

# Photovoltaic Module Monocrystalline132

## KEY FEATURES



10-30% Additional Power Generation  
30 years lifespan brings 10-30% additional power



ZERO LID (Light Induced Degradation)  
N-type 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.



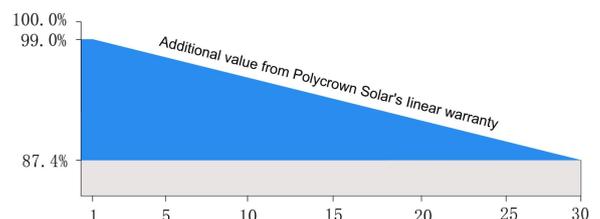
## Certificates

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



## Warranties

- 15 years product warranty
- 30 years power warranty



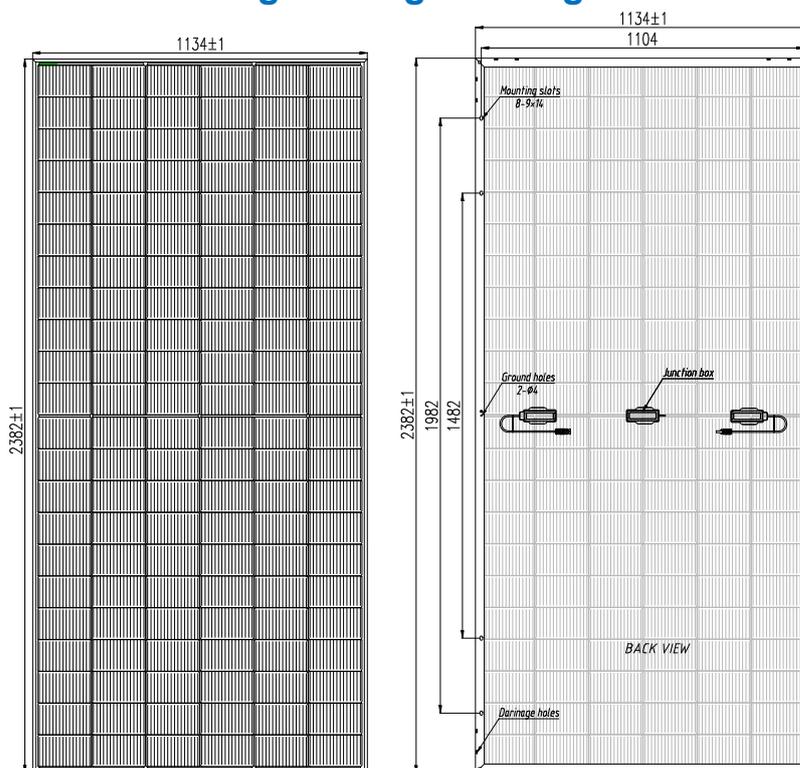
# Electrical Characteristics

Model	NS-610MH-132	NS-620MH-132	NS-630MH-132	NS-640MH-132	NS-650MH-132
Maximum Power at STC(Pmax)	610W	620W	630W	640W	650W
Optimum Operating Voltage (Vmp)	40.56V	40.88V	41.20V	41.30V	41.58V
Optimum Operating Current (Imp)	15.04A	15.17A	15.30A	15.50A	15.64A
Open-Circuit Voltage (Voc)	48.60V	48.92V	49.24V	49.64V	49.92V
Short-Circuit Current (Isc)	15.68A	15.84A	15.99A	16.11A	16.27A
Solar Cell Efficiency (%)	24.42	24.82	25.22	25.62	25.76
Solar Module Efficiency (%)	22.58	22.95	23.32	23.69	24.06
Operating Temperature	-40to85°C				
Maximum System Voltage	DC1500V				
Maximum Series Fuse Rating	25A				
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	132(6×11+6×11)
Dimensions	2382mm*1134mm*30mm
Weight	34kg ± 3%
Front glass	2mm+2mm tempered glass
Junction box	IP68, three diodes
Connector	Plug and socket
Output cables	PV 4.0mm <sup>2</sup>
1*40'HQ	37 pcs/Pallet, 740pcs/ 40'HQ;

## IV-Curves

