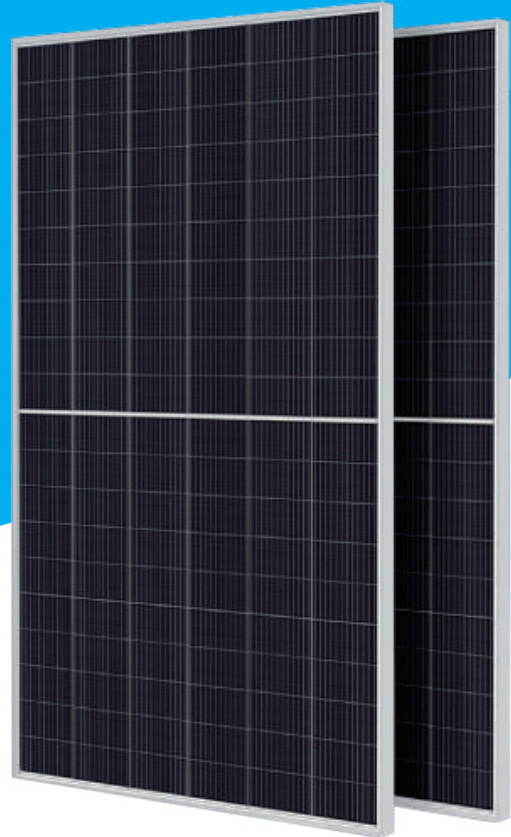




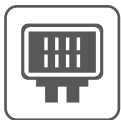
# PNG-120M(210)

## 580-615 Watt

MONO CRYSTALLINE PERC



### Key Features



#### IP68 junction box, connector

IP68 junction box and connector have a high degree of waterproof, effectively resist the harsh environment;



#### PID Resistant

Excellent PID resistance at 96 hours (85°C/85%) test, and also can be improved to meet higher standards for the particularly harsh environment;



#### MBB half-cut cell technology

New circuit design, lower internal current, lower Rs loss



#### Significantly lower the risk of hot spot

Special circuit design with much lower hot spot temperature

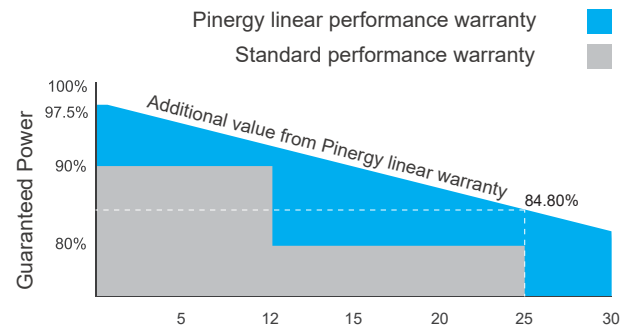


#### Lower LCOE

2% more power generation, lower LCOE

### Linear Performance Warranty

12 Years Product Warranty · 30 Years Linear Power Warranty



### Certifications

- IEC 61215, IEC 61730, CE, CQC
- ISO9001: 2015: Quality management system
- ISO14001: 2015: Environmental management system
- ISO45001: 2018: Occupational health and safety management system



## Electrical Specifications

Module Type	PNG120M-580		PNG120M-585		PNG120M-590		PNG120M-595		PNG120M-600		PNG120M-605		PNG120M-610		PNG120M-615	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Max. Power (Pmax/W)	580	438	585	443	590	446	595	450	600	454	605	458	610	462	615	465
Voltage at Max. Power (Vmp/V)	33.6	31.3	33.8	31.5	34.0	31.7	34.2	31.9	34.4	32.1	34.6	32.3	34.8	32.4	35.0	32.6
Current at Max. Power (Imp/A)	17.28	14.02	17.33	14.05	17.37	14.09	17.41	14.12	17.46	14.16	17.50	14.19	17.55	14.23	17.59	14.27
Open circuit voltage (Voc/V)	40.7	38.3	40.9	38.5	41.1	38.7	41.3	38.9	41.5	39.1	41.7	39.2	41.9	39.4	42.1	39.6
Short circuit current (Isc/A)	18.34	14.79	18.40	14.83	18.45	14.87	18.50	14.92	18.55	14.96	18.61	15.00	18.66	15.04	18.71	15.09
Module efficiency (%)	20.50%		20.70%		20.80%		21.00%		21.20%		21.40%		21.60%		21.70%	
Power Tolerance (W)	0~+5															

Standard Test Condition (STC): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM1.5

Nominal Module Operating Temperature (NOCT): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s

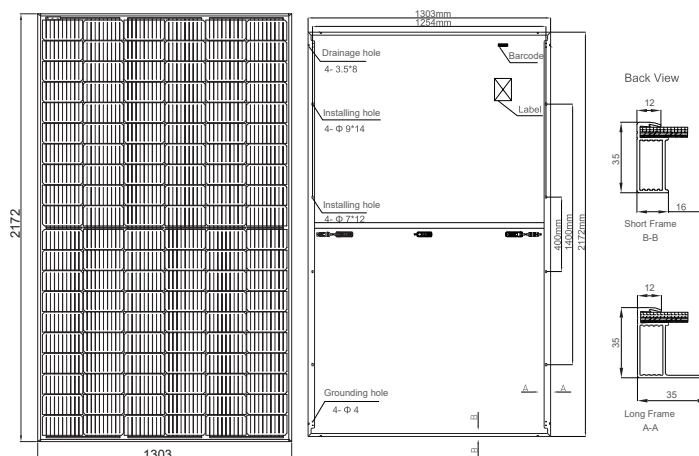
## Mechanical Specifications

Cell Type	MBB MONO 210×105mm
No. of Cells	120 (6×20)
Dimension	2172x1303x35mm
Weight	30.9kg
Glass	3.2mm, Low Iron Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 diodes
Output Cables	4mm <sup>2</sup> , Length 300mm or customized
Connector type	MC4 compatible

## Packaging Configurations

Per Pallet	31 pcs
Per 40' HQ Container	527 pcs

## Engineering Drawings



## Temperature Characteristics

NOCT Temperature	44°C ±2°C
Temperature Coefficient (Pmax)	-0.36%/°C
Temperature Coefficient (Voc)	-0.28%/°C
Temperature Coefficient (Isc)	0.05%/°C

## Maximum Ratings

Maximum system voltage (IEC)	1500V DC
Snow / Wind	5400Pa / 2400Pa
Operating Temperature	-40°C ~ +85°C
Maximum series fuse rating	30A

## Curve & Temperature Dependence

