

# 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/HJT solar cell has no LID naturally which can increase power generation



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



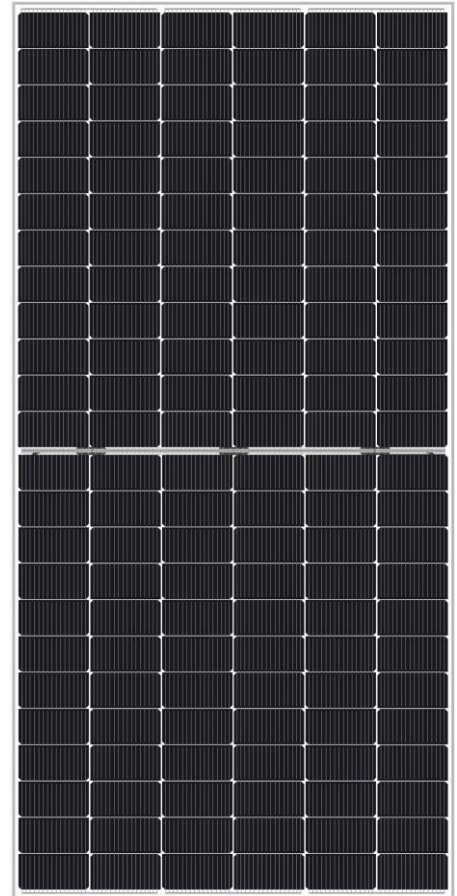
Module can bear snow loads up to 5400Pa  
and wind loads up to 2400Pa



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.



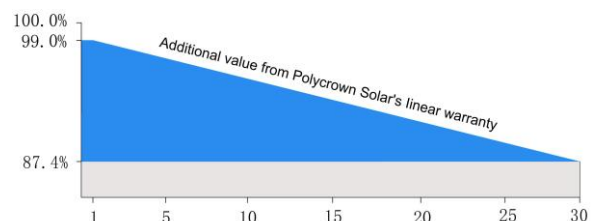
## Certificates

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



## Warranties

- 15 years product warranty
- 30 years power warranty



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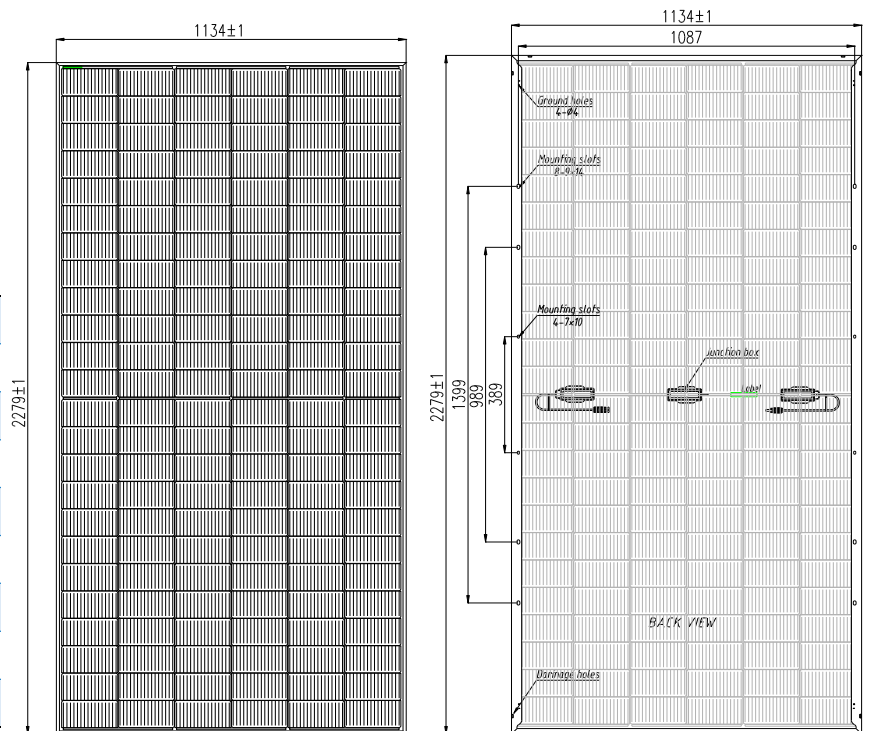
# Electrical Characteristics

Model	NS-565MH-144	NS-570MH-144	NS-575MH-144	NS-580MH-144	NS-585MH-144
Maximum Power at STC(Pmax)	565W	570W	575W	580W	585W
Optimum Operating Voltage (Vmp)	42.56V	42.66V	42.78V	42.88V	42.98V
Optimum Operating Current (Imp)	13.28A	13.37A	13.45A	13.53A	13.62A
Open-Circuit Voltage (Voc)	50.70V	50.90V	51.05V	51.25V	51.40V
Short-Circuit Current (Isc)	14.28A	14.35A	14.44A	14.51A	14.58A
Solar Cell Efficiency (%)	24.01	24.22	24.43	24.64	24.85
Solar Module Efficiency (%)	21.86	22.05	22.24	22.44	22.63
Operating Temperature	-40to85°C				
Maximum System Voltage	DC1500V				
Maximum Series Fuse Rating	30A				
Power Tolerance	0~+3%				
STC:Irradiance 1000W/m <sup>2</sup> ,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	144(6x12+6x12)
Dimensions	2279mm*1134mm*30mm
Weight	32.0kg ±3%
Front glass	2mm+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	36 pcs/Pallet, 720 pcs/ 40'HQ;

## IV-Curves

