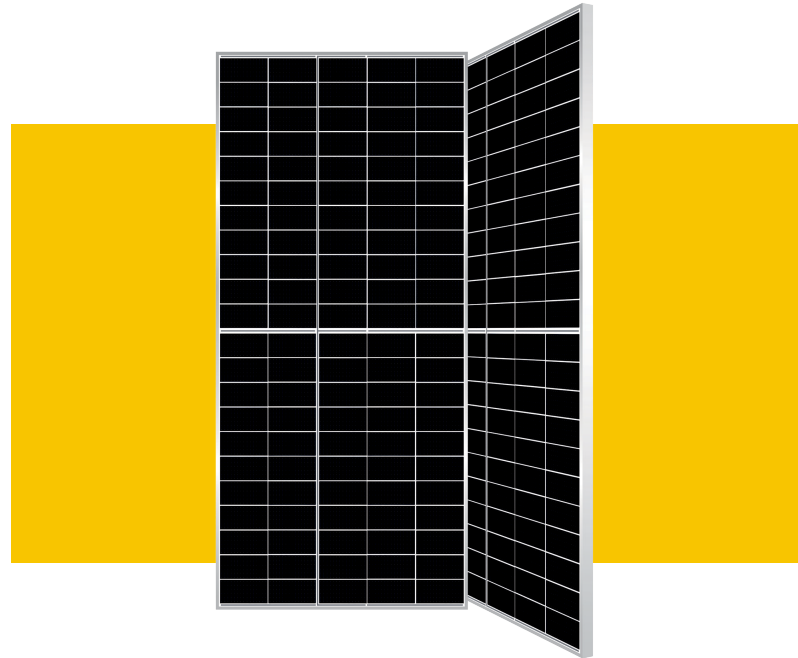


MSMDxxxG12-HJT110DS
560-580W
110-cell Bifacial HJT Half Cell Solar Module

Product Advantages
HJT

 Heterojunction
Technology

G12

210mm Cell

21.2%

 Module
efficiency

580W

 Highest
power output

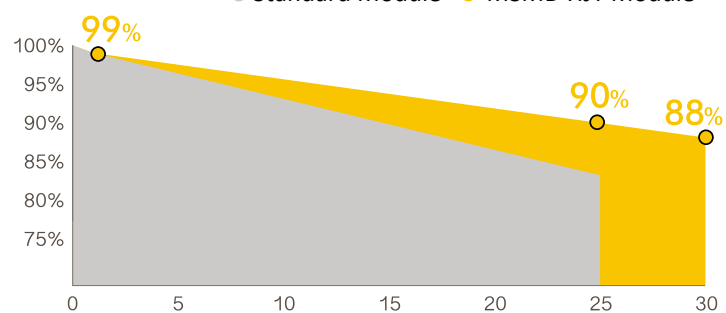
 SMBB Half-Cut
Cell Technology


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

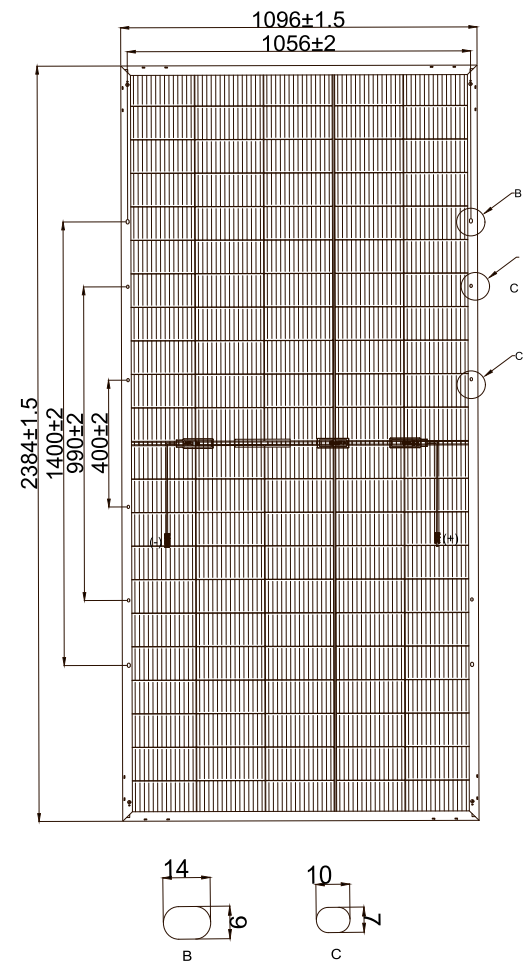
 Linear power
warranty

Product Certification


MSMDxxxG12-HJT110DS

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-HJT110DS	560	565	570	575	580
Maximum Power (Pmax)	560W	565W	570W	575W	580W
Module Efficiency (%)	21.4%	21.6%	21.8%	22.0%	22.2%
Optimum Operating Voltage (Vmp)	34.17V	34.35V	34.53V	34.71V	34.88V
Optimum Operating Current (Imp)	16.39A	16.45A	16.51A	16.57A	16.63A
Open Circuit Voltage (Voc)	40.77V	40.96V	41.16V	41.35V	41.54V
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/m², cell temperature 25 °C, AM=1.5. Tolerance of Pmax is within +/- 3%.

BSTC**

Maximum Power (Pmax)	618W	623W	629W	634W	640W
Optimum Operating Voltage (Vmp)	34.17V	34.35V	34.53V	34.71V	34.88V
Optimum Operating Current (Imp)	18.09A	18.14A	18.22A	18.27A	18.35A
Open Circuit Voltage (Voc)	40.77V	40.96V	41.16V	41.35V	41.54V
Short Circuit Current (Isc)	18.97A	19.02A	19.10A	19.15A	19.23A

**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 210 × 105mm
Cell Connection	110 (55 × 2)
Module Dimension	2384 × 1096 × 35 mm
Weight	32.3 kg
Junction Box	IP67 / IP68
Output Cable	4mm², 200mm 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

Container Length	HC
Pallets Per Container	40'
Modules Per Pallet (pcs)	20
Modules Per Container (pcs)	31
	620