

# Photovoltaic Module Monocrystalline144

## 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.



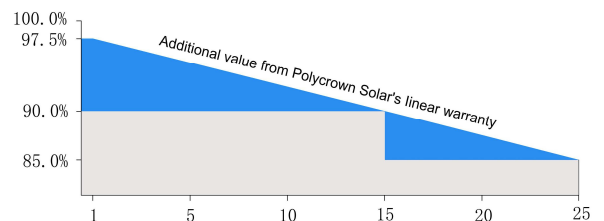
## Certificates

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



## Warranties

- 15 years product warranty
- 25 years power warranty



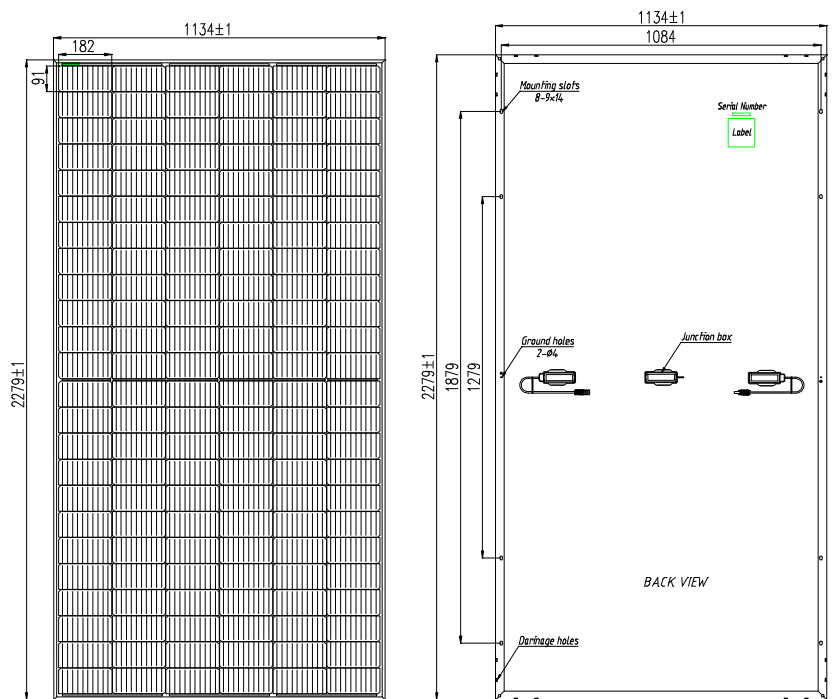
## Electrical Characteristics

Model	NS-535MH-144	NS-540MH-144	NS-545MH-144	NS-550MH-144	NS-555MH-144
Maximum Power at STC(Pmax)	535W	540W	545W	550W	555W
Optimum Operating Voltage (Vmp)	41.60V	41.76V	41.93V	42.10V	42.26V
Optimum Operating Current (Imp)	12.87A	12.94A	13.00A	13.07A	13.14A
Open-Circuit Voltage (Voc)	49.50V	49.70V	49.90V	50.10V	50.30V
Short-Circuit Current (Isc)	13.61A	13.72A	13.81A	13.90A	14.14A
Solar Cell Efficiency (%)	22.73	22.94	23.15	23.36	23.58
Solar Module Efficiency (%)	20.7	20.89	21.08	21.28	21.47
Operating Temperature	-40to85℃				
Maximum System Voltage	DC1500V				
Maximum Series Fuse Rating	25A				
Power Tolerance	0~+3%				
STC:Irradiance 1000W/m <sup>2</sup> ,Modules Temperature 25℃,AM=1.5					

## Temperature Coefficient

NOCT	45℃ ± 2℃
Temperature Coefficient of Pmax	-0.34%/℃
Temperature Coefficient of VOC	-0.26%/℃
Temperature Coefficient of ISC	+0.05%/℃

## Engineering Drawings



## Mechanical Characteristics

No. of cells	144(6×12+6×12)
Dimensions	2279mm*1134mm*35mm
Weight	25.5kg
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

