

**BiMAX 6N**

# 625-645W

## SP645M-60H

Bifacial HJT Half Cell Double-glass Solar Module

### HJT 2.0 Technology

Combining gettering process and single-side  $\mu\text{-Si}$  technology to ensure higher cell efficiency and higher module power.

### -0.26%/°C Pmax temperature coefficient

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

### 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.

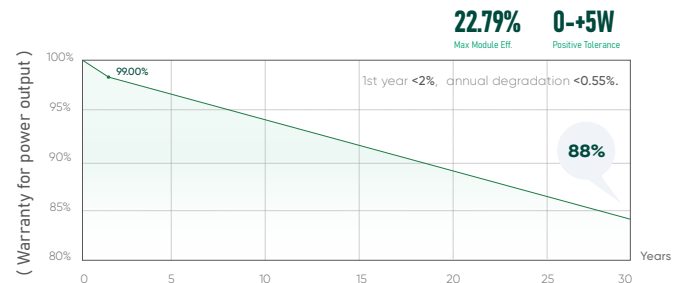
### Sealing with PIB based sealant

Stronger water resistance, greater air impermeability to extend module lifespan.

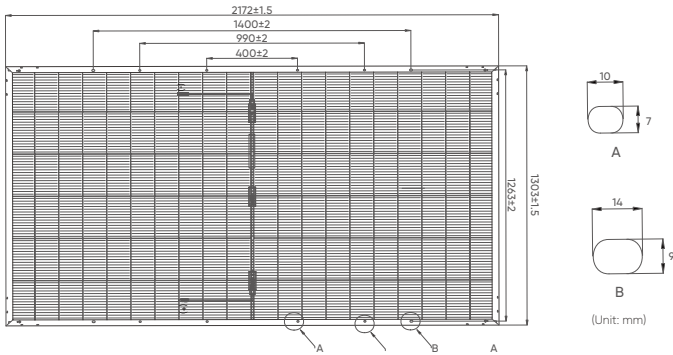
### Quality Management System and Product Certification

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



## Design(mm)



Solar Cells	HJT Mono 210×105mm
No. of Cells	120 (6×20)
Dimensions	2172 × 1303 × 35mm
Weight	35.3kg
Glass Thickness	(F) 2.0mm anti-reflective solar glass   (B) 2.0mm solar glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Output Cables	4mm <sup>2</sup> , 300mm in length, length can be customized / UV resistant
Connectors	MC4 original /MC4 compatible
Mechanical load test	5400Pa
Packaging	31pcs/box, 558pcs/40'HQ

## Temperature Characteristics

NMOT (Nominal Module Operating Temperature)	44°C(±2°C)
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Pmax	-0.26%/°C

## Operating Characteristics

Operating Module Temperature	-40°C ~ +85°C
Maximum System Voltage	DC 1500 (IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	0~+5W
Bifaciality	85%±5%

## Electrical Parameters (STC\*)

Module Type: SP645M-60H	625	630	635	640	645
Maximum Power (Pmax/W)	625	630	635	640	645
Module Efficiency (%)	22.08	22.26	22.44	22.61	22.79
Optimum Operating Voltage (Vmp/V)	37.86	38.03	38.19	38.35	38.51
Optimum Operating Current (Imp/A)	16.51	16.57	16.63	16.69	16.75
Open Circuit Voltage (Voc/V)	45.13	45.30	45.48	45.65	45.82
Short Circuit Current (Isc/A)	17.31	17.37	17.43	17.49	17.55

## BSTC\*

	690	695	700	705	710
Maximum Power (Pmax/W)	690	695	700	705	710
Optimum Operating Voltage (Vmp/V)	37.86	38.03	38.19	38.35	38.51
Optimum Operating Current (Imp/A)	18.23	18.28	18.33	18.39	18.44
Open Circuit Voltage (Voc/V)	45.13	45.30	45.48	45.65	45.82
Short Circuit Current (Isc/A)	19.11	19.16	19.21	19.27	19.32

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

\*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.

## I-V Curve

