

Photovoltaic Module Monocrystalline120

KEY FEATURES



High module efficiency through superior manufacturing technology



N-type TOPCON/HJT solar cells are selected to maximize module conversion efficiency



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



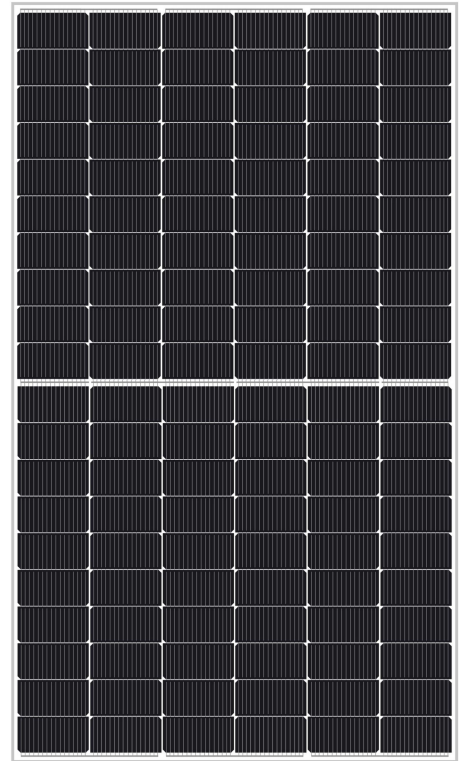
Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa



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.



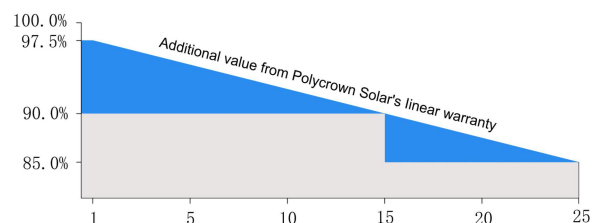
Certificates

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



Warranties

- 15 years product warranty
- 25 years power warranty



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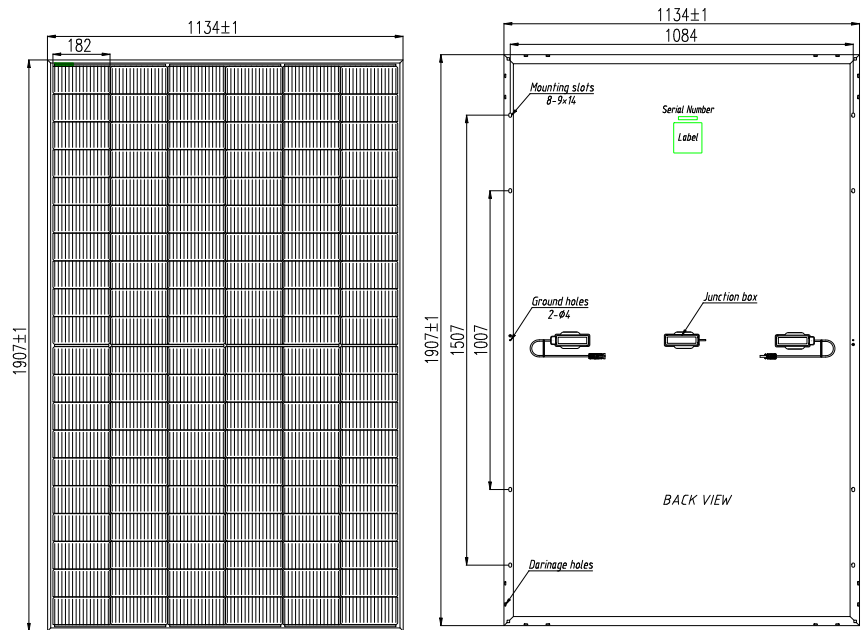
Electrical Characteristics

Model	NS-450MH-120
Maximum Power at STC(Pmax)	450W
Optimum Operating Voltage (Vmp)	34.80V
Optimum Operating Current (Imp)	12.94A
Open-Circuit Voltage (Voc)	41.50V
Short-Circuit Current (Isc)	13.91A
Solar Cell Efficiency (%)	22.94
Solar Module Efficiency (%)	20.80
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	120(6×10+6×10)
Dimensions	1907mm*1134mm*35mm
Weight	22.5kg ± 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
1*40'HQ	31 pcs/Pallet, 744 pcs/ 40'HQ;

IV-Curves

