

Photovoltaic Module Monocrystalline108

KEY FEATURES



High module efficiency through superior manufacturing technology



No power loss thanks to improved temperature co-efficient caused by 11 busbar solar cell



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



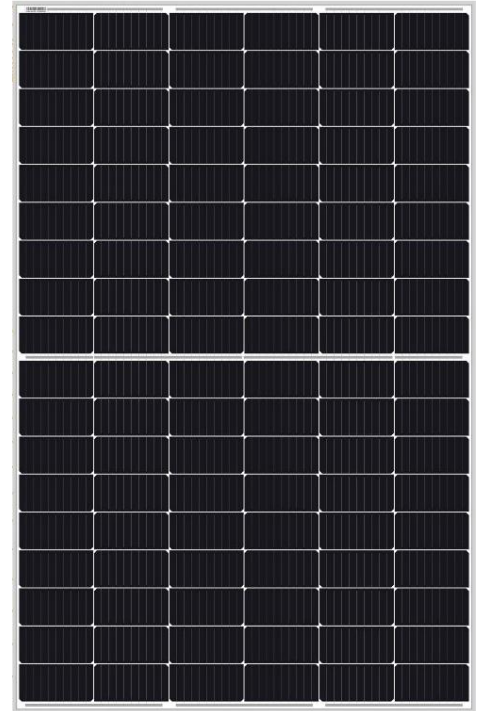
Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa



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.



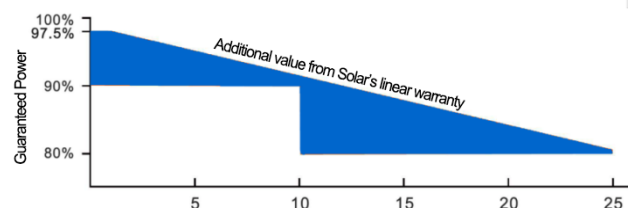
Certificates

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



Warranties

- 10 years product warranty
- 25 years power warranty



Electrical Characteristics

Model	MSP400	MSP405	MSP410	MSP415
Maximum Power at STC(Pmax)	400W	405W	410W	415W
Optimum Operating Voltage (Vmp)	31.18V	31.35V	31.52V	31.68V
Optimum Operating Current (Imp)	12.83A	12.92A	13.01A	13.10A
Open-Circuit Voltage (Voc)	37.21V	37.38V	37.55V	37.71V
Short-Circuit Current (Isc)	13.67A	13.76A	13.85A	13.94A
Solar Cell Efficiency (%)	22.66	22.94	23.22	23.51
Solar Module Efficiency (%)	20.5	20.7	21.0	21.2
Operating Temperature	-40to85°C			
Maximum System Voltage	DC1500V			
Maximum Series Fuse Rating	25A			
Power Tolerance	0~+3%			
STC:Irradiance 1000W/m ² ,Modules Temperature 25°C,AM=1.5				

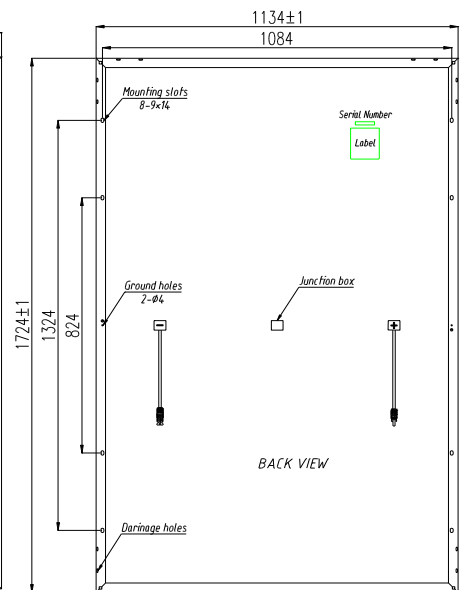
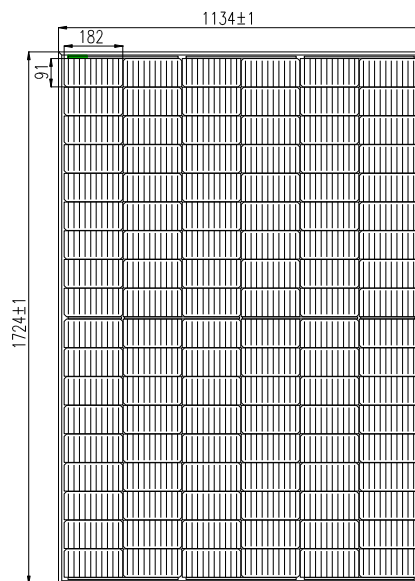
Temperature Coefficient

NOCT	43±2°C
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of VOC	-0.28%/°C
Temperature Coefficient of ISC	+0.048%/°C

Mechanical Characteristics

No.of cells	108(6×9+6×9)
Dimensions	1724mm*1134mm*35mm
Weight	20.8kg
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
Modules/Pallet	31 Pieces
Modules/40'Cont	806 Pieces
Packing	26Pallets, 806 Pieces

Engineering Drawings



IV-Curves

