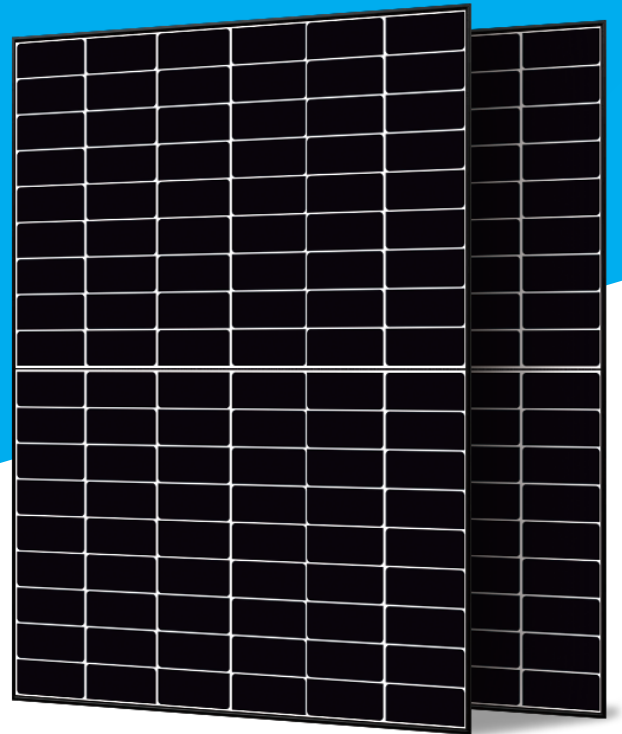




## PNGBH54-B8(182)

### 415-435Watt (Black Frame)

HPBC



#### Key Features



##### No 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 22.3%

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;

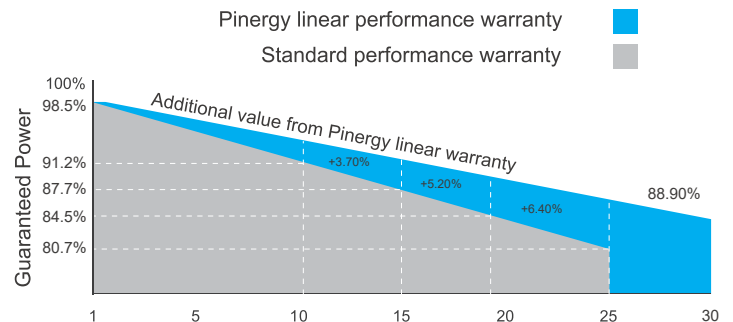


##### Strength and Durability

Certified for 5400Pa snow and 2400Pa Wind loads test;

#### Linear Performance Warranty

15 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: PNGBH54-B8-xxx , (xxx=Pmax)

Module Type	415		420		425		430		435	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Max. Power (Pmax/W)	415	310	420	314	425	318	430	321	435	325
Voltage at Max. Power (Vmp/V)	32.24	29.42	32.44	29.60	32.64	29.78	32.84	29.97	33.04	30.15
Current at Max. Power (Imp/A)	12.88	10.54	12.95	10.60	13.03	10.67	13.10	10.72	13.17	10.78
Open circuit voltage (Voc/V)	38.53	36.18	38.73	36.36	38.93	36.55	39.13	36.74	39.33	36.93
Short circuit current (Isc/A)	13.92	11.24	14.00	11.31	14.07	11.36	14.15	11.43	14.22	11.49
Module efficiency (%)	21.3%		21.5%		21.8%		22.0%		22.3%	
Power Tolerance (W)	0~+3									

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

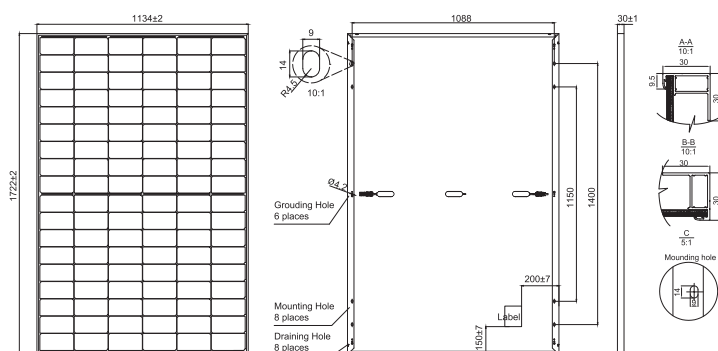
## Mechanical Specifications

Cell Type	182×91mm
No. of Cells	108 (6×18)
Dimension	1722x1134x30mm
Weight	20.8kg
Glass	Single glass,3.2mm coated tempered glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 diodes
Output Cables	4mm <sup>2</sup> , Length ±1200mm or customized
Connector type	MC4 compatible

## Packaging Configurations

Per Pallet	36 pcs
Per 40' HQ Container	936 pcs

## Engineering Drawings



## Temperature Characteristics

NOCT Temperature	45°C ±2°C
Temperature Coefficient (Pmax)	-0.29%/°C
Temperature Coefficient (Voc)	-0.23%/°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

