

400W Photovoltaic Module Monocrystalline 108cells



ENSKO SOLAR

KEY FEATURES



High module efficiency through superior manufacturing technology



No power loss thanks to improved temperature co-efficient caused by MBB Perc solar cell



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



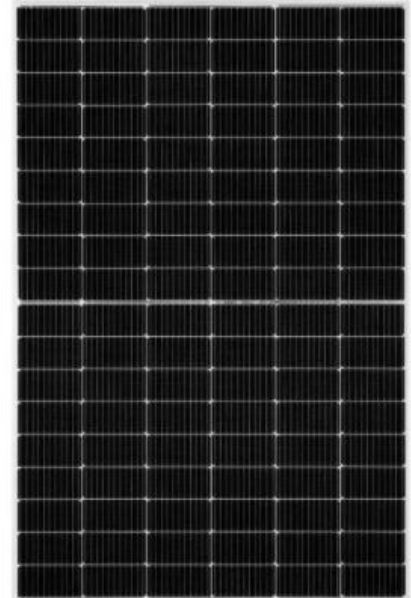
Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa



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.



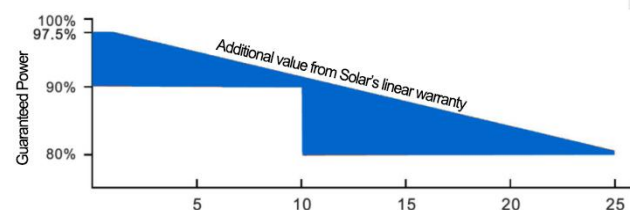
Certificates

- IEC61215, IEC61730, CQC, CE, TUV
- ISO9001:2008
- ISO14001:2004
- BSOHSAS18001:2007



Warranties

- 10 years product warranty
- 25 years power warranty



Electrical Characteristics

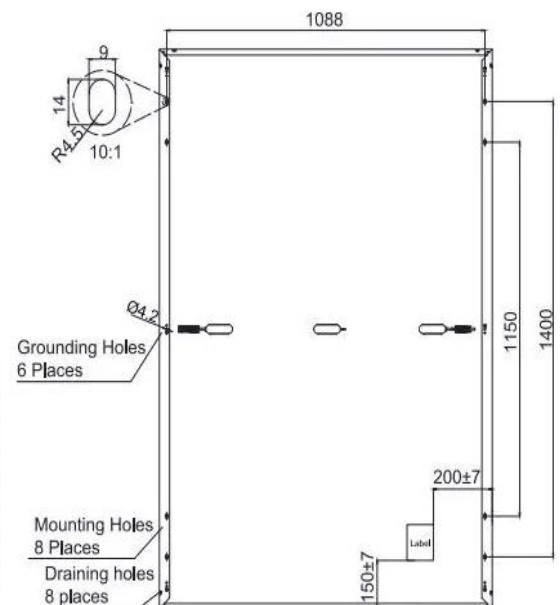
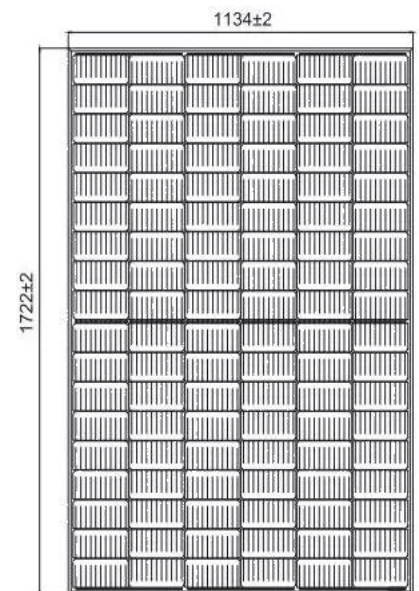
Model	SPM-400W	SPM-405W	SPM-410W	SPM-415W
Maximum Power at STC(Pmax)	400W	405W	410W	415W
Optimum Operating Voltage (Vmp)	31.20V	31.40V	31.60V	31.80V
Optimum Operating Current (Imp)	12.83A	12.90A	12.98A	13.06A
Open-Circuit Voltage (Voc)	37.10V	37.30V	37.50V	37.70V
Short-Circuit Current (Isc)	13.73 A	13.81A	13.88 A	13.96A
Solar Cell Efficiency (%)	22.36	22.64	22.92	23.20
Solar Module Efficiency (%)	20.48	20.74	20.99	21.25
Operating Temperature	-40to85°C			
Maximum System Voltage	DC1500			
Maximum Series Fuse Rating	25A			
Power Tolerance	0~+3%			

STC:Irradiance 1000W/m²,Modules Temperature 25°C,AM=1.5

Temperature Coefficient and Mechanical Characteristics

Nominal Operating Cell Temperature (NOCT)	45°C+/-2°C
Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of VOC	-0.29%/°C
Temperature Coefficient of ISC	+0.05%/°C
Solar cell	Mono182*91mm
No.of cells	108 (6*9+6*9)
Dimensions	1722*1134*35mm
Weight	22kg
Front glass	3.2mm tempered glass
Frame	Anodized aluminium alloy
Junction box	PV_*****
Connector	MC4 compatible
Output cables	PV 4.0mm ²
1*20'	260pcs
1*40'	572pcs
1*40'HQ	638pcs
13.6	676pcs
17.5	884pcs

Engineering Drawings



IV-Curves

Current-Voltage & Power-Voltage Curve (410)

