

# 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



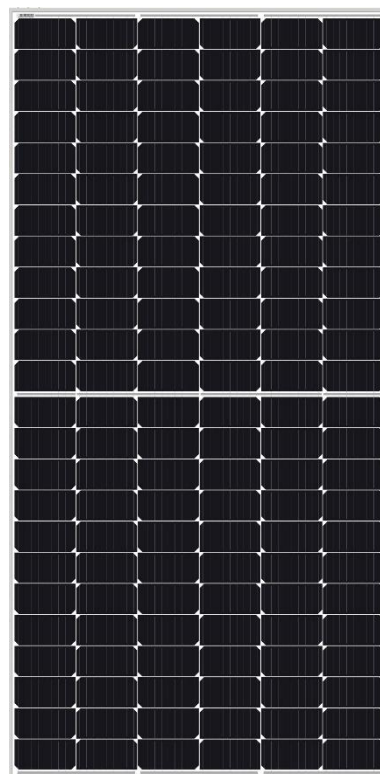
Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa



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.



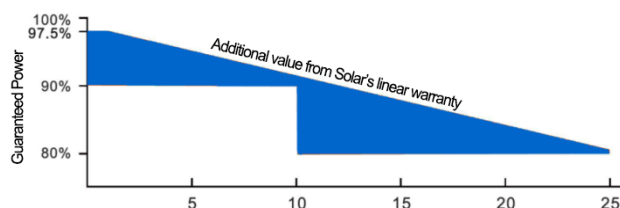
## Certificates

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



## Warranties

- 10 years product warranty
- 25 years power warranty



## Electrical Characteristics

Model	HS144-425-M6	HS144-430-M6	HS144-435-M6	HS144-440-M6	HS144-445-M6
Maximum Power at STC(Pmax)	425W	430W	435W	440W	445W
Optimum Operating Voltage (Vmp)	40.55V	40.7V	40.85V	41.0V	41.15V
Optimum Operating Current (Imp)	10.49A	10.57A	10.65A	10.74A	10.82A
Open-Circuit Voltage (Voc)	49.0V	49.2V	49.4V	49.6V	49.8V
Short-Circuit Current (Isc)	11.08A	11.17A	11.25A	11.33A	11.41A
Solar Cell Efficiency (%)	21.53	21.78	22.04	22.29	22.55
Solar Module Efficiency (%)	19.55	19.78	20.01	20.24	20.47
Operating Temperature	-40to85°C				
Maximum System Voltage	DC1500V				
Maximum Series Fuse Rating	15A				
Power Tolerance	0~+3%				
STC:Irradiance 1000W/m <sup>2</sup> ,Modules Temperature 25°C,AM=1.5					

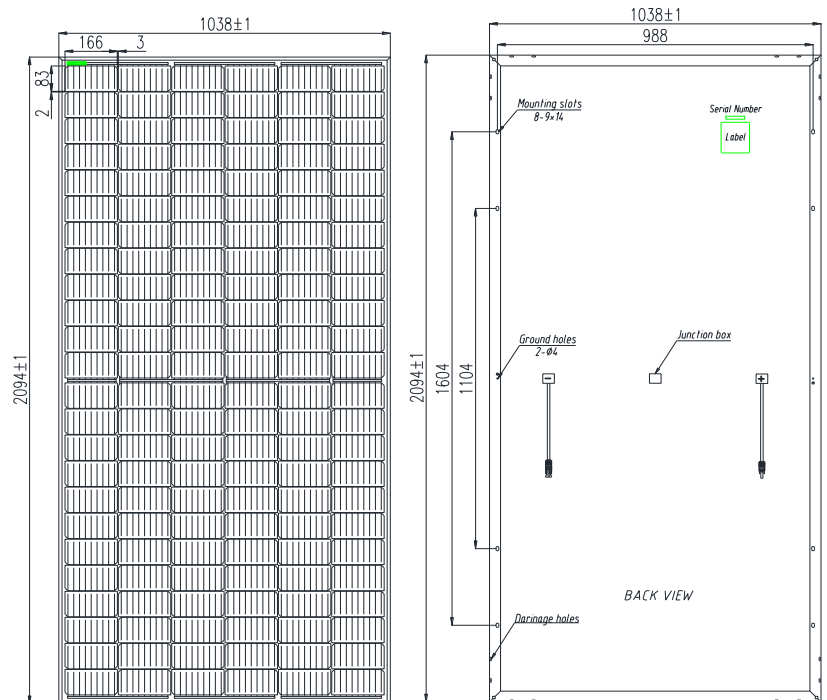
## Temperature Coefficient

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

## Mechanical Characteristics

No.of cells	144(6x12+6x12)
Dimensions	2094mm*1038mm*35mm
Weight	24kg
Front glass	3.2mm tempered glass
Frame	Anodized aluminium alloy
Junction box	IP68, three diodes
Connector	Plug and socket
Output cables	PV 4.0mm <sup>2</sup> ;0.9m
1*20'	260pcs
1*40'	572pcs
1*40'HQ	616pcs

## Engineering Drawings



## IV-Curves

