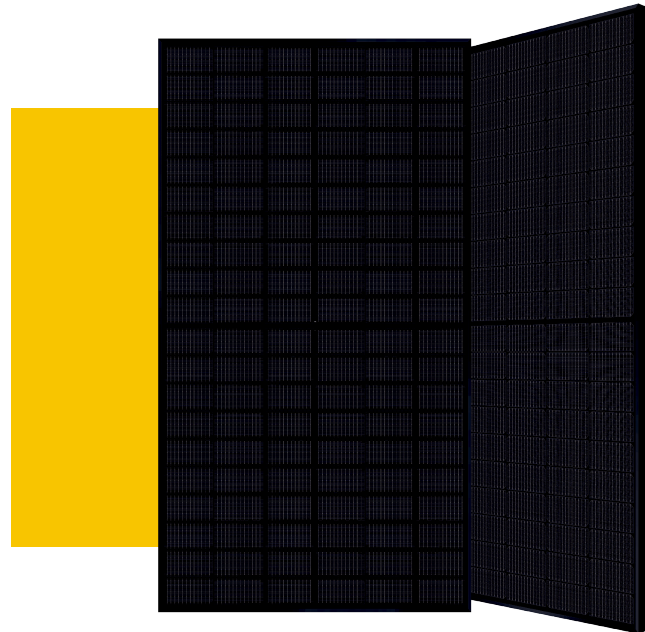


# MSMDxxxM6-HJT120DSB

## 380-400W

120-cell Bifacial full black HJT HCC  
Solar Module



### Product Advantages

**22%** Industrial Benchmark  
Up to 22% efficiency for black module

**SMBB** SMBB HJT Half-Cut Technology  
Unique 12BB HJT Cell with Half-cut design

**Aesthetical Design**  
Black but transparent outfit, elegant for any rooftop

**Maximum Durability & Reliability**  
15/30 years warranty, long-term high performance ensur

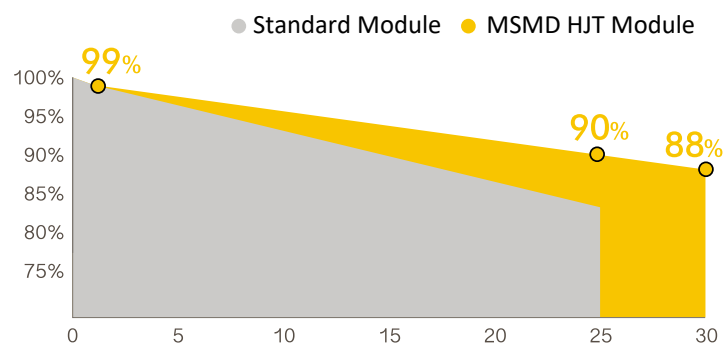
**22.0%**

Module efficiency

**400W**

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

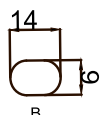
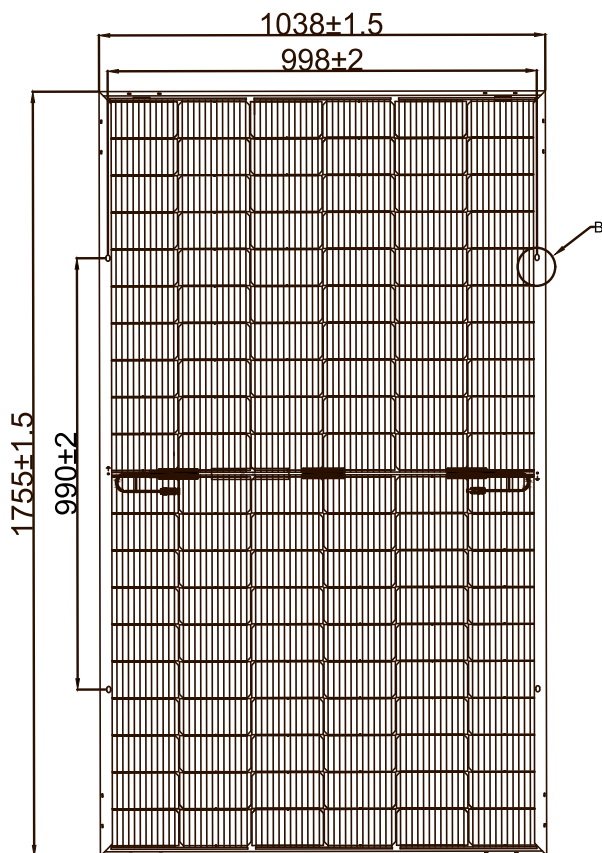
### Product Certification



# MSMDxxxM6-HJT120DSB

## Engineering Drawings

Unit: mm



## Electrical Characteristics (STC\*)

MSMDxxxM6-HJT120DSB	380	385	390	395	400
Maximum Power (Pmax)	380W	385W	390W	395W	400W
Module Efficiency (%)	20.9%	21.1%	21.4%	21.7%	22.0%
Optimum Operating Voltage (Vmp)	37.09V	37.15V	37.23V	37.32V	37.43V
Optimum Operating Current (Imp)	10.27A	10.37A	10.49A	10.60A	10.70A
Open Circuit Voltage (Voc)	44.47V	44.57V	44.67V	44.77V	44.87V
Short Circuit Current (Isc)	10.72A	10.82A	10.92A	11.02A	11.12A
Operating Module Temperature	-40 to +85 C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	20A				
Power Tolerance	0~+5W				
Bifaciality	90% ± 5%				

\*STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25 C, AM=1.5. Tolerance of Pmax is within +/- 3%.

## BSTC\*\*

Maximum Power (Pmax)	425W	430W	435W	440W	445W
Optimum Operating Voltage (Vmp)	38.49V	38.70V	38.87V	39.18V	39.50V
Optimum Operating Current (Imp)	11.13A	11.18A	11.22A	11.28A	11.32A
Open Circuit Voltage (Voc)	45.61V	45.88V	46.21V	46.84V	47.54V
Short Circuit Current (Isc)	11.54A	11.58A	11.61A	11.64A	11.66A

\*\*BSTC: Front side irradiation 1000W/m<sup>2</sup>, back side reflection irradiation 135W/m<sup>2</sup>, AM=1.5, ambient temperature 25 C.

## Mechanical Characteristics

Cell Type	HJT Mono 166 x 83 mm
Cell Connection	120 (60 × 2)
Module Dimension	1755 x 1038 × 30 mm
Weight	23.5 kg
Junction Box	IP67 / IP68
Output Cable	4mm <sup>2</sup> ; 1200mm in length, length can be customized / UV Resistant
Connectors Type	MC4 Compatible
Frame	Anodised Aluminum Alloy
Encapsulant	POE
Front Load	5400 Pa
Rear Load	2400 Pa
Glass Thickness	(F) 2.0mm Anti-reflective surface Solar glass   (B) 2.0mm Solar glass

## 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	Fire Class A
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

	HC	GP
Container Length	40'	20'
Pallets Per Container	26	6
Modules Per Pallet (pcs)	36	36
Modules Per Container (pcs)	936	216