

Photovoltaic Module

Monocrystalline144

KEY FEATURES



10-30% Additional Power Generation
30 years lifespan brings 10-30% additional power



ZERO LID (Light Induced Degradation)
N-type TOPCON solar cell has no LID naturally which can increase power generation



Excellent low temperature coefficient, generating
1%-2% more electricity in high-temperature areas.



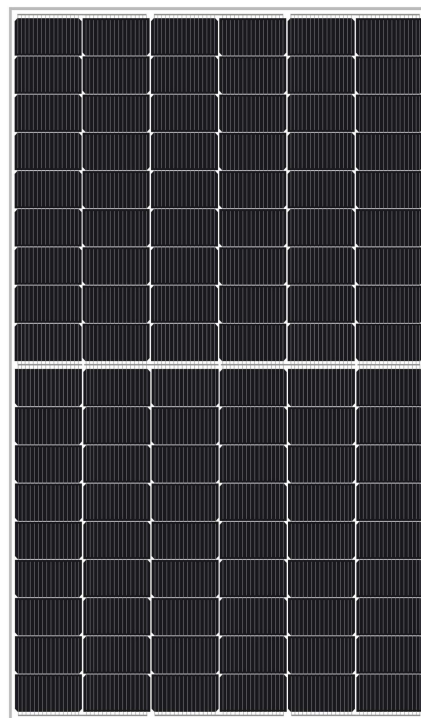
Module can bear snow loads up to 5400Pa
and wind loads up to 2400Pa



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.



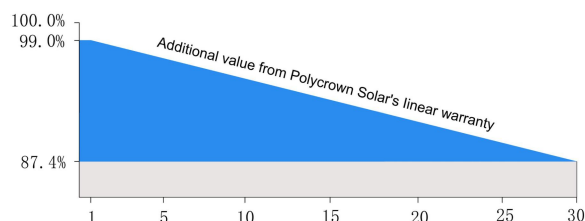
Certificates

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



Warranties

- 15 years product warranty
- 30 years power warranty



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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℃				
Maximum System Voltage	DC1500V				
Maximum Series Fuse Rating	25A				
Power Tolerance	0~+3%				
STC:Irradiance 1000W/m²,Modules Temperature 25℃,AM=1.5					

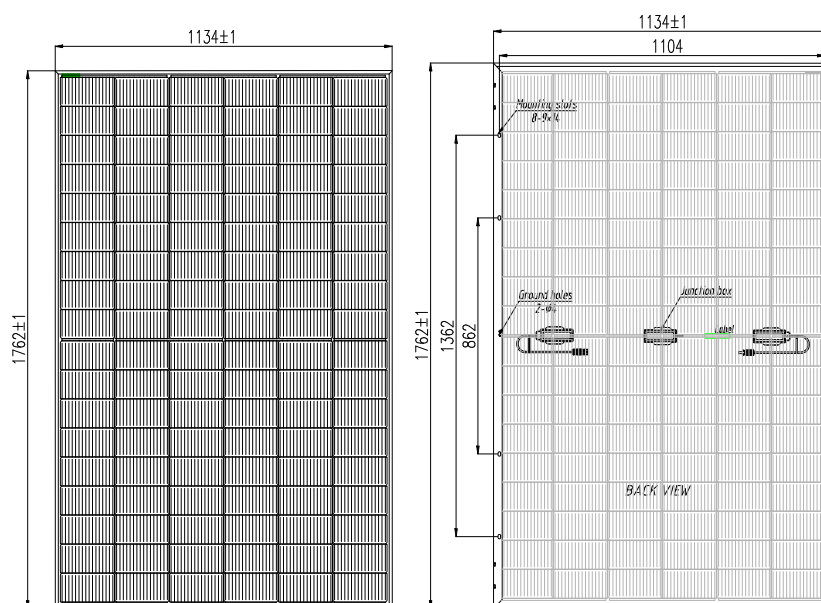
Temperature Coefficient

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

Mechanical Characteristics

No. of cells	108(6×9+6×9)
Dimensions	1762mm*1134mm*30mm
Weight	24.5kg ±3%
Front glass	2mm+2mm tempered glass
Frame	Anodized aluminium alloy
Junction box	IP68, three diodes
Connector	Plug and socket
Output cables	PV 4.0mm²
1*40'HQ	37 pcs/Pallet,962pcs/ 40'HQ;

Engineering Drawings



IV-Curves

