

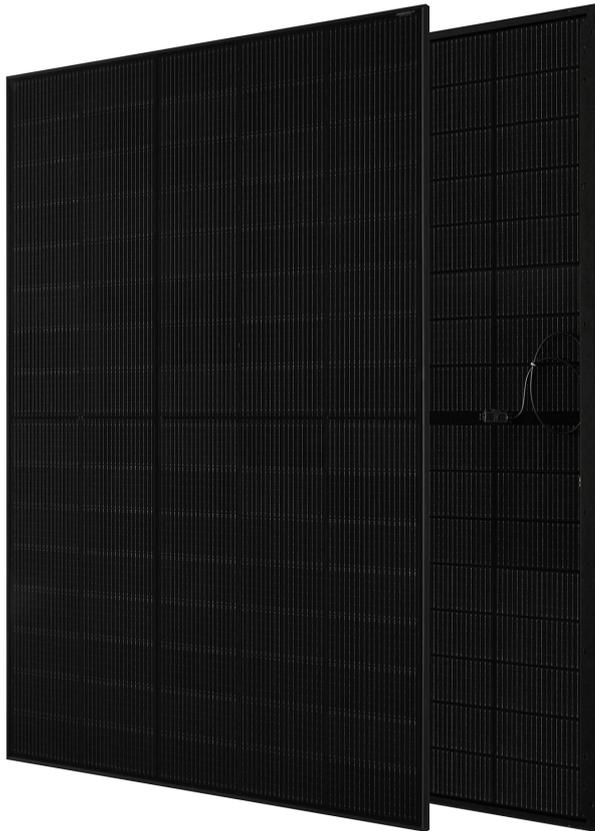
HJT Technology

1/2 Cut

Full Black 420-430W

MS(420-430)JT-40H
Mono HJT 210mm 80 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%.
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No PID and LID Effects
 HJT N-type silicon is doped with phosphorus, and the surface is TCO film, which abandons the insulating layer. Therefore, the HJT cell completely eliminates PID and LID effects.
- 
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. HJT technology is the first choice for full-black modules.
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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.
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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.

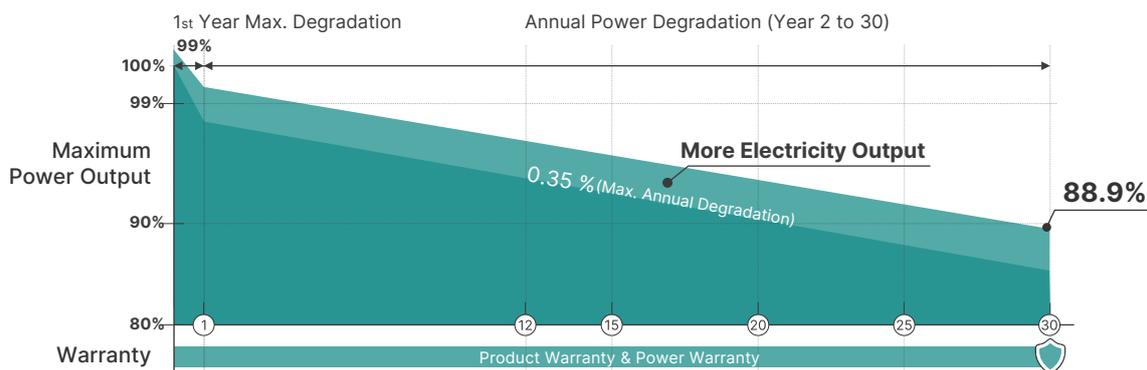


22.30%
Maximum Efficiency

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
Peak Power Watts- P_{MAX} (Wp)*	420	325	425	329	430	333
Power Tolerance- P_{MAX} (W)	0 ~ +5					
Maximum Power Voltage- V_{MPP} (V)	25.14	24.09	25.20	24.28	25.26	24.50
Maximum Power Current- I_{MPP} (A)	16.71	13.49	16.86	13.55	17.02	13.59
Open Circuit Voltage- V_{OC} (V)	29.86	29.05	29.93	29.31	30.00	29.56
Short Circuit Current- I_{SC} (A)	17.63	14.15	17.75	14.20	17.92	14.25
Module Efficiency η_m (%)	21.70	21.70	22.00	22.00	22.30	22.30

* 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)	441	446.25	451.5
10% Module Efficiency η_m (%)	22.79	23.10	23.42
20% Maximum Power- P_{MAX} (Wp)	483	488.75	494.50
20% Module Efficiency η_m (%)	24.96	25.30	25.65
30% Maximum Power- P_{MAX} (Wp)	525	531.25	537.5
30% Module Efficiency η_m (%)	27.13	27.50	27.88

* Power Bifaciality: 90±5%

Mechanical Data

Solar Cells	Monocrystalline, HJT
Cell Orientation	80cells (5 x 16)
Module Dimensions	1760mm x 1098mm x 30mm
Weight	22.00kg
Front Glass	2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	POE
Back Glass	1.6mm, High Transmission, Heat Strengthened Glass
Frame	30mm Black, Anodized Aluminium Alloy
J-Box	IP 68 Rated(3 Bypass Diodes)
Cables	Photovoltaic Technology Cable 4.0mm ² Portrait: N 1000mm / P 1000mm 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}	-0.24% / °C
Temperature Coefficient of V_{OC}	-0.22% / °C
Temperature Coefficient of I_{SC}	0.047% / °C

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

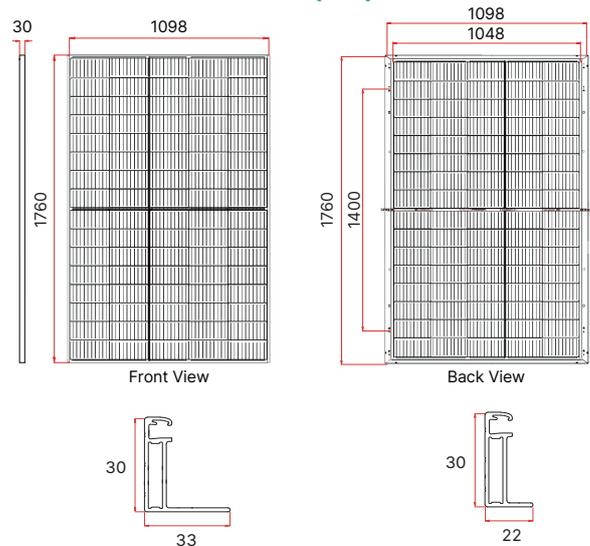
Application Environment

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

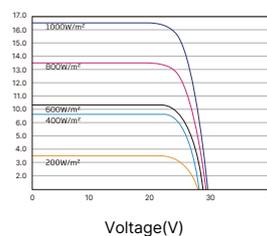
Packaging Configuration

Modules Per Pallet: 36 Pieces
Modules Per 40' Container: 936 Pieces

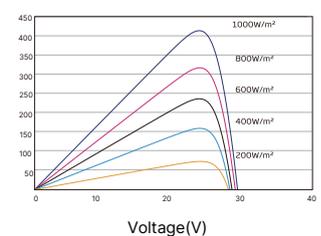
Dimensions of PV Module (mm)



I-V Curves of PV Module (420W)



P-V Curves of PV Module (420W)



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.