

Photovoltaic Module Monocrystalline144

KEY FEATURES



High module efficiency through superior manufacturing technology



No power loss thanks to improved temperature co-efficient caused by 9 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.



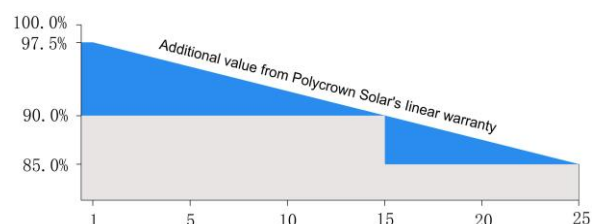
Certificates

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



Warranties

- 15 years product warranty
- 25 years power warranty



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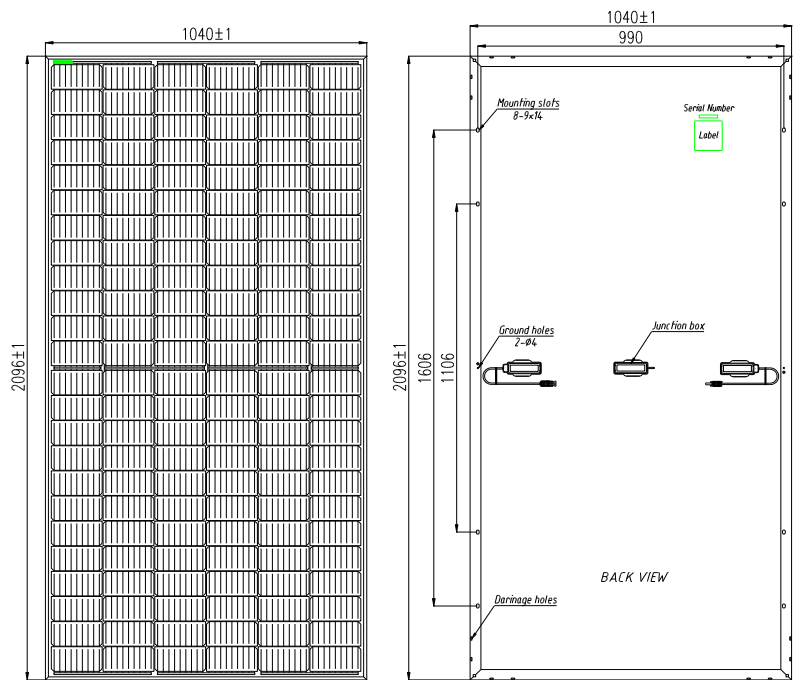
Electrical Characteristics

Model	NS-450MH-144	NS-460MH-144
Maximum Power at STC(Pmax)	450W	460W
Optimum Operating Voltage (Vmp)	41.91V	42.31V
Optimum Operating Current (Imp)	10.74A	10.88A
Open-Circuit Voltage (Voc)	49.58V	49.98V
Short-Circuit Current (Isc)	11.63A	11.79A
Solar Cell Efficiency (%)	23.02	23.53
Solar Module Efficiency (%)	20.64	21.10
Operating Temperature	-40to85℃	
Maximum System Voltage	DC1500V	
Maximum Series Fuse Rating	20A	
Power Tolerance	0~+3%	
STC:Irradiance 1000W/m ² ,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	2096mm*1040mm*35mm
Weight	22.3kg
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	31pcs/Pallet,713pcs/ 40'HQ;

IV-Curves

