

# Photovoltaic Module Monocrystalline60

## 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



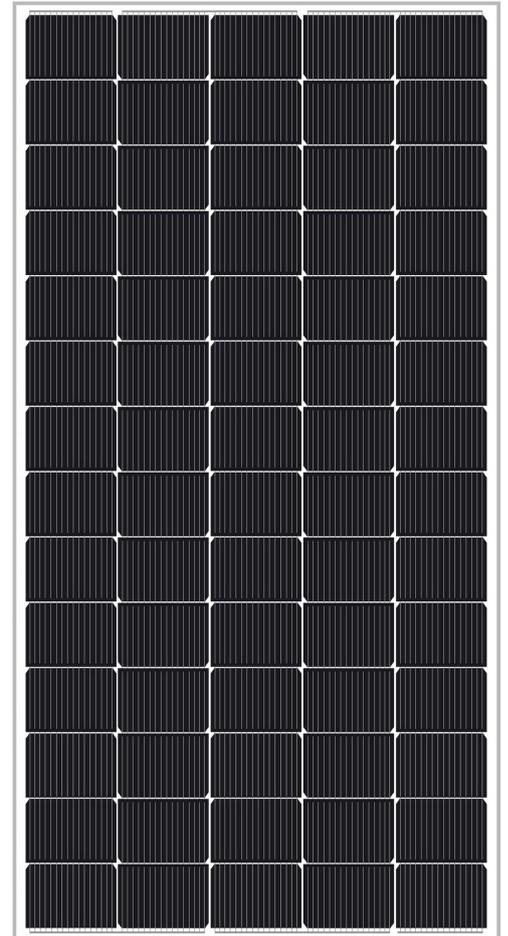
Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa



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.



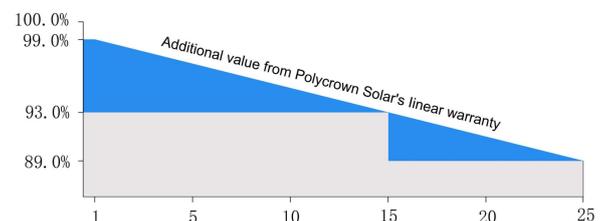
## Certificates

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



## Warranties

- 15 years product warranty
- 25 years power warranty



# Electrical Characteristics

Model	NS-380MH-80	NS-390MH-80	NS-400MH-80	NS-410MH-80	NS-420MH-80
Maximum Power at STC(Pmax)	380W	390W	400W	410W	420W
Optimum Operating Voltage (Vmp)	38.12V	38.42V	38.72V	39.04V	39.34V
Optimum Operating Current (Imp)	9.97A	10.16A	10.34A	10.51A	10.68A
Open-Circuit Voltage (Voc)	44.58V	44.88V	45.18V	45.48V	45.78V
Short-Circuit Current (Isc)	10.65A	10.86A	11.06A	11.26A	11.46A
Solar Cell Efficiency (%)	22.94	23.78	24.39	25.00	25.61
Solar Module Efficiency (%)	20.16	20.69	21.22	21.75	22.28
Operating Temperature	-40to85°C				
Maximum System Voltage	DC1500V				
Maximum Series Fuse Rating	15A				
Power Tolerance	0~+3%				
STC:Irradiance 1000W/m <sup>2</sup> , Modules Temperature 25°C, AM=1.5	1403137.5				

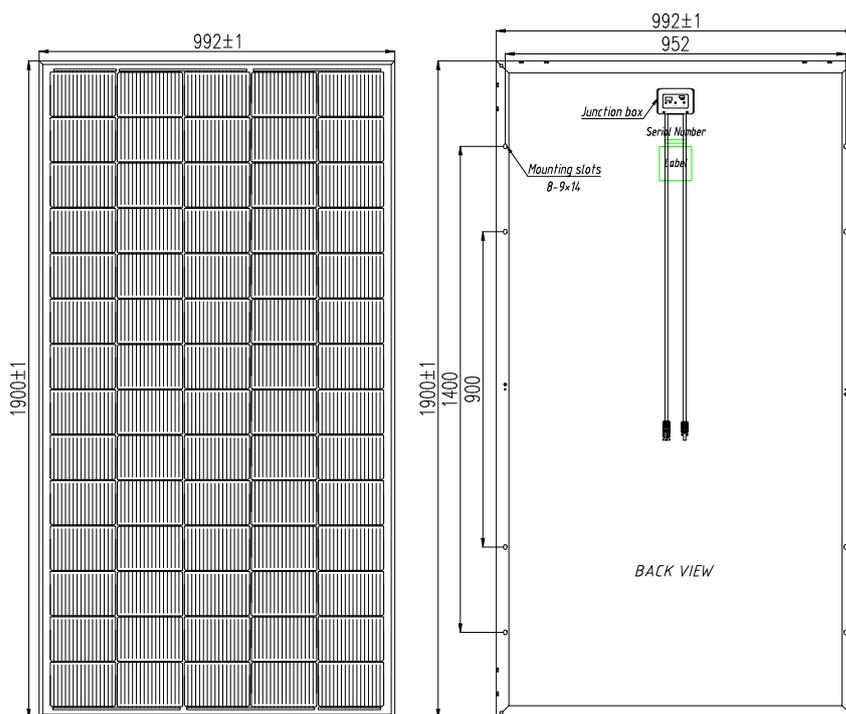
## Temperature Coefficient

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	70(5×14)
Dimensions	1900mm*992mm*30mm
Weight	20kg ±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 <sup>2</sup>
1*40'HQ	37pcs/Pallet,888pcs/ 40'HQ;



## IV-Curves

