

Photovoltaic Module

Monocrystalline108

KEY FEATURES



High module efficiency through superior manufacturing technology



N-type 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



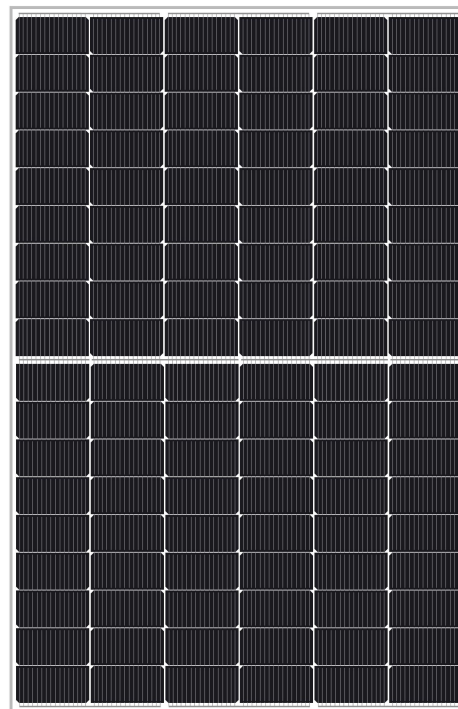
Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa



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.



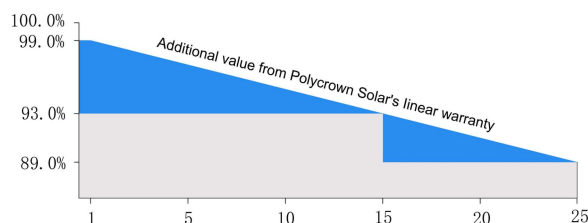
Certificates

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



Warranties

- 15 years product warranty
- 25 years power warranty



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Electrical Characteristics

Model	NS-410MH-108	NS-420MH-108	NS-430MH-108	NS-435MH-108	NS-440MH-108
Maximum Power at STC(Pmax)	410W	420W	430W	435W	440W
Optimum Operating Voltage (Vmp)	30.96V	31.26V	31.68V	31.88V	32.16V
Optimum Operating Current (Imp)	13.25A	13.44A	13.58A	13.65A	13.69A
Open-Circuit Voltage (Voc)	37.11V	37.51V	37.86V	38.01V	38.16V
Short-Circuit Current (Isc)	14.16A	14.35A	14.56A	14.67A	14.78A
Solar Cell Efficiency (%)	23.38	23.95	24.52	24.80	25.09
Solar Module Efficiency (%)	20.97	21.48	21.99	22.25	22.50
Operating Temperature			-40to85℃		
Maximum System Voltage			DC1500V		
Maximum Series Fuse Rating			25A		
Power Tolerance			0~+3%		
STC:Irradiance 1000W/m²,Modules Temperature 25℃,AM=1.5					

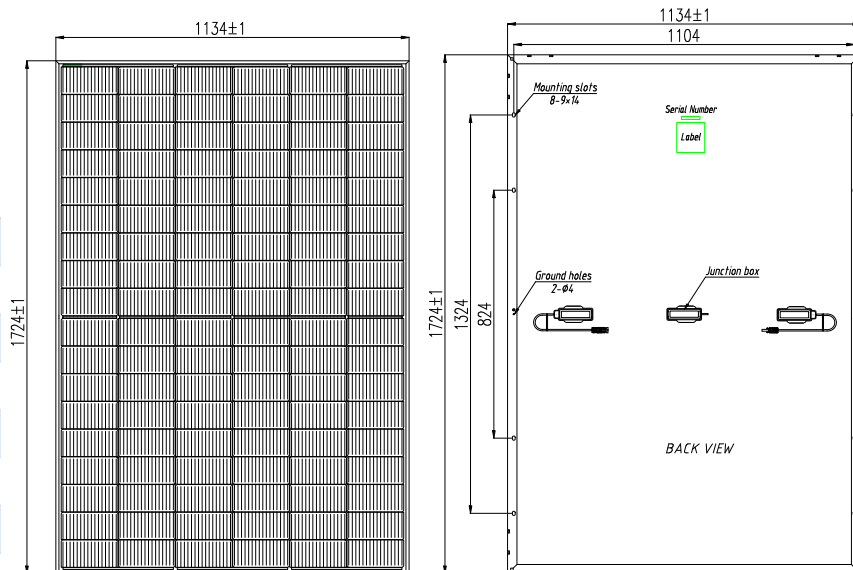
Temperature Coefficient

NOCT	45℃±2℃
Temperature Coefficient of Pmax	-0.29%/℃
Temperature Coefficient of VOC	-0.25%/℃
Temperature Coefficient of ISC	0.045%/℃

Mechanical Characteristics

No. of cells	108(6×9+6×9)
Dimensions	1724mm*1134mm*30mm
Weight	19.5kg ±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 ²
1*40'HQ	37 pcs/Pallet,962pcs/ 40'HQ;

Engineering Drawings



IV-Curves

