

MT5N

585-605W

N-type HJT Bifacial Dual Glass
Solar Module

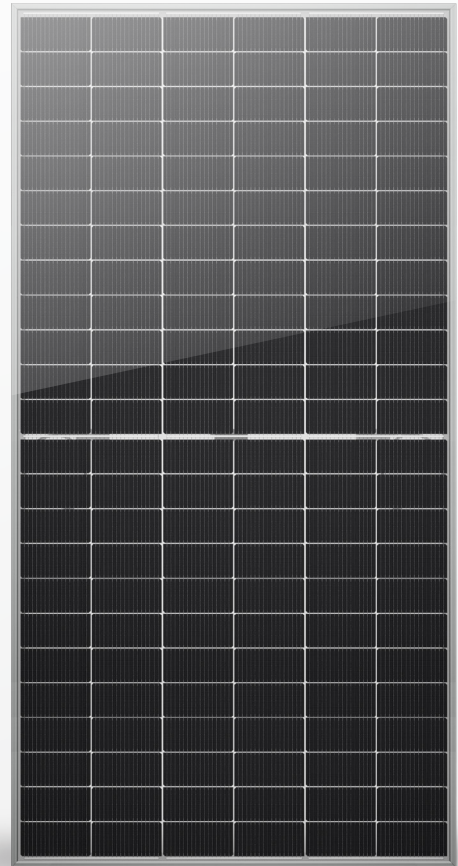
Qualidade Garantida

25-Year Warranty for Materials and Processing

30-Year Warranty for Extra Linear Power Output

23.41%

Max. Module Efficiency



MS-72HB

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

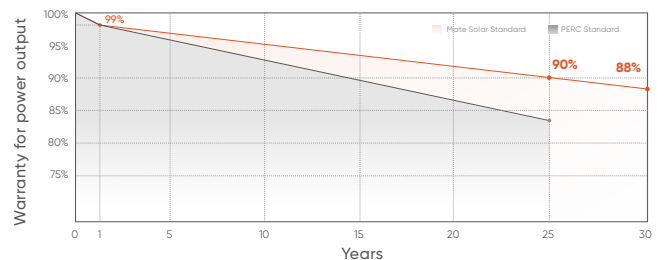
Shorter current transmission distance, less resistive loss and higher cell efficiency.

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.

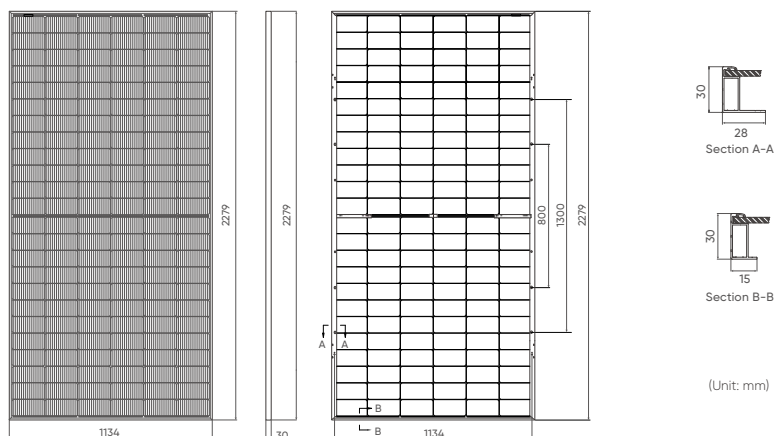
ISO 45001:2018/occupation health safety management system

ISO 50001:2011/energy management system.

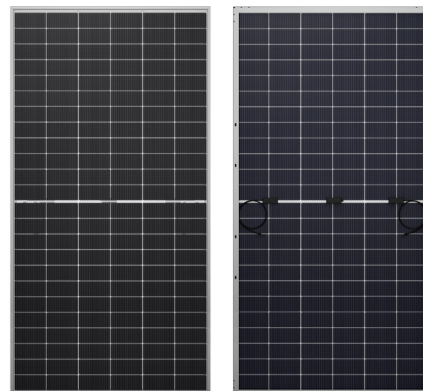
IEC TS 62941-2016/PV industry quality management system .



Drawings



Product Image



Mechanical Parameters

Solar Cells	N-type HJT
No. of Cells	144 (6×24)
Dimensions	2279 × 1134 × 30mm
Weight	31.5kg
Glass	Front: 2.0mm coated semi-tempered glass; Back: 2.0mm semi-tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 by pass diodes)
Output Cables	4mm ² , 300mm (+) / 300mm (-), Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa
Packaging	36pcs/box, 180pcs/20'GP, 720pcs/40'HQ

Operating Characteristics

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

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 Characteristics (STC*)

Module Type: MS-72HB	585	590	595	600	605
Maximum power (Pmax/W)	585	590	595	600	605
Open Circuit Voltage (Voc/V)	54.12	54.31	54.50	54.70	54.89
Short Circuit Current (Isc/A)	13.40	13.45	13.50	13.55	13.60
Voltage at Maximum power (Vmpp/V)	45.21	45.42	45.63	45.84	46.05
Current Maximum Power (Impp/A)	12.94	12.99	13.04	13.09	13.14
MODULE EFFICIENCY (%)	22.64	22.83	23.02	23.22	23.41

Electrical Characteristics (NMOT*)

5%	Maximum power (Pmax/W)	614	620	625	630	635
	Module Efficiency STC (%)	23.77	23.97	24.17	24.38	24.58
15%	Maximum power (Pmax/W)	673	679	684	690	696
	Module Efficiency STC (%)	26.03	26.25	26.48	26.70	26.92
25%	Maximum Power (Pmax/W)	731	738	744	750	756
	Module Efficiency STC (%)	28.29	28.54	28.78	29.02	29.26

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%.

I-V CURVE

