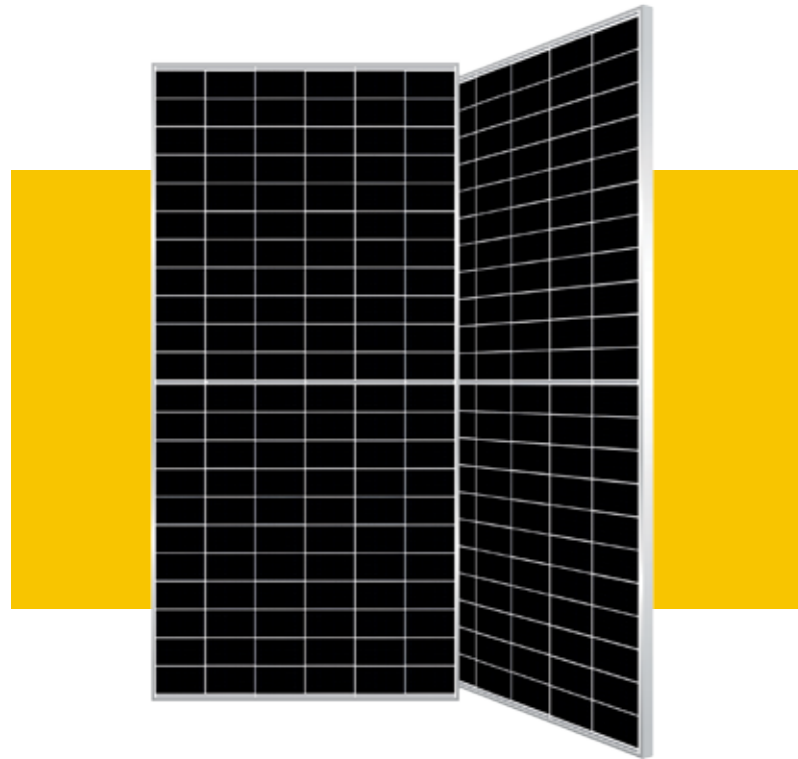


# MSMDxxxG12-HJT132DS

# 680-700W

132-cell Bifacial HJT Half Cell Solar Module



## Product Advantages

**HJT**

Heterojunction  
Technology

**G12**

210mm Cell

**22.53%**

Module  
efficiency

**700W**

Highest  
power output

**SMBB**

SMBB Half-Cut  
Cell Technology



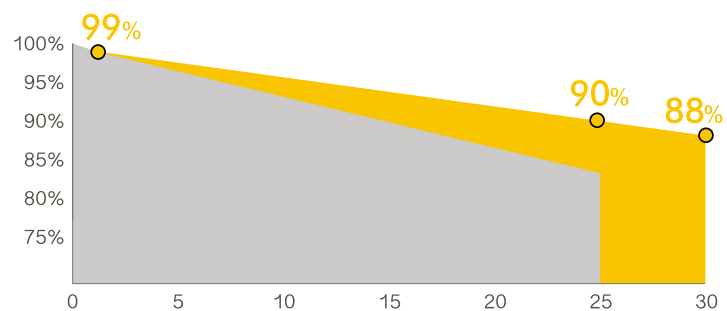
Up to 85% Bifaciality



Lower BoS Cost Ensure  
A Better LCOE,  
Shorter Payback Time

## Performance Warranty

● Standard Module ● MSMD HJT Module



**-1.00%**

First year power degradation

**-0.375%**

Annual degradation

**15**  
Years

Materials and  
workmanship warranty

**30**  
Years

Linear power  
warranty

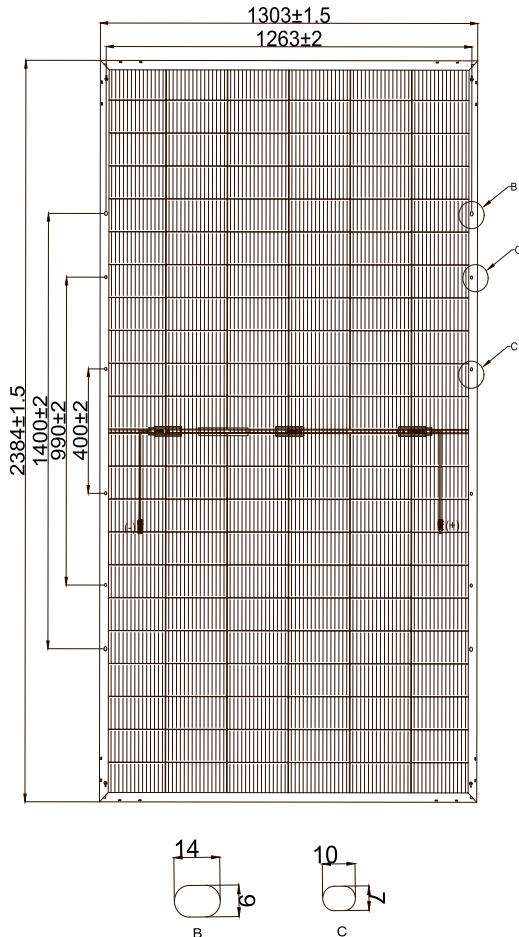
## Product Certification



# MSMDxxxG12-HJT132DS

## Engineering Drawings

Unit: mm



## 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.

## Electrical Characteristics (STC\*)

MSMDxxxG12-HJT132DS	680	685	690	695	700
Maximum Power (Pmax)	680W	685W	690W	695W	700W
Module Efficiency (%)	21.89%	22.05%	22.21%	22.37%	22.53%
Optimum Operating Voltage (Vmp)	41.49V	41.65V	41.80V	41.95V	42.10V
Optimum Operating Current (Imp)	16.39A	16.45A	16.51A	16.57A	16.63A
Open Circuit Voltage (Voc)	49.50V	49.66V	49.82V	49.98V	50.13V
Short Circuit Current (Isc)	17.19A	17.25A	17.31A	17.37A	17.43A
Operating Module Temperature	-40 to +85 °C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	30A				
Power Tolerance	0~+5W				
Bifaciality	80% ± 5%				

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

## BSTC\*\*

	750W	756W	761W	767W	772W
Maximum Power (Pmax)	750W	756W	761W	767W	772W
Optimum Operating Voltage (Vmp)	41.49V	41.65V	41.80V	41.95V	42.10V
Optimum Operating Current (Imp)	18.08A	18.16A	18.21A	18.29A	18.34A
Open Circuit Voltage (Voc)	49.50V	49.66V	49.82V	49.98V	50.13V
Short Circuit Current (Isc)	18.96A	19.04A	19.09A	19.17A	19.22A

\*\*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 210 × 105mm
Cell Connection	132 (66 × 2)
Module Dimension	2384 × 1303 × 35 mm
Weight	38.7 kg
Junction Box	IP67 / IP68
Output Cable	4mm <sup>2</sup> , 1400mm 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

## Shipping Configurations

	HC
Container Length	40'
Pallets Per Container	17
Modules Per Pallet (pcs)	31
Modules Per Container (pcs)	527