

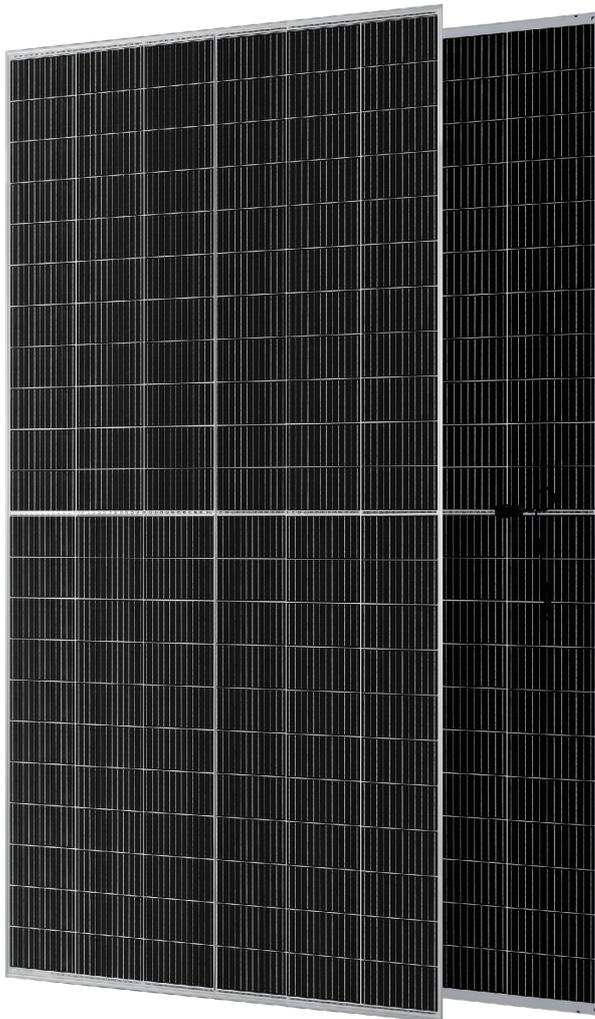
HJT Technology

1/2 Cut

Silver Frame Bifacial 690-710W

MS(690-710)JT-66H
Mono HJT 210mm 132 Cells

Advanced Solar Technology



High Bifacial Rate

The HJT cell uses a symmetrical front and back structure, showing an ultra-high bifacial rate. The maximum power generation utilization rate on the back can reach 95%.



High Stability

HJT N-type silicon is doped with phosphorus, and the surface is TCO film, which abandons the insulating layer. Therefore, HJT cell completely eliminates the PID and LID effects, which ensures the long-term stability of the system.



Low Temperature Coefficient

The power temperature coefficient of HJT PV modules is only $-0.24\%/^{\circ}\text{C}$. HJT modules operating in hot environments can bring more power generation gains.



Consistent Color

Due to the characteristics of HJT cell process, HJT module color is basically the same without color difference. It creates a beautiful and coherent visual effect.



High Profitability

With cutting-edge technology and excellent performance, within the product life cycle, the return on investment of HJT modules is 18% higher than that of PERC modules and 12% higher than that of Topcon modules.



High Flexibility

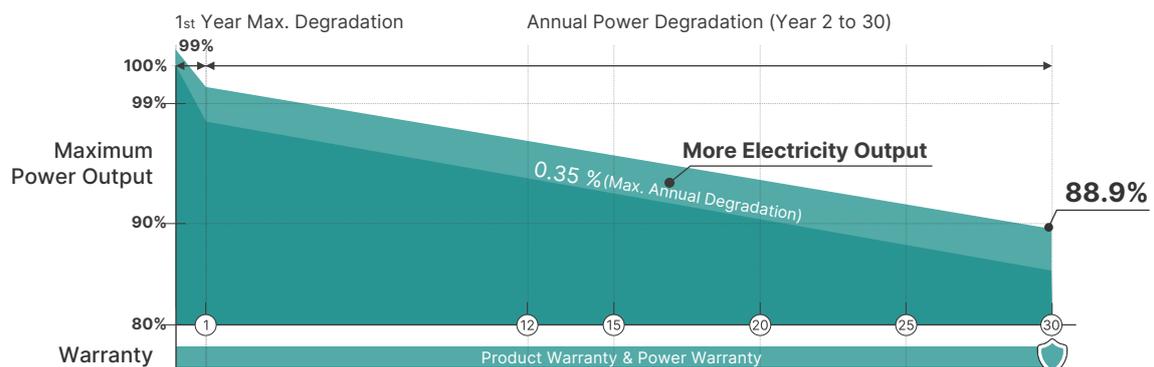
Because of the excellent cell flexibility of HJT modules, the risk of module cracks during transportation and installation is reduced. The reliability of the power station is improved.

22.87%
Maximum Efficiency

0 ~ +5W
Positive Power Tolerance

30 Years
Product Warranty

30 Years
Power Warranty



Electrical Data(STC / NOCT)

Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power Watts- P_{MAX} (Wp)*	690	578	695	583	700	588	705	592	710	597
Power Tolerance- P_{MAX} (W)	0 ~ +5									
Maximum Power Voltage- V_{MPP} (V)	42.82	40.62	43.02	40.82	43.21	41.01	43.40	41.20	43.53	41.33
Maximum Power Current- I_{MPP} (A)	16.14	14.24	16.18	14.28	16.23	14.33	16.27	14.37	16.34	14.44
Open Circuit Voltage- V_{OC} (V)	49.04	46.44	49.10	29.05	49.17	46.57	49.24	46.64	49.30	46.70
Short Circuit Current- I_{SC} (A)	17.14	15.14	17.22	46.50	17.31	15.31	17.39	15.39	17.47	15.47
Module Efficiency η m (%)	22.22	22.22	22.38	15.22	22.54	22.54	22.70	22.70	22.87	22.87

* STC: Air Mass AM1.5, Irradiance at 1000W/m², Cell Temperature 25°C / Measuring tolerance: ±3%.

* NOCT: Irradiance at 800W/m², Cell Temperature 20°C, Wind Speed 1m/s / Measuring tolerance: ±3%.

Electrical Characteristics With Different Rear Side Power Gain

10% Maximum Power- P_{MAX} (Wp)	724.50	729.75	735	740.25	745.50
10% Module Efficiency η m (%)	23.33	23.50	23.67	23.84	24.01
20% Maximum Power- P_{MAX} (Wp)	793.50	799.25	805	810.75	816.50
20% Module Efficiency η m (%)	25.55	25.74	25.92	26.11	26.30
30% Maximum Power- P_{MAX} (Wp)	862.50	868.75	875	881.25	887.50
30% Module Efficiency η m (%)	27.78	27.98	28.18	28.38	28.59

* Power Bifaciality: 90±5%

Mechanical Data

Solar Cells	Monocrystalline, HJT
Cell Orientation	132cells (6 x 22)
Module Dimensions	2384mm x 1303mm x 35mm
Weight	38.50kg
Front Glass	2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	POE
Back Glass	2.0mm, High Transmission, Heat Strengthened Glass
Frame	35mm Silver, Anodized Aluminium Alloy
J-Box	IP 68 Rated(3 Bypass Diodes)
Cables	Photovoltaic Technology Cable 4.0mm ² Portrait: N 1500mm / P 1500mm Length Can be Customized
Connector	MC4 Compatible

* Please refer to regional datasheet for specific connector.

Temperature Ratings

NOCT(Nominal Operating Cell Temperature)	43°C (±3°C)
Temperature Coefficient of P_{MAX}	-0.243% / °C
Temperature Coefficient of V_{OC}	-0.223% / °C
Temperature Coefficient of I_{SC}	0.026% / °C

* Do not connect fuse in combiner box with two or more strings in parallel connection.

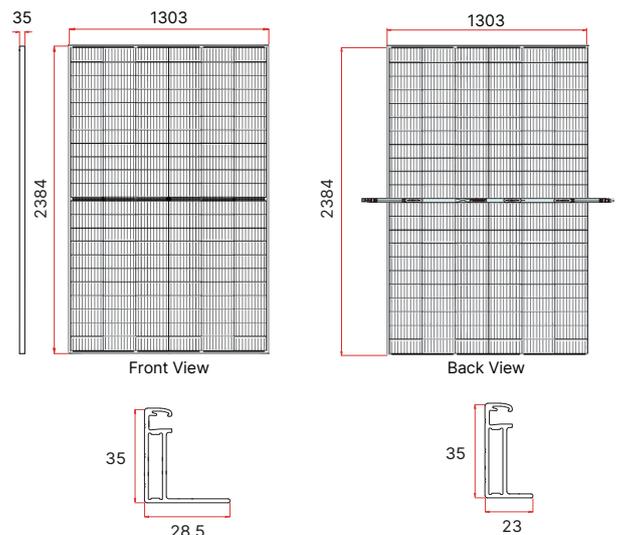
Application Environment

Operational Temperature	-40 ~ +85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	(IEC)35A
Mechanical Performance	P 5400Pa / N 2400Pa

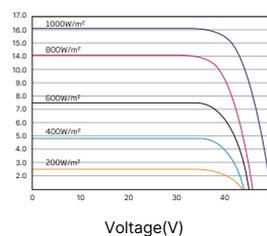
Packaging Configuration

Modules Per Pallet: 31 Pieces
Modules Per 40' Container: 558 Pieces

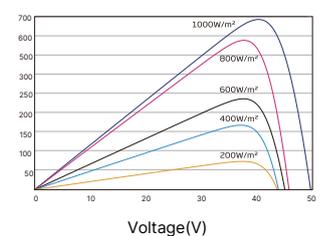
Dimensions of PV Module (mm)



I-V Curves of PV Module (690W)



P-V Curves of PV Module (690W)



Warranty

30 Years Product Warranty
30 Years Power Warranty
1% First Year Degradation
0.35% Annual Power Degradation

* Please refer to product warranty for details.