

# BiMAX 6R

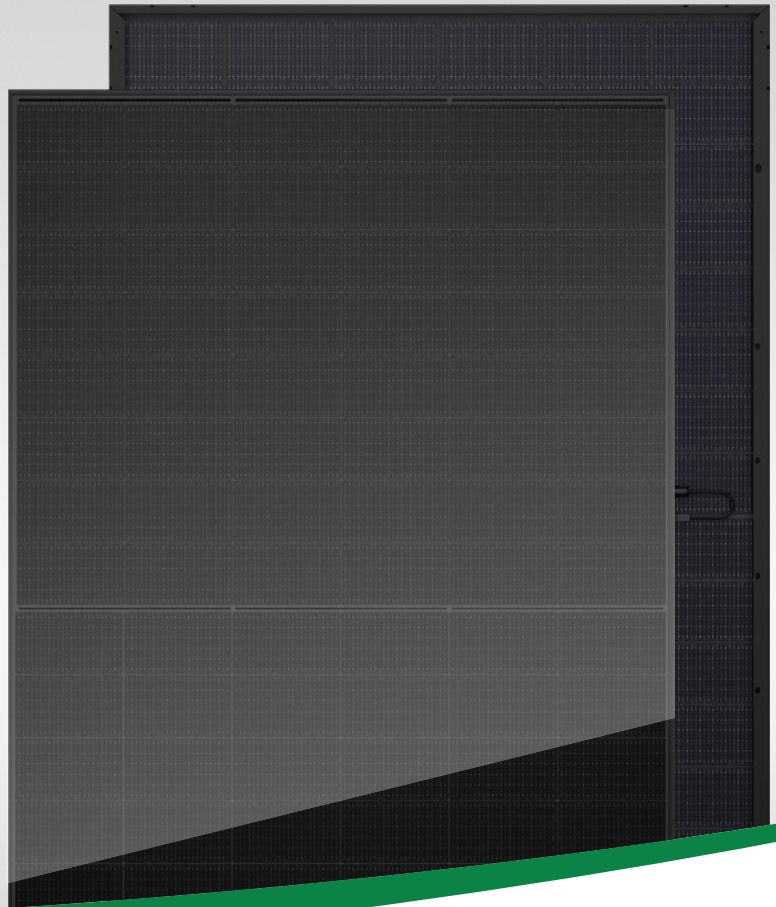
# 450~470W

210x182mm16BB 96Cells All Black  
Double Glass Bifacial N Type Mono  
Half Cell PV Module Series

**N TYPE**

23.52%

Max. Module Efficiency



## Sunpal N Type Linear Warranty



SMBB Technology  
Half Cut N Type Cell



High Energy  
Performance



100% Inspection  
30years Guarantee



Fire Class A

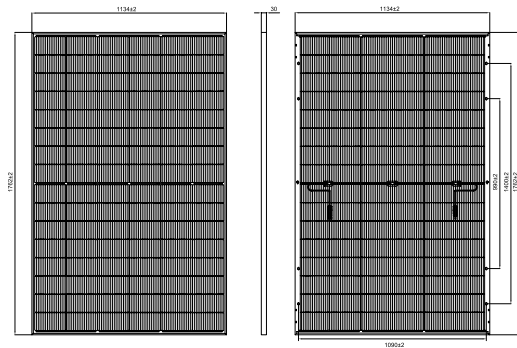


Strengthened  
Mechanical Load



Advanced Bifacial  
Efficiency

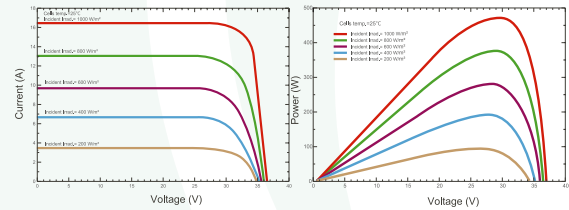
# BiMAX 6R 450~470W



All Dimensions in mm

The above drawing is a graphical representation of the product,

Current-Voltage & Power-Voltage Curves(SP470M-48H)



## Electrical Characteristics(STC/NMOT)

Module Type	SP450M-48H		SP455M-48H		SP460M-48H		SP465M-48H		SP470M-48H	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Test Conditions	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power- Pmax(W)	450	339.8	455	343.5	460	347.4	465	351.2	470	355.0
Open Circuit Voltage - Voc(V)	35.64	33.92	35.80	34.11	35.97	34.30	36.14	34.49	36.31	34.68
Short- Circuit Current - Isc(A)	16.06	12.91	16.14	12.96	16.23	13.01	16.32	13.06	16.40	13.11
Voltage at Pmax -Vmp(V)	29.63	27.83	29.76	27.99	29.89	28.15	30.03	28.31	30.16	28.47
Current at Pmax -Imp(A)	15.19	12.21	15.29	12.27	15.39	12.34	15.49	12.40	15.58	12.47
Module Efficiency -nm(%)	22.52	/	22.77	/	23.02	/	23.27	/	23.52	/

Power Tolerance(W)

(0, +5W)

Maximum System Voltage(V)

1500Vdc (IEC/UL)

Maximum Series Fuse Rating (A)

30A

\*STC :Irradiance 1000W/m<sup>2</sup>,Cell Temperature 25°C, Air Mass 1.5

\*NMOT : Irradiance 800W/m<sup>2</sup>,Ambient Temperature 20°C, Air Mass1.5, Wind Speed 1m/s

\*Measurement tolerance: ±3% \*Power binning up to: +3%

## Mechanical Specifications

External Dimensions	1762x1134x30mm
Weight	21.5kg
Solar Cells	N-Type 16BB 182x105mm (2x48pcs)
Front Glass	AR Coated 1.6+1.6mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4.0mm <sup>2</sup> ,1200mm(+),1200mm(-), length can be customized
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max.2400Pa

## Temperature characteristics

Pmax Temperature Coefficient	-0.290%/°C
Voc Temperature Coefficient	-0.250%/°C
Isc Temperature Coefficient	+0.045%/°C
Operating Temperature Range	-40~+85°C
Nominal Operating Cell Temperature(NOCT)	45±2°C

## Bifacial Output Rear Side Power Gain

\*Take SP470M-48H as an example.

Power Gain	5%	10%	20%
Maximum Power- Pmax(W)	493.5	517.0	564.0
Open Circuit Voltage - Voc(V)	36.31	36.31	36.31
Short- Circuit Current - Isc(A)	17.22	18.04	19.68
Voltage at Pmax -Vmp(V)	30.16	30.16	30.16
Current at Pmax -Imp(A)	16.36	17.14	18.70

## Packing configuration

Pallet Dimensions	1790x1140x1254mm		
Ways of Transport	40'HQ	13.5m Flatbed Truck	17.5m Flatbed Truck
Pieces per Pallet	37 Pcs	36 Pcs	36 Pcs
Pallets per Container	26 Pallets	24 Pallets	36 Pallets
Pieces per Container	962 Pcs	864 Pcs	1296 Pcs