Polycrown Solar

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

EL

Strictly control the micro-crack of solar cells and the other
non visible defect of internal modules

5400 Pa

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

IEC 1000V

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

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Electrical Characteristics

Model	NS-535S8	NS-540S8	NS-545S8	NS-550S8
Maximum Power at STC(Pmax)	535	540	545	550
Optimum Operating Voltage (Vmp)	41.6	41.76	41.93	42.1
Optimum Operating Current (Imp)	12.87	12.94	13.00	13.07
Open-Circuit Voltage (Voc)	49.5	49.7	49.9	50.1
Short-Circuit Current (Isc)	13.61	13.72	13.81	13.9
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/㎡,Modules Temperature 25℃,AM=1.5				

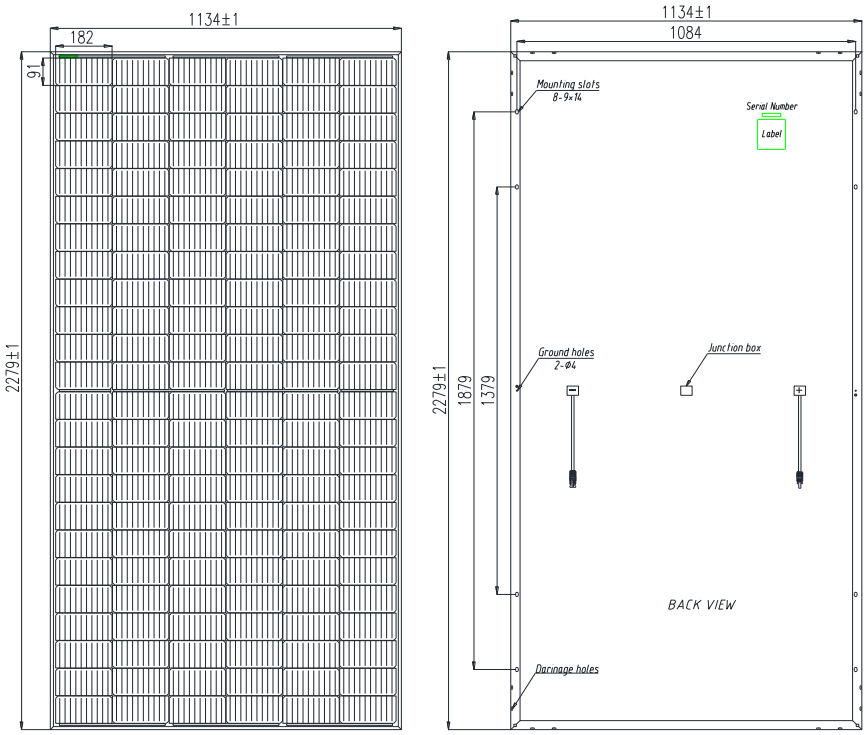
Temperature Coefficient

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	28.4kg
Front glass	3.2mm tempered glass
Frame	Anodized aluminium alloy
Junction box	IP68, three diodes
Connector	Plug and socket
Output cables	PV 4.0mm²
1*20'	/
1*40'	/
1*40'HQ	670pcs

Engineering Drawings



IV-Curves

