

Photovoltaic Module Monocrystalline108

KEY FEATURES



High module efficiency through superior manufacturing technology



Due to the use of multi-busbar solar cells, the temperature coefficient has been improved, resulting in no power loss.



Strictly control the micro-crack of solar cells and the other non visible defect of internal modules



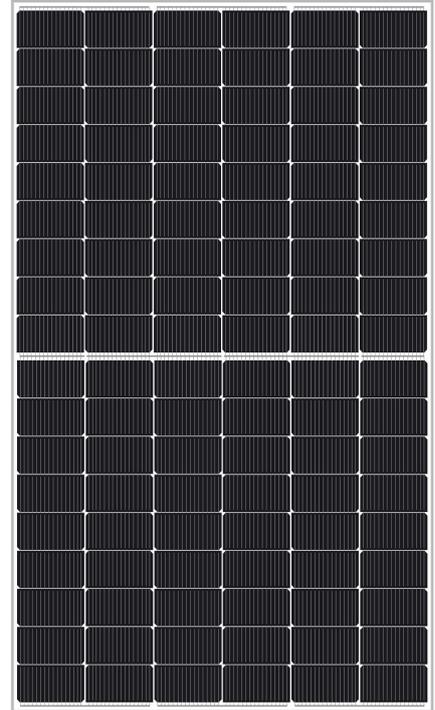
Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa



Manufactured according to and certified international I Quality and Environment Management System



Using advanced low reflection and high light transmission glass and cell sheet surface cutting technology, in the weak light environment can also play a good performance.



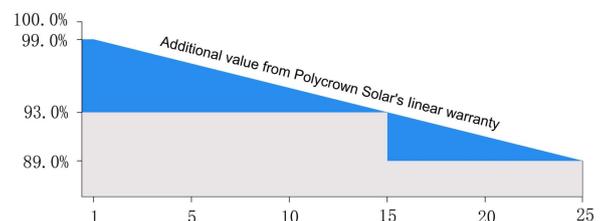
Certificates

- IEC61215, IEC61730, CQC, CE, TUV
- ISO9001:2015
- ISO14001:2015
- ISO45001:2018



Warranties

- 15 years product warranty
- 25 years power warranty



Electrical Characteristics

Model	NS-420MH-108	NS-430MH-108	NS-440MH-108	NS-450MH-108	NS-460MH-108
Maximum Power at STC(Pmax)	420W	430W	440W	450W	460W
Optimum Operating Voltage (Vmp)	32.84V	33.14V	33.44V	33.74V	34.04V
Optimum Operating Current (Imp)	12.79A	12.98A	13.16A	13.34A	13.52A
Open-Circuit Voltage (Voc)	39.23V	39.53V	39.83V	40.13V	40.43V
Short-Circuit Current (Isc)	13.55A	13.76A	13.98A	14.19A	14.40A
Solar Cell Efficiency (%)	23.43	23.99	24.55	25.11	25.41
Solar Module Efficiency (%)	21.01	21.52	22.02	22.52	23.02
Operating Temperature	-40to85°C				
Maximum System Voltage	DC1500V				
Maximum Series Fuse Rating	25A				
Power Tolerance	0~+3%				
STC:Irradiance 1000W/m ² ,Modules Temperature 25°C,AM=1.5					

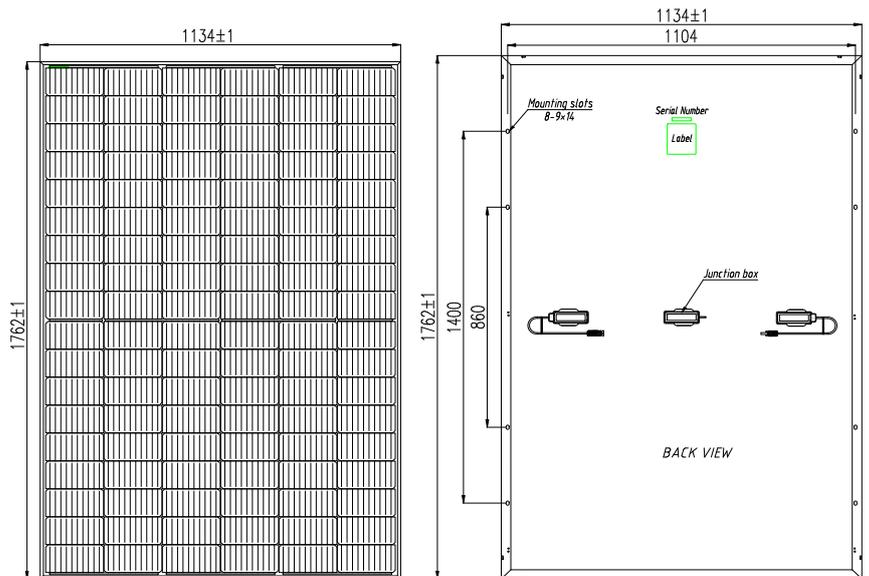
Temperature Coefficient

NOCT	45°C ± 2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of VOC	-0.25%/°C
Temperature Coefficient of ISC	0.045%/°C

Engineering Drawings

Mechanical Characteristics

No. of cells	108(6×9+6×9)
Dimensions	1762mm*1134mm*30mm
Weight	20.0kg ±3%
Front glass	3.2mm tempered glass
Frame	Anodized aluminium alloy
Junction box	IP68, three diodes
Connector	Plug and socket
Output cables	PV 4.0mm ² (+)300mm(-)300mm
1*40'HQ	37pcs/Pallet,962pcs/ 40'HQ;



IV-Curves

