



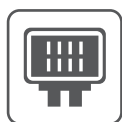
PNGNH66-DGBR

600-630 Watt

N-type Mono Topcon Bifacial



Key Features



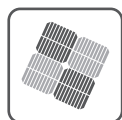
IP68 waterproof junction box and connector

IP68 waterproof junction box and connector have excellent waterproof performance and can effectively resist harsh environments;



Anti-PID

Excellent anti-PID performance in 96 hours (85°C/85%) test, and it can also be improved to meet higher standards and is suitable for particularly harsh environments;



Unspecified MBB half cell technology

New circuit design, lower internal current, lower power loss;



Significantly reduce the risk of hot spots

Special circuit design brings lower hot spot temperature;

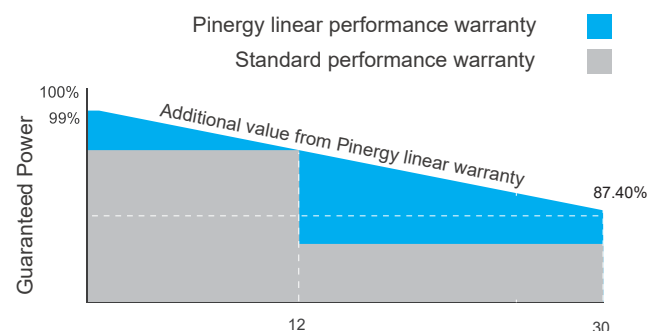


Lower power generation cost

Reduce the levelized power generation cost, and effectively increase power generation by more than 2%;

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: PNGNH66-DGBR-xxx , (xxx=Pmax)

Module Type	600	605	610	615	620	625	630
Testing Condition	STC	STC	STC	STC	STC	STC	STC
Max. Power (Pmax/W)	600	605	610	615	620	625	630
Voltage at Max. Power (Vmp/V)	40.17	40.31	40.46	40.60	40.74	40.88	41.02
Current at Max. Power (Imp/A)	14.94	15.01	15.08	15.15	15.22	15.29	15.36
Open circuit voltage (Voc/V)	48.28	48.48	48.68	48.88	49.08	49.28	49.48
Short circuit current (Isc/A)	15.84	15.90	15.96	16.02	16.08	16.14	16.20
Module efficiency (%)	22.2%	22.4%	22.6%	22.8%	23.0%	23.1%	23.3%
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

Electrical Specifications

Max. Power (Pmax/W)	663	668	674	679	685	690	696
Voltage at Max. Power (Vmp/V)	40.15	40.29	40.46	40.59	40.75	40.88	41.04
Current at Max. Power (Imp/A)	16.52	16.58	16.66	16.73	16.81	16.88	16.95
Open circuit voltage (Voc/V)	48.26	48.46	48.66	48.86	49.06	49.26	49.46
Short circuit current (Isc/A)	17.49	17.56	17.64	17.70	17.77	17.83	17.90

Standard Test Condition (STC): Irradiance 1000W/m², Cell Temperature 25 °C, AM1.5

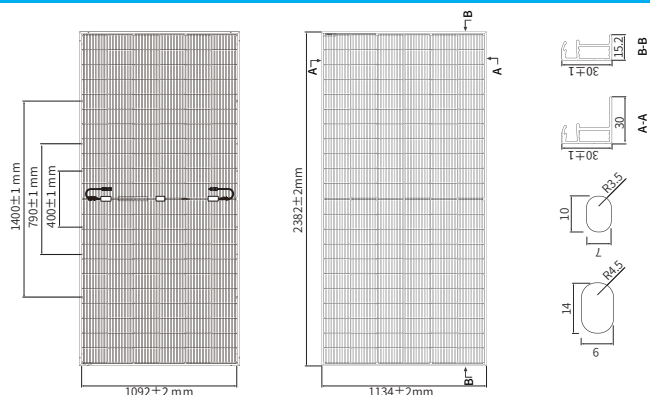
Mechanical Specifications

Cell Type	N-type Mono Solar Cell
No. of Cells	132 (6×22)
Dimension	2382x1134x30mm
Weight	32.4kg
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	720 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	30A

Curve & Temperature Dependence

