

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.



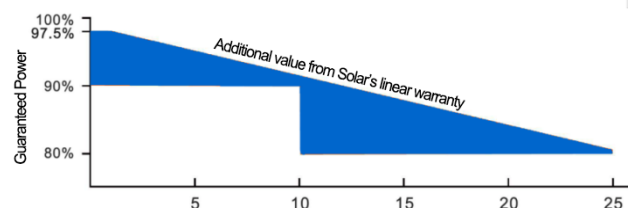
Certificates

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



Warranties

- 10 years product warranty
- 25 years power warranty



Electrical Characteristics

Model	HS144-430-M6	HS144-435-M6	HS144-440-M6	HS144-445-M6	HS144-450-M6
Maximum Power at STC(Pmax)	430W	435W	440W	445W	450W
Optimum Operating Voltage (Vmp)	40.7V	40.85V	41.00V	41.15V	41.30V
Optimum Operating Current (Imp)	10.57A	10.65A	10.74A	10.82A	10.90A
Open-Circuit Voltage (Voc)	49.2V	49.4V	49.6V	49.8V	50.0V
Short-Circuit Current (Isc)	11.17A	11.25A	11.33A	11.41A	11.54A
Solar Cell Efficiency (%)	21.78	22.04	22.29	22.55	22.81
Solar Module Efficiency (%)	19.78	20.01	20.24	20.47	20.70
Operating Temperature	-40to85°C				
Maximum System Voltage	DC1500V				
Maximum Series Fuse Rating	15A				
Power Tolerance	0~+3%				
STC:Irradiance 1000W/m ² ,Modules Temperature 25°C,AM=1.5					

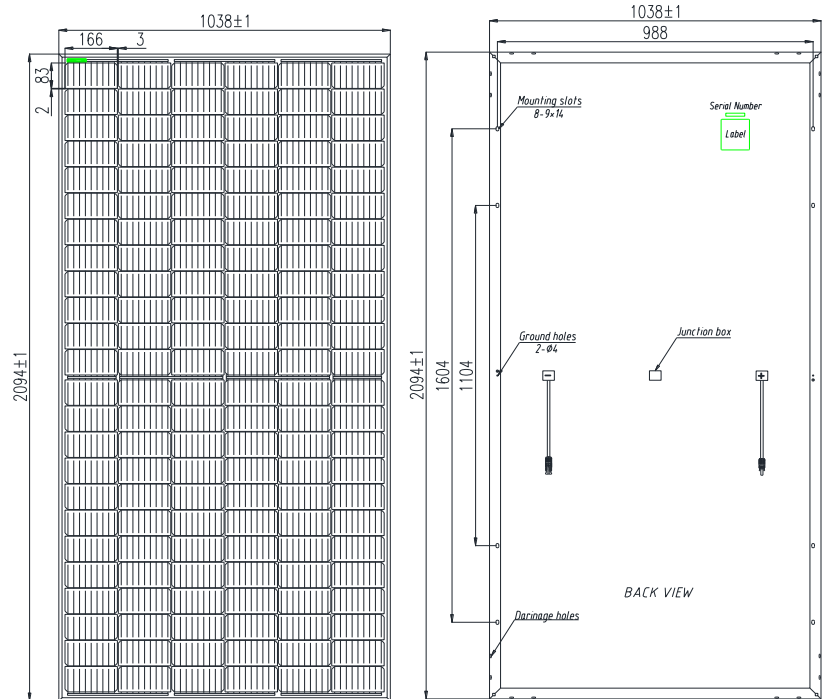
Temperature Coefficient

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 ² ;0.9m
1*20'	260pcs
1*40'	572pcs
1*40'HQ	616pcs

Engineering Drawings



IV-Curves

