

Photovoltaic Module Monocrystalline144

KEY FEATURES



High module efficiency through superior manufacturing technology



No power loss thanks to improved temperature co-efficient caused by 9/10/11 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.



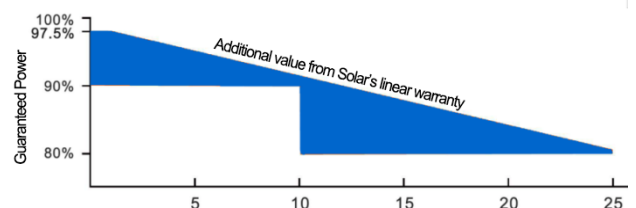
Certificates

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



Warranties

- 10 years product warranty
- 25 years power warranty



Electrical Characteristics

Model	NS-535S8	NS-540S8	NS-545S8	NS-550S8
Maximum Power at STC(Pmax)	535W	540W	545W	550W
Optimum Operating Voltage (Vmp)	41.6V	41.76V	41.93V	42.1V
Optimum Operating Current (Imp)	12.87A	12.94A	13.00A	13.07A
Open-Circuit Voltage (Voc)	49.5V	49.7V	49.9V	50.1V
Short-Circuit Current (Isc)	13.61A	13.72A	13.81A	13.9A
Solar Cell Efficiency (%)	22.51	22.72	22.93	23.14
Solar Module Efficiency (%)	20.70	20.89	21.08	21.28
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				

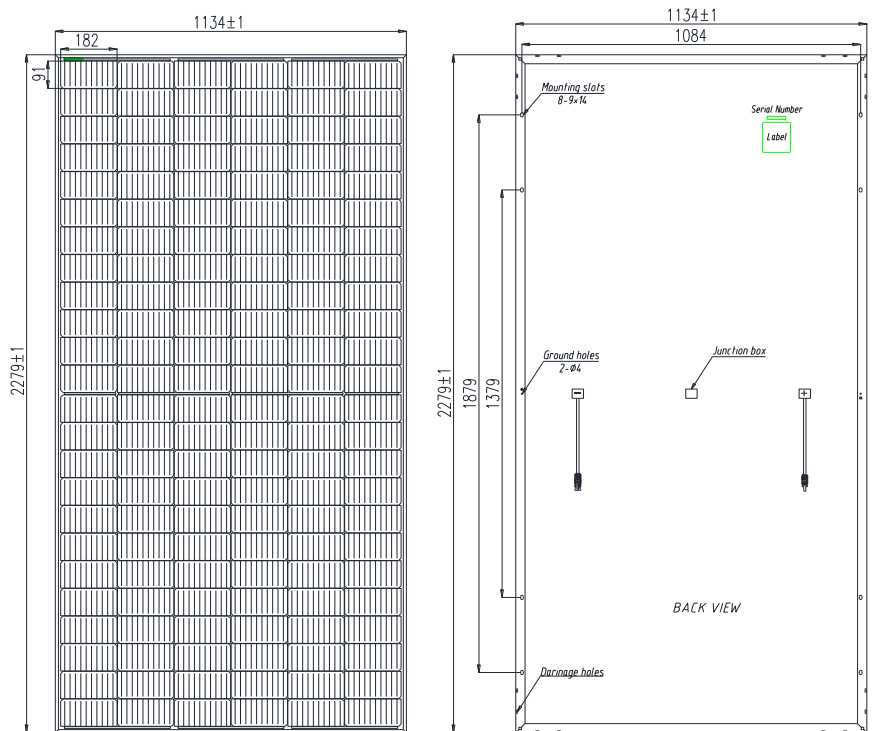
Temperature Coefficient

NOCT	45℃+/-2℃
Temperature Coefficient of Pmax	-0.39%/℃
Temperature Coefficient of VOC	-0.29%/℃
Temperature Coefficient of ISC	+0.05%/℃

Mechanical Characteristics

No.of cells	144(6×12+6×12)
Dimensions	2279mm*1134mm*35mm
Weight	26kg
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*20'	260PCS
1*40'HQ	620PCS

Engineering Drawings



IV-Curves

