

Photovoltaic Module

Monocrystalline120

KEY FEATURES



High module efficiency through superior manufacturing technology



N-type 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



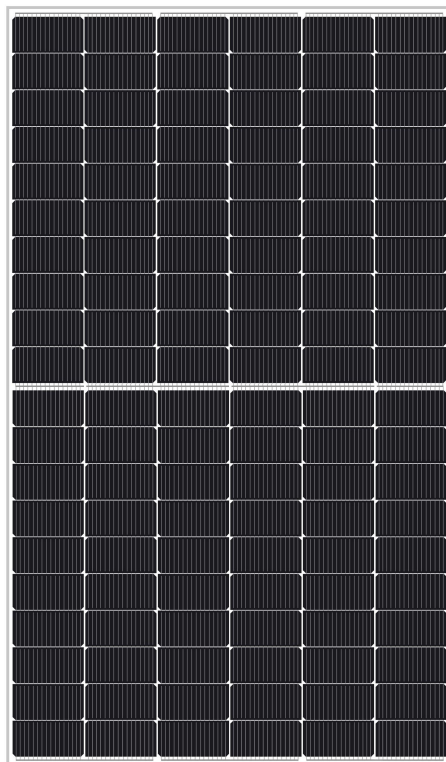
Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa



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.



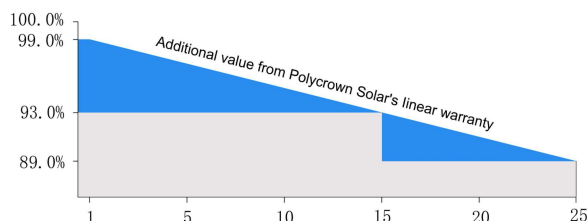
Certificates

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



Warranties

- 15 years product warranty
- 25 years power warranty



Ningbo Polycrown
Solar Tech Co, Ltd



No.363 Xiani Bridge, Xiaojia River Rd.,
Xiaogang Street, Ningbo, China



0086-13967820346



(86)574-56261160



ada@polycrown-solar.com



www.polycrown-solar.com

Electrical Characteristics

Model	NS-450MH-120	NS-460MH-120	NS-470MH-120	NS-480MH-120	NS-485MH-120
Maximum Power at STC(Pmax)	450W	460W	470W	480W	485W
Optimum Operating Voltage (Vmp)	34.80V	35.16V	35.22V	35.62V	35.82V
Optimum Operating Current (Imp)	12.94A	13.09A	13.35A	13.48A	13.54A
Open-Circuit Voltage (Voc)	41.50V	41.90V	42.23V	42.63V	42.83V
Short-Circuit Current (Isc)	13.91A	13.80A	14.26A	14.43A	14.51A
Solar Cell Efficiency (%)	22.94	23.45	23.96	24.47	24.72
Solar Module Efficiency (%)	20.80	21.27	21.73	22.19	22.42
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					

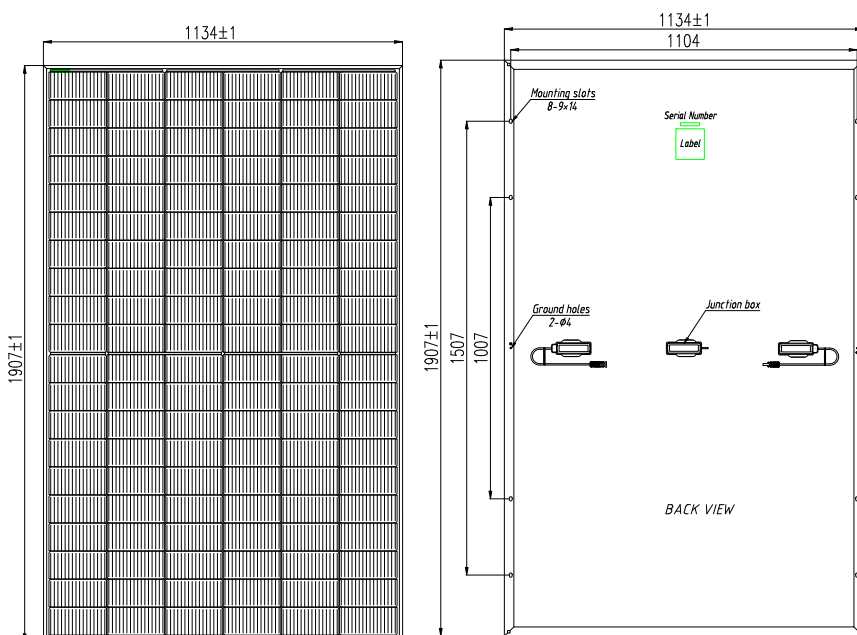
Temperature Coefficient

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

Engineering Drawings

Mechanical Characteristics

No. of cells	120(6×10+6×10)
Dimensions	1907mm*1134mm*30mm
Weight	21.5kg ±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	37 pcs/Pallet, 888pcs/ 40'HQ;



IV-Curves

