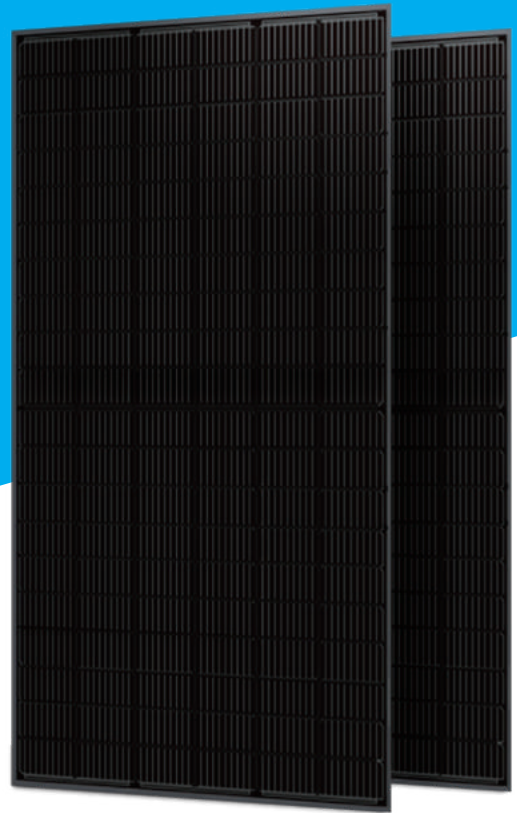




## PNGMH60-B8(182)

### 430-455 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

Excellent PID resistance at 96 hours (85°C/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 21.01%

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;

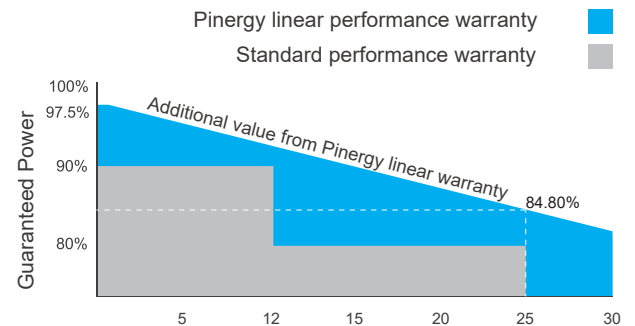


##### Strength and Durability

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



## Electrical Specifications

Module Type: PNGMH60-B8-xxx , (xxx=Pmax)

Module Type	430		435		440		445		450		455	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Max. Power (Pmax/W)	435	322	435	326	440	330	445	334	450	338	450	342
Voltage at Max. Power (Vmp/V)	33.61	31.04	33.76	31.19	33.91	31.34	34.06	31.49	34.21	31.64	34.36	31.79
Current at Max. Power (Imp/A)	12.80	10.38	12.89	10.46	12.98	10.54	13.07	10.62	13.16	10.69	13.25	10.77
Open circuit voltage (Voc/V)	40.65	37.46	40.8	37.61	40.95	37.76	41.10	37.91	41.25	38.06	41.40	38.21
Short circuit current (Isc/A)	13.26	11.04	13.34	11.11	13.41	11.19	13.52	11.28	13.62	11.36	13.72	11.45
Module efficiency (%)	19.85%		20.08%		20.31%		20.55%		20.78%		21.01%	
Power Tolerance (W)	0~+5											

Standard Test Condition (STC): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM1.5

Nominal Module Operating Temperature (NOCT): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s

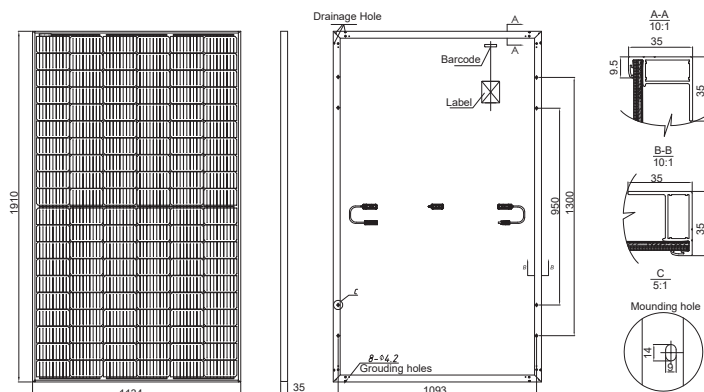
## Mechanical Specifications

Cell Type	10BB MONO 182×91mm
No. of Cells	120 (6×20)
Dimension	1910x1134x35mm
Weight	24kg
Glass	3.2mm, Low Iron Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 diodes
Output Cables	4mm <sup>2</sup> , Length 300mm or customized
Connector type	MC4 compatible

## Packaging Configurations

Per Pallet	31 pcs
Per 40' HQ Container	744 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	20A

## Curve & Temperature Dependence

