

MT6N

630-650W

N-type HJT Bifacial Half Cell
Double-glass Solar Module

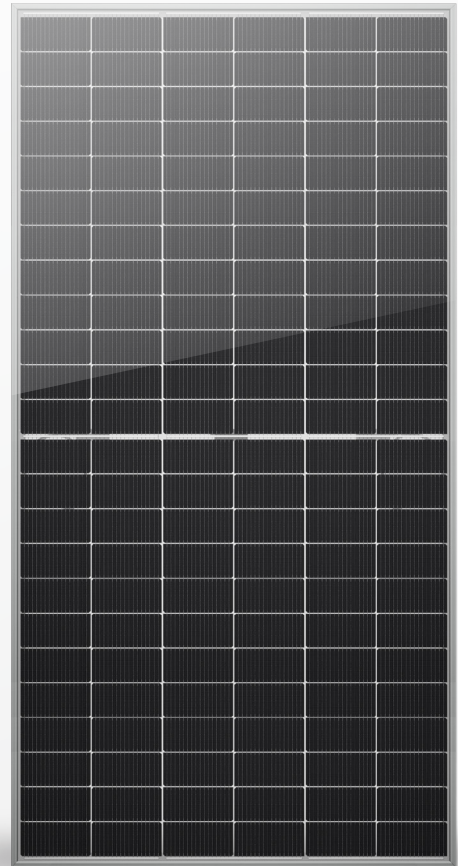
Qualidade Garantida

25-Year Warranty for Materials and Processing

30-Year Warranty for Extra Linear Power Output

22.97%

Max. Module Efficiency



MS-60HB

HJT 2.0 Technology

Combining gettering process and single-side uc-Si technology to ensure higher cell efficiency and higher module power.

-0.26%/°C Pmax temperature coefficient

More stable power generation performance and even better in hot climate.

SMBB design with Half-Cut Technology

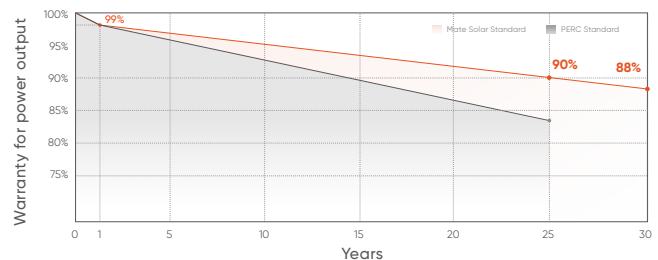
Shorter current transmission distance, less resistive loss and higher cell efficiency.

Up to 90% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.

Sealing with PIB based sealant

Stronger water resistance, greater air impermeability to extent module lifespan.



* Please refer to Mate Solar standard warranty for details

Quality Management System And Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt).

IEC62716 (Ammonia), IEC60068-2-68(Sand).

ISO 9001:2015/quality management system.

ISO 14001:2015/environmental management system.

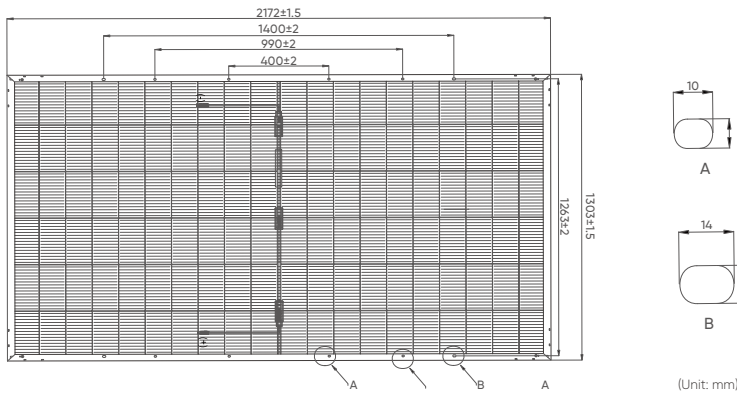
ISO 45001:2018/occupation health safety management system

ISO 50001:2011/energy management system.

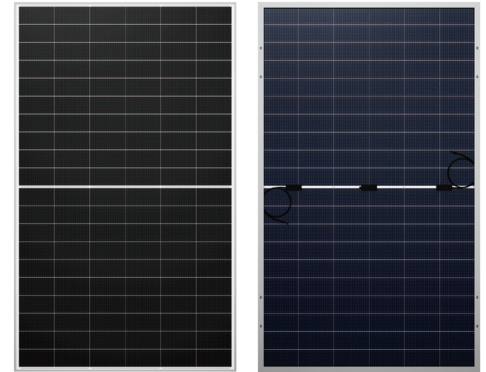
IEC TS 62941-2016/PV industry quality management system .



Drawings



Product Image



Mechanical Parameters

Solar Cells	HJT Mono 210×105mm
No. of Cells	120 (6×20)
Dimensions	2172 × 1303 × 35mm
Weight	35.3kg
Glass Thickness	(F) 2.0mm anti-reflective solar glass (B) 2.0mm solar glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Output Cables	4mm ² , 300mm in length, length can be customized / UV resistant
Connectors	MC4 original / MC4 compatible
Mechanical load test	5400Pa
Packaging	31pcs/box, 558pcs/40'HQ

Operating Characteristics

Operating Module Temperature	-40°C ~ +85°C
Maximum System Voltage	DC 1500 (IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	0~+5W
Bifaciality	85%±5%

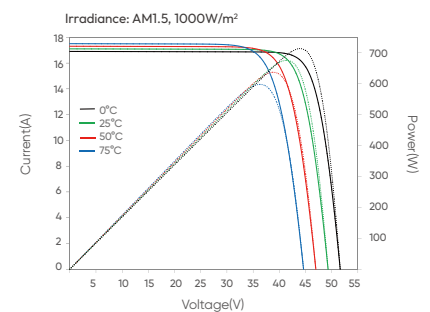
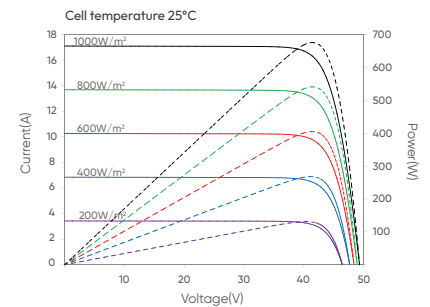
Temperature Characteristics

Nominal Operating Temperature (NMOT)	44±2°C
Temperature Coefficient of Pmax	-0.26%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.04%/°C

Electrical Parameters (STC*)

Module Type: MS-60HB	630	635	640	645	650
Maximum power (Pmax/W)	630	635	640	645	650
Open Circuit Voltage (Voc/V)	45.30	45.48	45.65	45.82	45.99
Short Circuit Current (Isc/A)	17.37	17.43	17.49	17.55	17.61
Voltage at Maximum power (Vmpp/V)	38.03	38.19	38.35	38.51	38.67
Current Maximum Power (Impp/A)	16.57	16.63	16.69	16.75	16.81
MODULE EFFICIENCY (%)	22.26	22.44	22.61	22.79	22.97

I-V Curve



Electrical Characteristics (NMOT*)

5%	Maximum power (Pmax/W)	662	667	672	677	683
	Module Efficiency STC (%)	23.37	23.56	23.74	23.93	24.12
15%	Maximum power (Pmax/W)	725	730	736	742	748
	Module Efficiency STC (%)	25.60	25.80	26.01	26.21	26.41
25%	Maximum Power (Pmax/W)	788	794	800	806	813
	Module Efficiency STC (%)	27.83	28.05	28.27	28.49	28.71

1. Standard Test Conditions [STC]: irradiance 1000W/m²; AM 1.5; ambient temperature 25°C according to EN 60904-3;
 2. Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%.