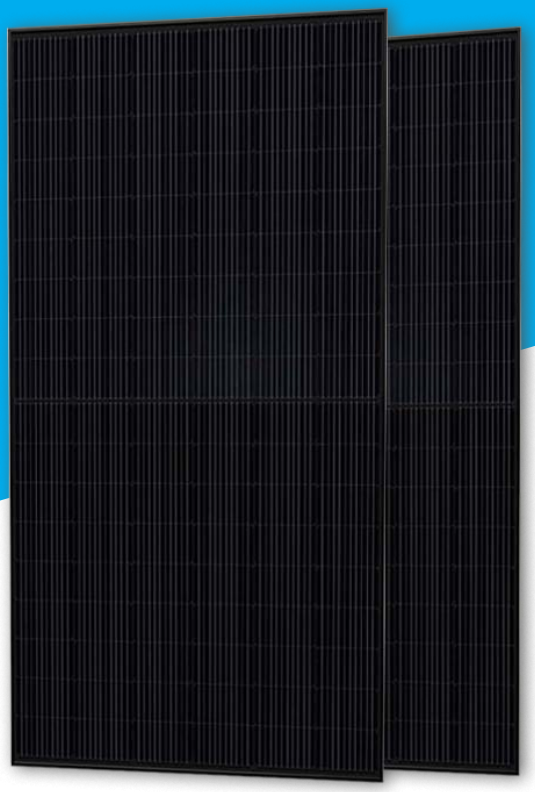
PNG Solar

PNGMH54-B8(182)

395-420 Watt (FB)

HALF-CELL MBB MONO PERC



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 21.25%

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

Low-Light Performance

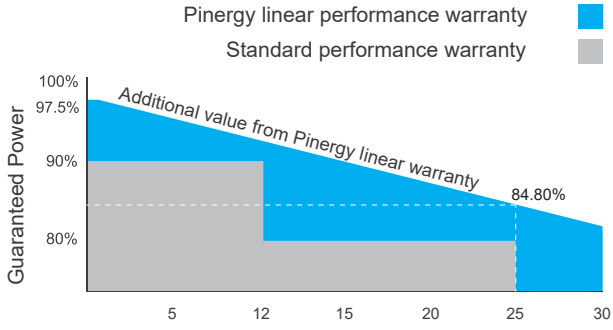
Excellent power generation performance under Low-Light condition due to multi busbar; better shading response benefit from half cell module;

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: PNGMH54-B8-xxx , (xxx=Pmax)

Module Type	395		400		405		410		415		420	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Max. Power (Pmax/W)	395	297	400	301	405	305	410	309	415	313	420	317
Voltage at Max. Power (Vmp/V)	30.9	29.0	31.1	29.2	31.2	29.4	31.4	29.6	31.6	29.8	31.8	30.0
Current at Max. Power (Imp/A)	12.81	10.23	12.88	10.31	12.97	10.38	13.05	10.45	13.14	10.52	13.19	10.59
Open circuit voltage (Voc/V)	37.0	34.8	37.1	34.9	37.2	35.1	37.4	35.3	37.6	35.5	37.8	35.7
Short circuit current (Isc/A)	13.68	10.93	13.77	11.01	13.86	11.10	13.95	11.17	13.95	11.17	14.13	11.34
Module efficiency (%)	20.25%		20.50%		20.76%		21.01%		21.25%		21.53%	
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

Mechanical Specifications

Cell Type	MBB MONO 182×91mm
No. of Cells	108 (6×18)
Dimension	1722x1134x30mm
Weight	21.5kg
Glass	3.2mm, Low Iron 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%/℃

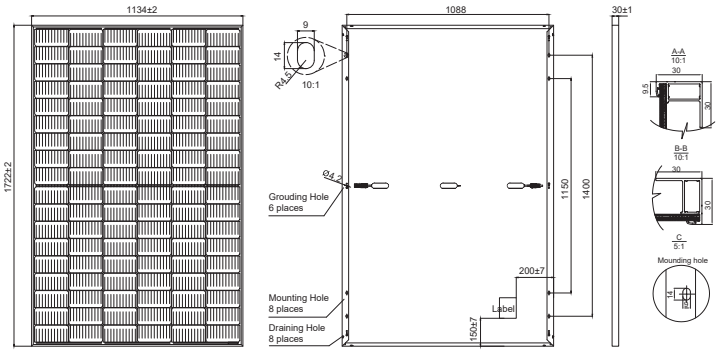
Maximum Ratings

Maximum system voltage (IEC)	1500V DC
Snow / Wind	5400Pa / 2400Pa
Operating Temperature	-40℃ ~ +85℃
Maximum series fuse rating	20A

Packaging Configurations

Per Pallet	36 pcs
Per 40' HQ Container	936 pcs

Engineering Drawings



Curve & Temperature Dependence