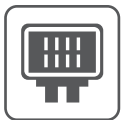


PNGMH72-DGB8(182)

530-550 Watt

HALF-CELL MONO PERC BIFACIAL

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

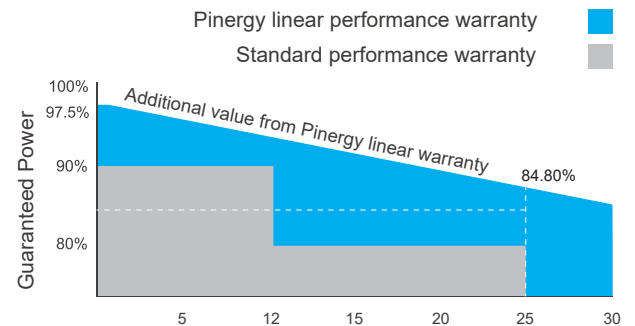


Lower LCOE

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 > PNGMH72-DGB8-xxx,(xxx=Pmax)

Module Type	530		535		540		545		550	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Max. Power (Pmax/W)	530	398	535	398	540	404	545	407	550	410
Voltage at Max. Power (Vmp/V)	41.3	38.9	41.3	38.9	41.7	39.2	41.9	39.4	42.1	39.6
Current at Max. Power (Imp/A)	12.82	10.14	12.82	10.22	12.96	10.30	13.03	10.35	13.09	10.41
Open circuit voltage (Voc/V)	49.0	46.3	49.2	46.5	49.5	46.8	49.7	47.0	49.9	47.2
Short circuit current (Isc/A)	13.65	10.83	13.71	10.90	13.84	10.97	13.91	11.01	13.98	11.05
Module efficiency (%)	20.51%		20.70%		20.89%		21.09%		21.28%	
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)	551.25	556.5	561.75	567	572.25
	Module Efficiency STC (%)	21.57%	21.77%	21.98%	22.18%	22.39%
15%	Maximum power (Pmax)	603.75	609.5	615.25	621	626.75
	Module Efficiency STC (%)	23.62%	23.85%	24.07%	24.30%	24.52%
25%	Maximum power (Pmax)	656.25	662.5	668.75	675	681.25
	Module Efficiency STC (%)	25.67%	25.92%	26.16%	26.41%	26.65%

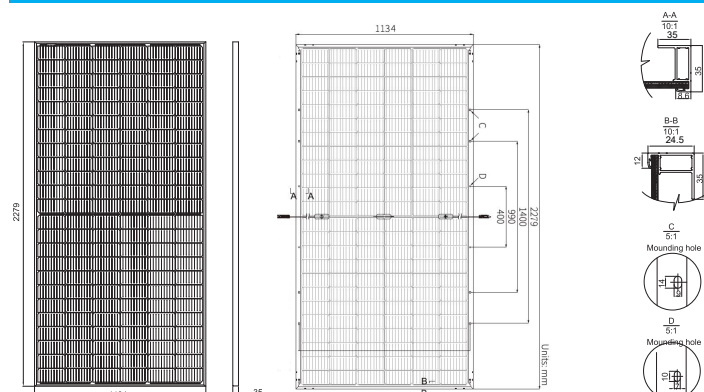
Mechanical Specifications

Cell Type	10BB BIFACIAL MONO 182×91mm
No. of Cells	144 (6×24)
Dimension	2279x1134x35mm
Weight	32.3kg
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	620 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

