PNG Solar

PNGNH78-DGB8
610-635 Watt

N-type Mono TOPCon

Key Features

Multi Busbar Solar Cell

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

PID Resistant

Anti PID

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 22.72%

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

Low-Light Performance

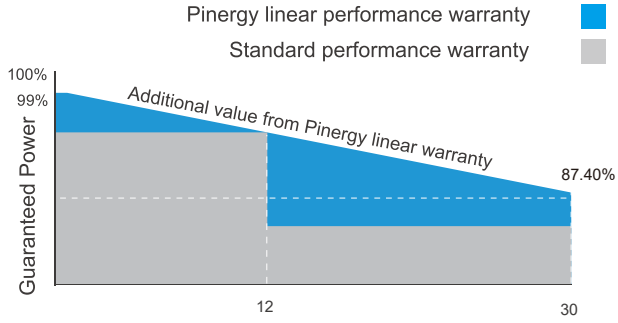
Excellent power generation performance under Low-Light condition due to multi busbar; better shading response benefit from half cell module;

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

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Electrical Specifications

Module Type: PNGNH78-DGB8-xxx,(xxx=Pmax)

Module Type	610		615		620		625		630		635	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Max. Power (Pmax/W)	610	460	615	464	620	467	625	471	630	475	635	479
Voltage at Max. Power (Vmp/V)	45.56	42.22	45.66	42.33	45.76	42.44	45.86	42.55	45.96	42.66	46.06	42.77
Current at Max. Power (Imp/A)	13.39	10.89	13.47	10.95	13.55	11.01	13.63	11.07	13.71	11.13	13.79	11.19
Open circuit voltage (Voc/V)	55.27	52.45	55.42	52.6	55.57	52.74	55.72	52.88	55.87	53.02	56.02	53.16
Short circuit current (Isc/A)	14.04	11.38	14.11	11.44	14.18	11.50	14.25	11.56	14.32	11.62	14.39	11.68
Module efficiency (%)	21.82%		22.00%		22.18%		22.36%		22.54%		22.72%	
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)	640.50	645.75	651.00	656.25	661.50	666.75
	Module Efficiency STC (%)	22.91%	23.10%	23.29%	23.48%	23.66%	23.85%
15%	Maximum power (Pmax)	701.50	707.25	713.00	718.75	724.50	730.25
	Module Efficiency STC (%)	25.10%	25.30%	25.51%	25.71%	25.92%	26.12%
25%	Maximum power (Pmax)	762.50	768.75	775.00	781.25	787.50	793.75
	Module Efficiency STC (%)	27.28%	27.50%	27.73%	27.95%	28.17%	28.40%

Mechanical Specifications

Cell Type	N-Type MONO
No. of Cells	156 (78x2)
Dimension	2465x1134x30 mm
Weight	34.0kg
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

Temperature Characteristics

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

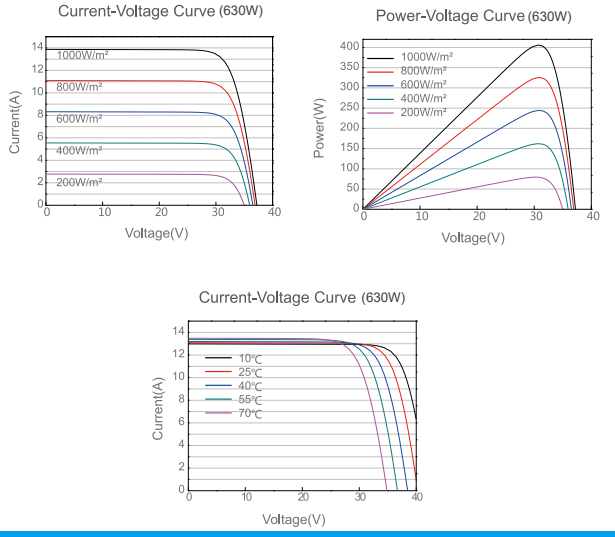
Maximum Ratings

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

Packaging Configurations

Per Pallet	36 pcs
Per 40' HQ Container	576 pcs

Curve & Temperature Dependence



Engineering Drawings