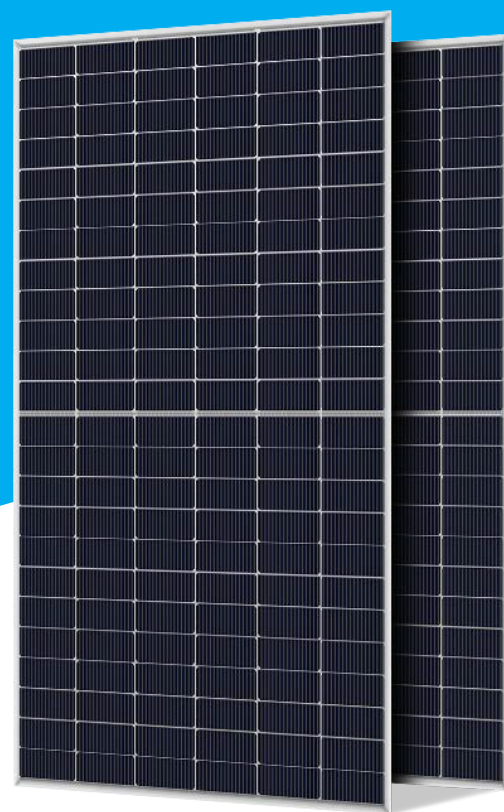




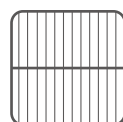
PNGNH72-DGB8(182)

580-600 Watt

N-type Mono TOPCon Bifacial



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 23.22%

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;

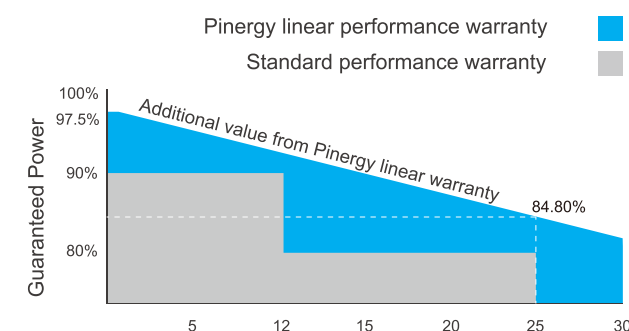


Strength and Durability

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: PNGNH72-DGB8-xxx, (xxx=Pmax)

Module Type	580		585		590		595		600	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Max. Power (Pmax/W)	580	440	585	444	590	448	595	452	600	456
Voltage at Max. Power (Vmp/V)	42.43	40.38	42.58	40.53	42.73	40.67	42.87	40.81	43.02	40.95
Current at Max. Power (Imp/A)	13.67	10.9	13.74	10.96	13.81	11.02	13.88	11.08	13.95	11.14
Open circuit voltage (Voc/V)	50.97	48.86	51.12	49.01	51.27	49.16	51.42	49.31	51.57	49.46
Short circuit current (Isc/A)	14.41	11.62	14.48	11.68	14.55	11.74	14.62	11.80	14.69	11.87
Module efficiency (%)	22.44%		22.64%		22.83%		23.02%		23.22%	
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)	609.00	614.25	619.50	624.75	630.00
	Module Efficiency STC (%)	23.56%	23.77%	23.97%	24.17%	24.38%
15%	Maximum power (Pmax)	667.00	672.75	678.50	684.25	690.00
	Module Efficiency STC (%)	25.81%	26.03%	26.25%	26.48%	26.70%
25%	Maximum power (Pmax)	725.00	731.25	737.50	743.75	750.00
	Module Efficiency STC (%)	28.05%	28.29%	28.54%	28.78%	29.03%

Mechanical Specifications

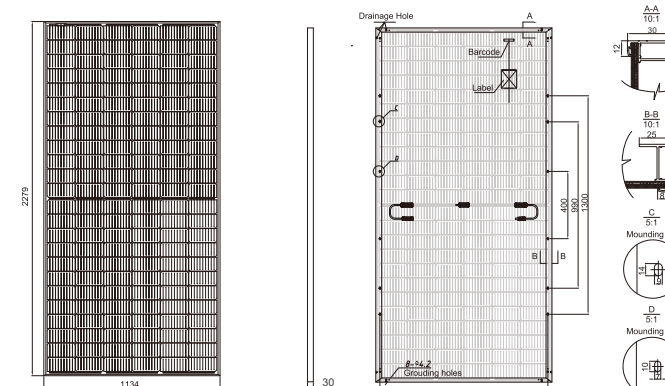
Cell Type	N-type BIFACIAL MONO 182×91mm
No. of Cells	144 (6×24)
Dimension	2279×1134×30mm
Weight	32.5kg
Glass	Dual glass, 2.0mm coated tempered glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 diodes
Output Cables	4mm², Length 300mm or customized
Connector type	MC4 compatible

Packaging Configurations

Per Pallet 36 pcs

Per 40' HQ Container 720 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	25A

Curve & Temperature Dependence

