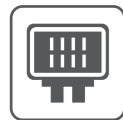


PNGNH66-DGBR 650-670 Watt

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;

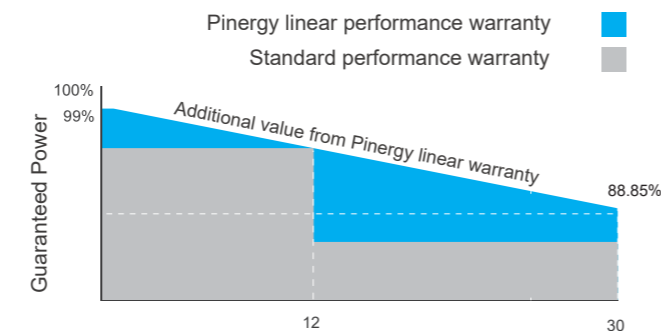


Lower power generation cost

Reduce the leveled 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	650	655	660	665	670
Testing Condition	STC	STC	STC	STC	STC
Max. Power (Pmax/W)	650	655	660	665	670
Voltage at Max. Power (Vmp/V)	42.57	42.70	42.83	42.96	43.09
Current at Max. Power (Imp/A)	15.27	15.34	15.41	15.48	15.55
Open circuit voltage (Voc/V)	50.26	50.44	50.62	50.80	50.98
Short circuit current (Isc/A)	15.98	16.04	16.10	16.16	16.22
Module efficiency (%)	24.06%	24.25%	24.43%	24.62%	24.80%
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)	724	729	735	741	746
Voltage at Max. Power (Vmp/V)	42.52	42.69	42.86	43.03	43.20
Current at Max. Power (Imp/A)	17.04	17.10	17.17	17.23	17.30
Open circuit voltage (Voc/V)	50.38	50.56	50.74	50.92	51.10
Short circuit current (Isc/A)	17.80	17.87	17.94	18.00	18.07

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

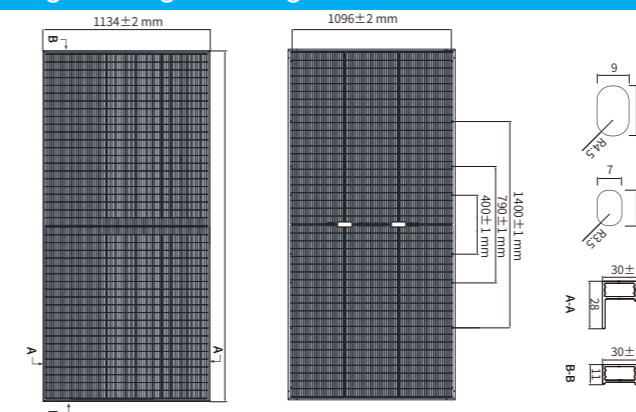
Mechanical Specifications

Cell Type	N-type Mono Solar Cell
No. of Cells	264 (66×4)
Dimension	2382x1134x30mm
Weight	32.5kg
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



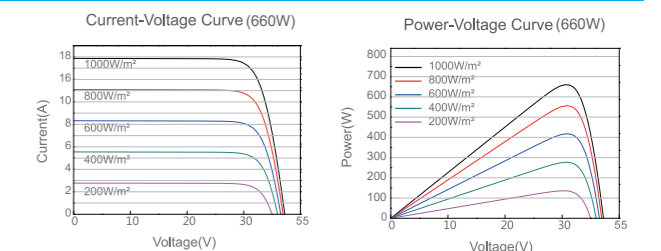
Temperature Characteristics

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	35A

Curve & Temperature Dependence



Current-Voltage Curve (660W)

