Solar

PNGNH72-DGB8(182)

570-595 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℃/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 23.02%

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

Low-Light Performance

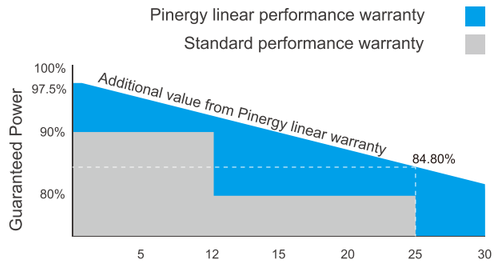
Excellent power generation performance under Low-Light condition due to multi busbar; better shading response benefit from half cell module;

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

Solar

Electrical Specifications

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

Module Type	570		575		580		585		590		595	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Max. Power (Pmax/W)	570	432	575	436	580	440	585	444	590	448	595	452
Voltage at Max. Power (Vmp/V)	42.13	40.08	42.28	40.23	42.43	40.38	42.58	40.53	42.73	40.67	42.87	40.81
Current at Max. Power (Imp/A)	13.53	10.78	13.6	10.84	13.67	10.9	13.74	10.96	13.81	11.02	13.88	11.08
Open circuit voltage (Voc/V)	50.67	48.56	50.82	48.71	50.97	48.86	51.12	49.01	51.27	49.16	51.42	49.31
Short circuit current (Isc/A)	14.28	11.50	14.34	11.56	14.41	11.62	14.48	11.68	14.55	11.74	14.62	11.80
Module efficiency (%)	22.06%		22.25%		22.44%		22.64%		22.83%		23.02%	
Power Tolerance (W)	0~+5											

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

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

Bifacial Output-rearside Power Gain

5%	Maximum power (Pmax)	598.50	603.75	609.00	614.25	619.50	624.75
	Module Efficiency STC (%)	23.16%	23.36%	23.56%	23.77%	23.97%	24.17%
15%	Maximum power (Pmax)	655.50	661.25	667.00	672.75	678.50	684.25
	Module Efficiency STC (%)	25.36%	25.59%	25.81%	26.03%	26.25%	26.48%
25%	Maximum power (Pmax)	712.50	718.75	725.00	731.25	737.50	743.75
	Module Efficiency STC (%)	27.57%	27.81%	28.05%	28.29%	28.54%	28.78%

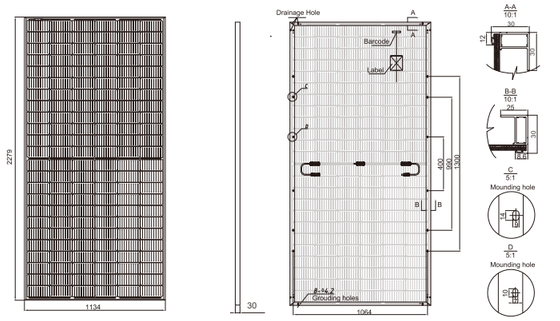
Mechanical Specifications

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℃ ±2℃
Temperature Coefficient (Pmax)	-0.36%/℃
Temperature Coefficient (Voc)	-0.28%/℃
Temperature Coefficient (Isc)	0.05%/℃

Maximum Ratings

Maximum system voltage (IEC)	1500V DC
Snow / Wind	5400Pa / 2400Pa
Operating Temperature	-40℃ ~ +85℃
Maximum series fuse rating	25A

Curve & Temperature Dependence