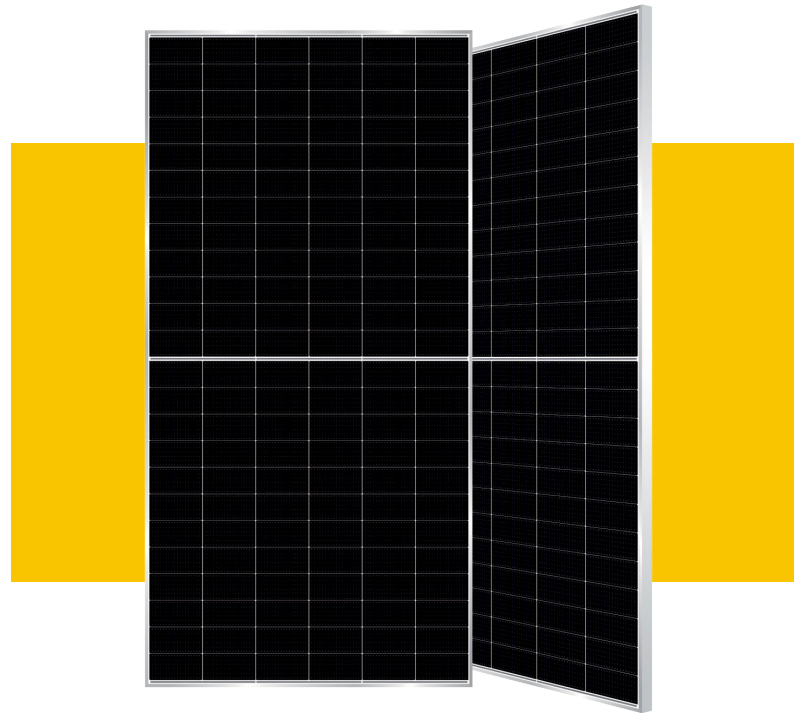


MSMDxxxM10-HJT144DS

580-600W

144-cell Bifacial HJT Half Cell
Double-glass Solar Module



Product Advantages



HJT 3.0

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



-0.26%/°C Pmax temperature coefficient

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



Small Chamfer Design

Bigger power generation area on the solar cell, increasing 1% cell power of single piece.



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.



Higher reliability

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

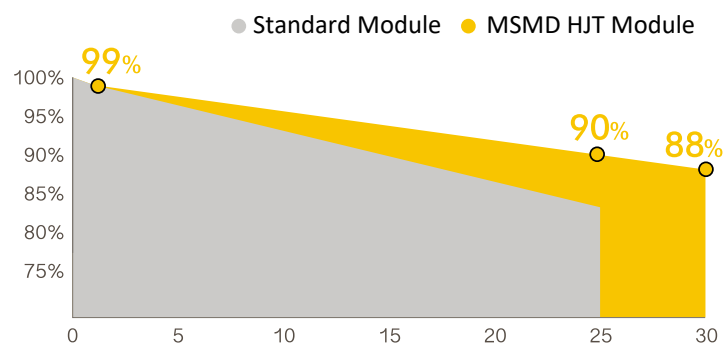


Suitable for Utility Solar projects

23.23%
Module efficiency

600W
Highest power output

Performance Warranty



-1.00%
First year power degradation

-0.375%
Annual degradation

15 Years
Materials and workmanship warranty

30 Years
Linear power warranty

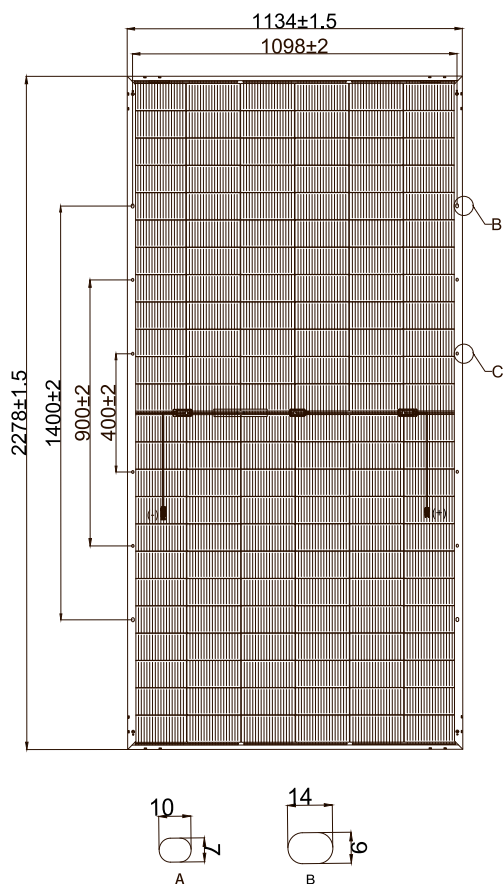
Product Certification



MSMDxxxM10-HJT144DS

Engineering Drawings

Unit: mm



Electrical Characteristics (STC*)

MSMDxxxM10-HJT144DS	580	585	590	595	600
Maximum Power (Pmax)	580W	585W	590W	595W	600W
Module Efficiency (%)	22.45%	22.65%	22.84%	23.03%	23.23%
Optimum Operating Voltage (Vmp)	45.00V	45.21V	45.42V	45.63V	45.84V
Optimum Operating Current (Imp)	12.89A	12.94A	12.99A	13.04A	13.09A
Open Circuit Voltage (Voc)	53.92V	54.12V	54.31V	54.50V	54.70V
Short Circuit Current (Isc)	13.35A	13.40A	13.45A	13.50A	13.55A
Operating Module Temperature	-40 to +85 °C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	25A				
Power Tolerance	0~+5W				
Bifaciality	85 ± 5%				

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

BSTC**

Maximum Power (Pmax)	640W	645W	650W	655W	660W
Optimum Operating Voltage (Vmp)	45.00V	45.21V	45.42V	45.63V	45.84V
Optimum Operating Current (Imp)	14.23A	14.27A	14.32A	14.36A	14.40A
Open Circuit Voltage (Voc)	53.92V	54.12V	54.31V	54.50V	54.70V
Short Circuit Current (Isc)	14.73A	14.77A	14.82A	14.86A	14.91A

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

Mechanical Characteristics

Cell Type	HJT Mono 182×91.75mm
Cell Connection	144 (6×24)
Module Dimension	2278×1134×30 mm
Weight	32 kg
Junction Box	IP68
Output Cable	4mm ² , 300mm in length, length can be customized / UV resistant
Connectors Type	MC4 original / MC4 compatible
Frame	Anodised aluminum alloy
Front Load	5400 Pa
Rear Load	2400 Pa
Glass Thickness	Double glass, 2.0mm

Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44 °C ± 2 °C
Temperature Coefficiency of Pmax	-0.26%/°C
Temperature Coefficiency of Voc	-0.24%/°C
Temperature Coefficiency of Isc	0.04%/°C

Safety & Warranty

Safety Class	Class II
Product Warranty	15 yrs Workmanship
Performance Warranty	30 yrs Linear Warranty*

* 1st year 99%, after 2nd year 0.375% annual degradation to year 30.

Shipping Configurations

Container Length	HC
Pallets Per Container	40'
Modules Per Pallet (pcs)	20
Modules Per Container (pcs)	36
Modules Per Container (pcs)	720