

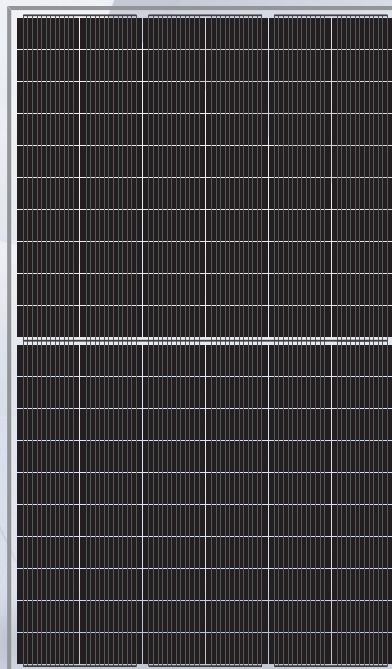
# Mono Half Cut

**Bifacial**

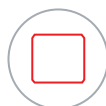
**590~610W**

SN(590~610W)-120MB12 **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



### 12bb cells with powerful optical conversion rate

More busbar with narrow transfer distance, increase current collecting ability, less cells resistance and working temperature



### Twin panels parallel connection

12 cells strings array in twin parallel connection, lower panel temperature and hot spot, better shadow performance



Low  
LCOE

### Super high power output Bifacial panel

Up to 605W power output, up to 20% rear side generation, increase the project extra generation



### 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  $\leq 0.6\%$



### Excellent harsh environment durability

Anti-PID material, sand-dust, salt-mist, and ammonia resistance, meet all kinds of different installing requirements

## 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



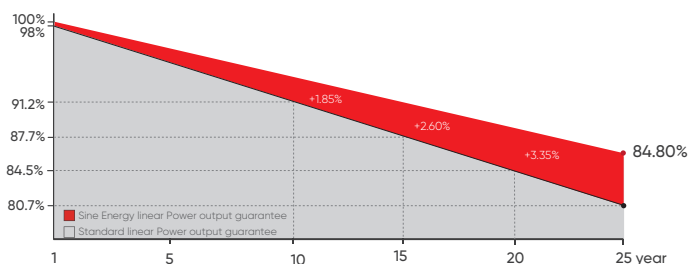
## INDUSTRY LEADING WARRANTY

**12 years**

Guarantee on product material and workmanship

**25 years**

Linear power output warranty



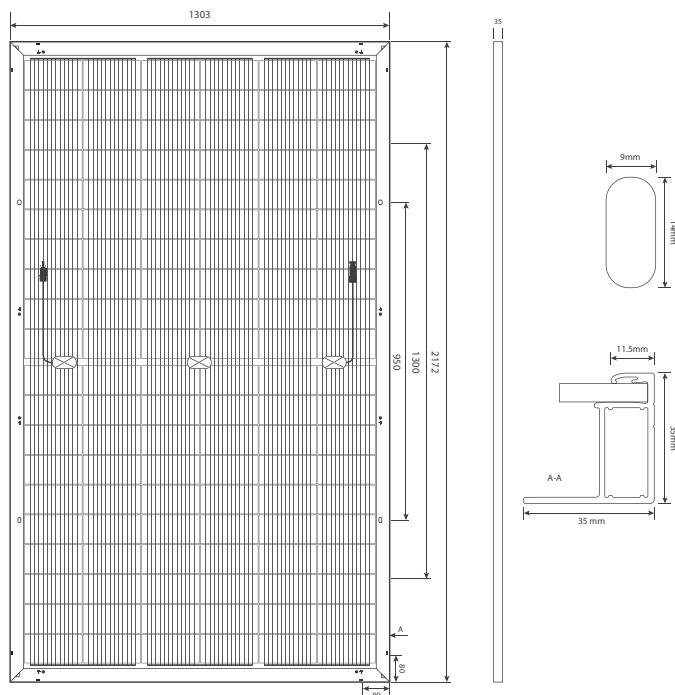
# SN(590~610W)-120MB12

Weight  
30.5kg

Number of Cells  
120pcs(20\*6)

Module Size  
12172\*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 <sup>2</sup> 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	STC	NOCT	STC	NOCT
Maximum Power -Pmax(W)	590W	447W	595W	451W	600W	454W	610W	503W	610W	416W
Maximum Power Voltage-Vmp(V)	34.00V	31.70V	34.20V	31.90V	34.40V	32.10V	34.80V	35.42V	38.41V	35.61V
Maximum Power Current-Imp(A)	17.35A	14.09A	17.40A	14.13A	17.44A	14.16A	17.53A	14.19A	17.44A	14.23A
Open Circuit Voltage -Voc(V)	41.10V	38.70V	41.30V	38.90V	41.50V	39.10V	41.90V	42.86V	46.38V	43.04V
Short Circuit Current-Isc(A)	19.42A	14.85A	18.47A	14.88A	18.52A	14.92A	18.62A	15.01A	18.36A	15.06A
Module Efficiency(STC) -ηm(%)	20.85%		21.02%		21.20%		21.38%		21.55%	

TC:Irradiance:1000W/m<sup>2</sup>, Module Temperature:25°C,Air Mass:1.5

NOCT:Irradiance:800W/m<sup>2</sup>, Ambient Temperature:20°C,Air Mass:1.5,Wind Speed:1m/s

## Bifacial Output-Rearside Power Gain

		5%		10%		15%	
		Maximum Power(Pmax)	Module Efficiency STC(%)	Maximum Power(Pmax)	Module Efficiency STC(%)	Maximum Power(Pmax)	Module Efficiency STC(%)
5%	Maximum Power(Pmax)	682.5W	21.97%	687.75W	22.14%	693W	22.31%
	Module Efficiency STC(%)	21.97%	22.14%	22.31%	22.49%	22.65%	22.83%
10%	Maximum Power(Pmax)	747.5W	24.06%	753.25W	24.25%	759W	24.43%
	Module Efficiency STC(%)	24.06%	24.25%	24.43%	24.62%	24.80%	25.00%
15%	Maximum Power(Pmax)	821.5W	26.15%	818.75W	26.36%	825W	26.55%
	Module Efficiency STC(%)	26.15%	26.36%	26.55%	26.76%	26.96%	27.17%

## I-V Curve

