

Photovoltaic Module

Monocrystalline80

KEY FEATURES



High module efficiency through superior manufacturing technology



No power loss thanks to improved temperature co-efficient caused by 10 busbar solar cell



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.



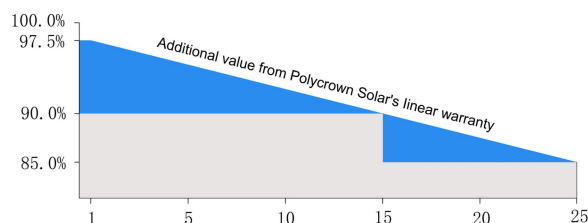
Certificates

- 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-290MH-80	NS-300MH-80	NS-310MH-80	NS-320MH-80	NS-330MH-80
Maximum Power at STC(Pmax)	290W	300W	310W	320W	330W
Optimum Operating Voltage (Vmp)	23.02V	23.22V	23.42V	23.62V	23.82V
Optimum Operating Current (Imp)	12.60A	12.92A	13.24A	13.55A	13.86A
Open-Circuit Voltage (Voc)	27.46V	27.66V	27.86V	28.06V	28.26V
Short-Circuit Current (Isc)	13.53A	13.91A	14.26A	14.62A	14.97A
Solar Cell Efficiency (%)	22.32	23.09	23.86	24.63	25.40
Solar Module Efficiency (%)	20.35	21.05	21.75	22.45	23.15
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					

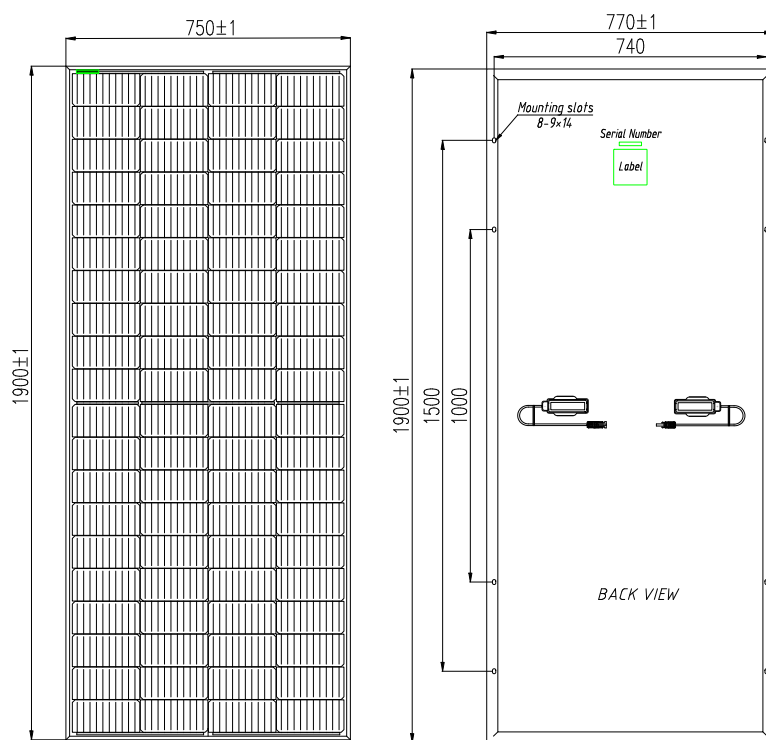
Temperature Coefficient

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	80(4×10+4×10)
Dimensions	1900mm*750mm*30mm
Weight	15kg ±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	37 pcs/Pallet, 1332pcs/ 40'HQ;

Engineering Drawings



IV-Curves

