

## Photovoltaic Module Monocrystalline144

### 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



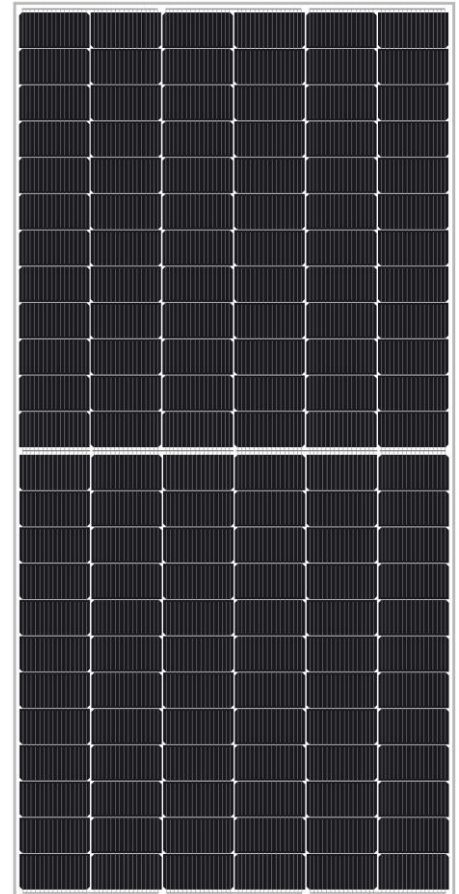
Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa



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.



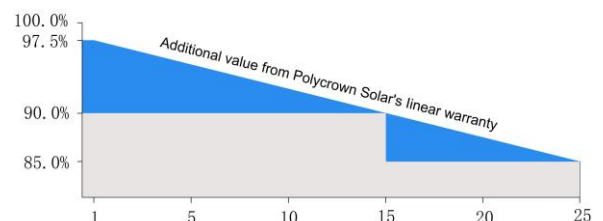
### Certificates

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



### Warranties

- 15 years product warranty
- 25 years power warranty



## Electrical Characteristics

# ECWAT Solar

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	51.45V
Short-Circuit Current (Isc)	14.28A	14.35A	14.44A	14.51A	14.57A
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					

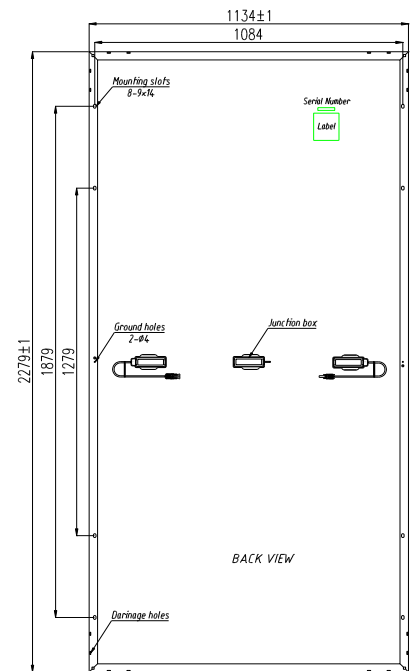
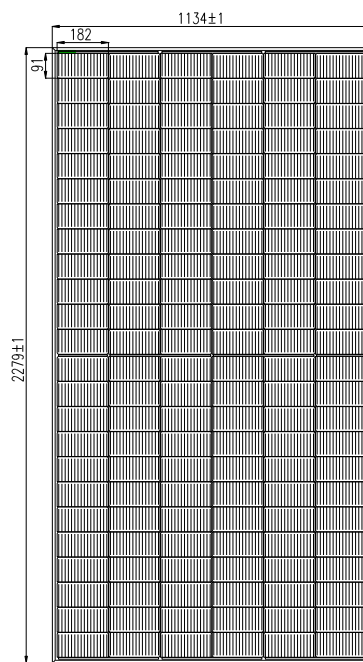
## Temperature Coefficient

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(6×12+6×12)
Dimensions	2279mm*1134mm*35mm
Weight	28.0kg ±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	31 pcs/Pallet, 620 pcs/ 40'HQ;



## IV-Curves

