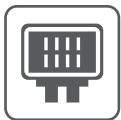


PNGNH78-DGB8(182)

610-635 Watt

N-Type Mono Bifacial TOPCon

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

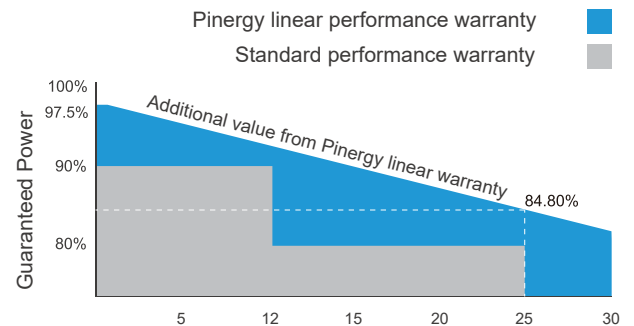


Lower LCOE

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

Module Type	610		615		620		625		630		635	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Max. Power (Pmax/W)	610	463	615	467	620	471	625	476	630	480	635	484
Voltage at Max. Power (Vmp/V)	45.5	43.4	45.6	43.5	45.7	43.6	45.8	43.7	45.9	43.8	46.0	44.0
Current at Max. Power (Imp/A)	13.39	10.68	13.47	10.74	13.55	10.80	13.64	10.86	13.72	10.95	13.81	11.01
Open circuit voltage (Voc/V)	55.2	52.3	55.3	52.5	55.4	52.7	55.5	52.9	55.6	53.1	55.7	53.3
Short circuit current (Isc/A)	14.12	11.38	14.19	11.44	14.26	11.50	14.33	11.56	14.40	11.62	14.47	11.68
Module efficiency (%)	21.80%		21.98%		22.16%		22.34%		22.52%		22.70%	
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

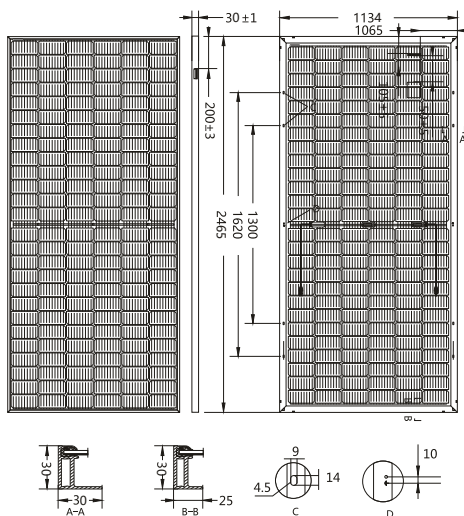
Mechanical Specifications

Cell Type	N-Type Mono Bifacial TOPCon
No. of Cells	156 (6×26)
Dimension	2465x1134x30mm
Weight	34kg
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	36 pcs
Per 40' HQ Container	576 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

