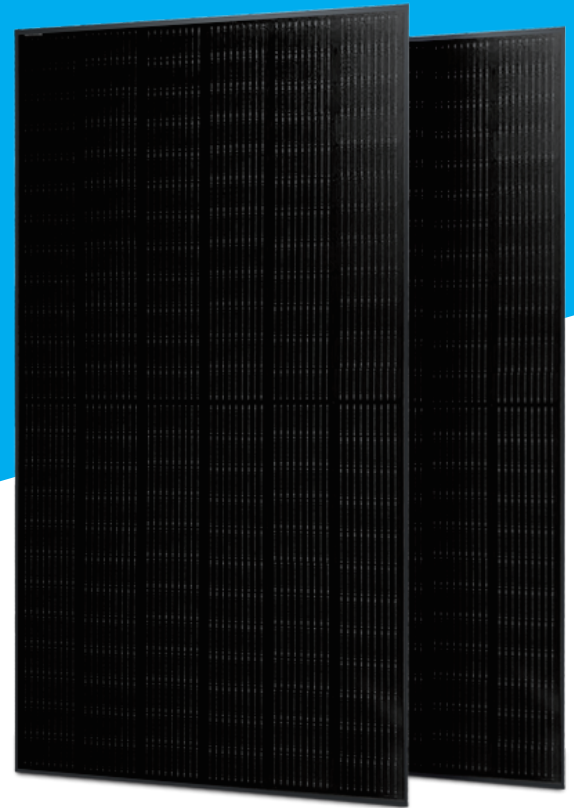




PNGMH72-DGB6(166) 435-455 Watt (FB)

HALF-CELL MBB MONO PERC



Key Features



Multi Busbar Solar Cell

Stronger current collection ability, Special circuit design with much lower hot spot temperature;



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;



Anti-Crack

Excellent anti-microcracking performance with more balanced interior stress;



Module efficiency up to 20.93%

Half cell structure brings low resistance characteristic, higher lifetime generating capacity, simultaneously lower annual power attenuation;



Low-Light Performance

Excellent power generation performance under Low-Light condition due to multi busbar; better shading response benefit from half cell module;

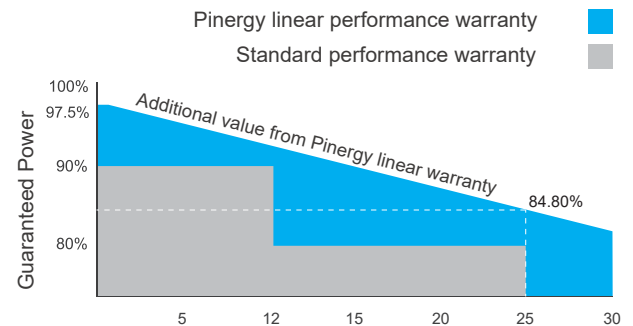


Strength and Durability

Certified for 5400Pa snow and 2400Pa Wind loads test;

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: PNGMH72-DGB6-xxx , (xxx=Pmax)

Module Type	435		440		445		450		455	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated output (Pmp/Wp)	435	326	440	330	445	334	450	338	455	341
Rated voltage (Vmp/V)	40.7	37.8	40.9	38.0	41.1	38.2	41.3	38.4	41.5	38.6
Rated current (Imp/A)	10.69	8.59	10.76	8.66	10.83	8.73	10.90	8.79	10.97	8.83
Open circuit voltage (Voc/V)	49.6	45.4	49.8	45.6	50.0	45.8	50.2	46.0	50.4	46.2
Short circuit current (Isc/A)	11.23	9.24	11.29	9.31	11.33	9.38	11.41	9.44	11.48	9.48
Module efficiency (%)	20.02%		20.24%		20.47%		20.70%		20.93%	
Power Tolerance (W)	0~+5									

Standard Test Condition (STC): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5

Nominal Module Operating Temperature (NOCT): Irradiance 800W/m², Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s

Bifacial Output-rearside Power Gain

5%	Maximum power (Pmax)	457	462	467	473	478
	Module Efficiency STC (%)	21.01%	21.26%	21.50%	21.74%	21.98%
15%	Maximum power (Pmax)	500	506	512	518	523
	Module Efficiency STC (%)	23.02%	23.28%	23.54%	23.81%	24.07%
25%	Maximum power (Pmax)	544	550	556	563	569
	Module Efficiency STC (%)	25.02%	25.30%	25.59%	25.88%	26.17%

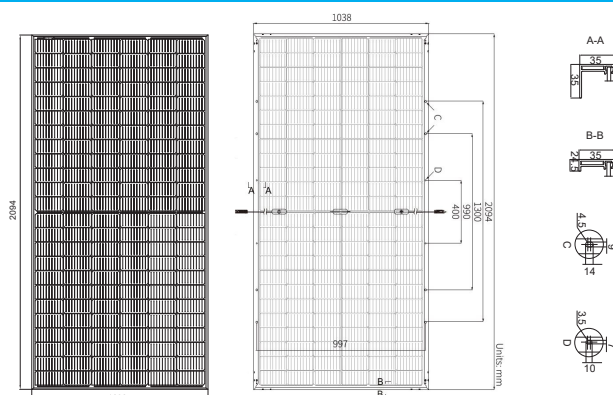
Mechanical Specifications

Cell Type	9BB BIFACIAL MONO 166×83mm
No. of Cells	144 (6×24)
Dimension	2094x1038x35mm
Weight	28.5kg
Glass	Dual glass, 2.0mm coated tempered glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 diodes
Output Cables	4mm ² , Length 300mm or customized
Connector type	MC4 compatible

Packaging Configurations

Per Pallet	31 pcs
Per 40' HQ Container	682 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 (IEC)
Snow / Wind	5400Pa / 2400Pa
Operating Temperature	-40°C ~ +85°C
Maximum series fuse rating	20A

Curve & Temperature Dependence

