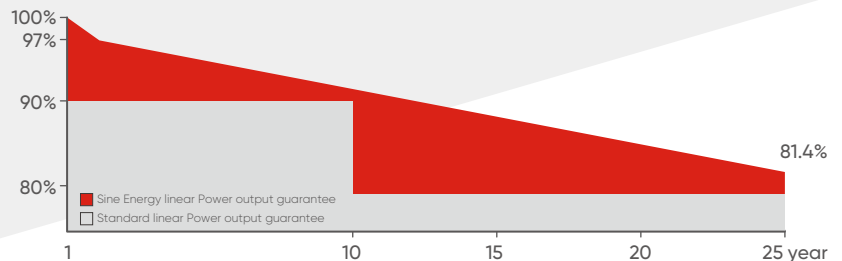


Mono Half Cut

Bifacial 590~610W

SN(590~610)-120MB12



12 Years

Guarantee on product material and workmanship

25 Years

Linear power output warranty

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



CE PID

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.

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 2%, 2nd year to 25th year power degradation 0.6%.

Excellent harsh environment durability

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

SN(590~610)-120MB12

Weight
30.5kg

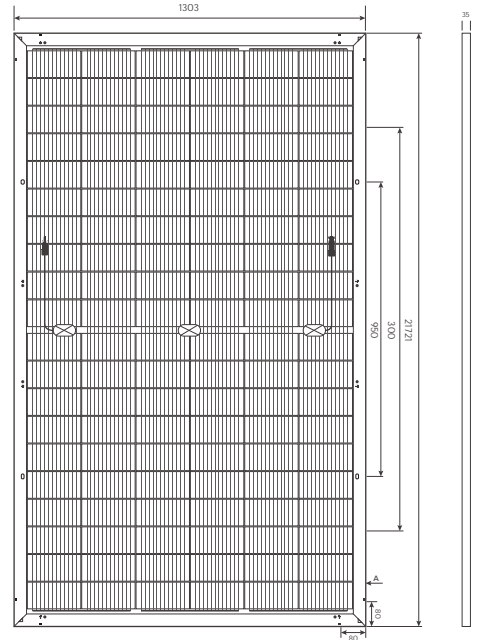
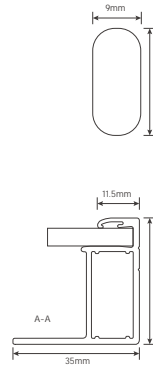
Number of Cells
120pcs(20×6)

Module Size
2172×1303×35mm

Packing
31pcs/pallet, 558pcs/40HQ

MECHANICAL SPECIFICATIONS

Solar Cell Type	210×105mm
Glass	3.2mm tempered, high transmission ART coating
Back Sheet	Transparent backsheet
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
Temperature Coefficient of ISC	0.060%
Temperature Coefficient of VOC	-0.30%
Temperature Coefficient of Pmax	-0.39%
Operational Temperature	-40~85
Maximum System Voltage	1500V DC(IEC)
Maximum Series Fuse Rating	20A

STC -- Electrical Characteristics

Module Type: SN(590~610)-120MB12

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) - m(%)	20.85%		21.02%		21.20%		21.38%		21.55%	

STC: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

Angle	Parameter	Front Side	Bifacial	Total
5%	Maximum Power(Pmax)	682.5W	687.75W	693W
	Module Efficiency STC(%)	21.97%	22.14%	22.31%
15%	Maximum Power(Pmax)	747.5W	753.25W	759W
	Module Efficiency STC(%)	24.06%	24.25%	24.43%
25%	Maximum Power(Pmax)	821.5W	818.75W	825W
	Module Efficiency STC(%)	26.15%	26.36%	26.55%

I-V Curve SN(590~610)-120MB12

