

MT5N

500-520W

MS520M-54HD

N-Type HJT Bifacial
Double-glass Solar Module

Qualidade Garantida

25-Year Warranty for Materials and Processing

30-Year Warranty for Extra Linear Power Output

23.40%

Max. Module Efficiency



HJT 3.0 Technology

Combining gettering process and double-sided $\mu\text{c-Si}$ to maximize cell efficiency and module power.

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.

Higher reliability

Industrial leading product and performance warranty, ensuring modules' consistent outstanding performance.

High customer value

Higher container space utilization electively reduces the freight cost

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.

Quality Guarantee



Mechanical Characteristics

Solar Cells	HJT Mono 182 x 105mm
No. of Cells	108 (6x18)
Dimensions	1960 x 1134 x 30mm
Weight	27.6kg
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 , 300 ² mm in length, length can be customized/UV resistant
Connectors	MC4 original /MC4 compatible
Mechanical Load Test	5400Pa
Packaging	36pcs/box,792pcs/40'HQ

Operating Parameters

Operational Temperature	-40°C~+85°C
Power Output Tolerance	0~3%
Voc and Isc Tolerance	±3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	44±2°C

Temperature Ratings (NOCT*)

Temperature Coefficient of Isc	+0.040%/°C
Temperature Coefficient of Voc	-0.220%/C
Temperature Coefficient of Pmax	-0.260%/C

Electrical Parameters (STC*)

Module Type: MS520M-54HD	500	505	510	515	520
Maximum Power (Pmax/W)	500	505	510	515	520
Open Circuit Voltage (Voc/V)	41.67	41.82	41.97	42.12	42.16
Short Circuit Current (Isc/A)	15.42	15.47	15.52	15.57	16.02
Voltage at Maximum Power (Vmp/V)	34.36	34.49	34.61	34.74	34.87
Current at Maximum Power (Imp/A)	14.56	14.65	14.74	14.83	14.92
Module Efficiency (%)	22.50	22.72	22.95	23.17	23.40

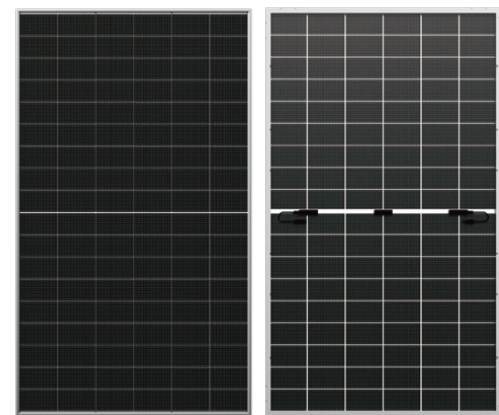
*STC: Irradiance 1000 W/m², cell temperature 25°C, AM=1.5. Tolerance of Pmax is within ±3%.

Electrical Parameters (BSTC**)

Maximum Power (Pmax/W)	560	565	570	575	580
Open Circuit Voltage (Voc/V)	41.67	41.82	41.97	42.12	42.16
Short Circuit Current (Isc/A)	17.19	17.25	17.30	17.36	17.86
Voltage at Maximum Power (Vmp/V)	34.36	34.49	34.61	34.74	34.87
Current at Maximum Power (Imp/A)	16.30	16.39	16.47	16.56	16.64

**BSTC: Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25°C

Product Image



Drawings

