC		NOCT	
Maximum Power -Pmax(W)	650W	491W	655W	495W	660W	499W	665W	503W	670W	506W		
Maximum Power Voltage-Vmp(V)	37.61V	34.86V	37.81V	35.05V	38.01V	35.24V	38.21V	35.42V	38.41V	35.61V		
Maximum Power Current-Imp(A)	17.28A	14.09A	17.32A	14.13A	17.36A	14.16A	17.40A	14.19A	17.44A	14.23A		
Open Circuit Voltage -Voc(V)	45.58V	42.30V	45.78V	42.48V	45.98V	42.67V	46.18V	42.86V	46.38V	43.04V		
Short Circuit Current-Isc(A)	18.16A	14.89A	18.21A	14.93A	18.26A	14.97A	18.31A	15.01A	18.36A	15.06A		
Module Efficiency(STC) -ηm(%)	20.92%		21.09%		21.25%		21.41%		21.57%			

TC:Irradiance:1000W/m², Module Temperature:25°C,Air Mass:1.5

NOCT:Irradiance:800W/m², Ambient Temperature:20°C,Air Mass:1.5,Wind Speed:1m/s

Bifacial Output-Rearside Power Gain

5%	Maximum Power(Pmax)	682.5W	687.75W	693W	698.25W	703.5W
	Module Efficiency STC(%)	21.97%	22.14%	22.31%	22.49%	22.65%
10%	Maximum Power(Pmax)	747.5W	753.25W	759W	764.75W	770.5W
	Module Efficiency STC(%)	24.06%	24.25%	24.43%	24.62%	24.80%
15%	Maximum Power(Pmax)	821.5W	818.75W	825W	831.25W	837.5W
	Module Efficiency STC(%)	26.15%	26.36%	26.55%	26.76%	26.96%

I-V Curve

