

BiMAX 5N

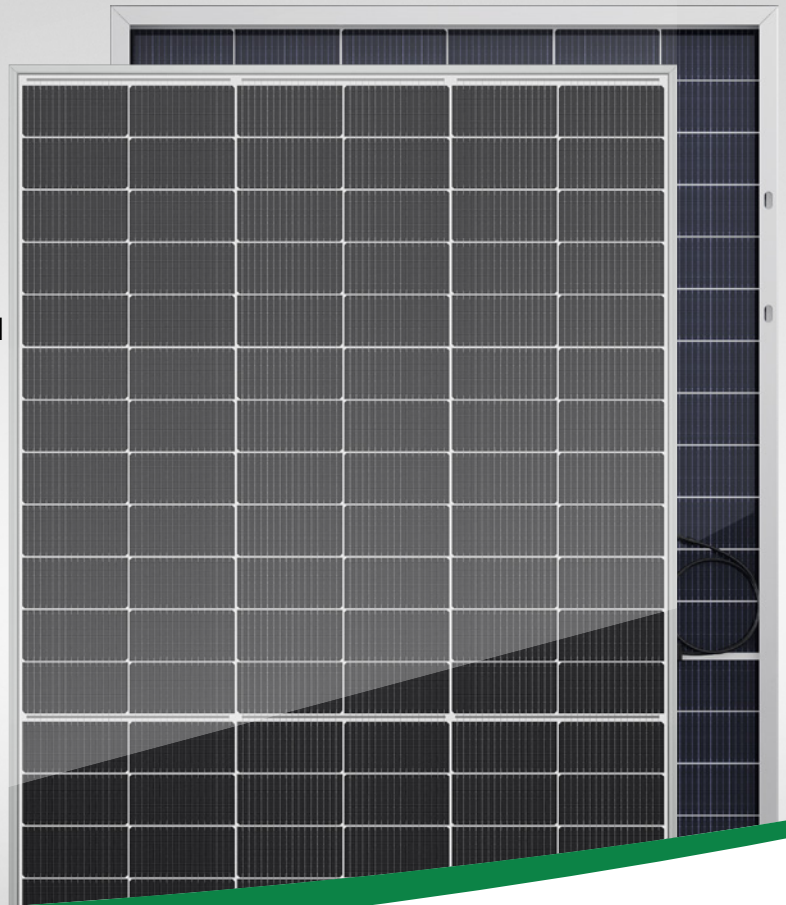
580~590W

182mm16BB 144Cells Double Glass Bifacial
N Type Mono Half Cell PV Module

N TYPE

22.84%

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

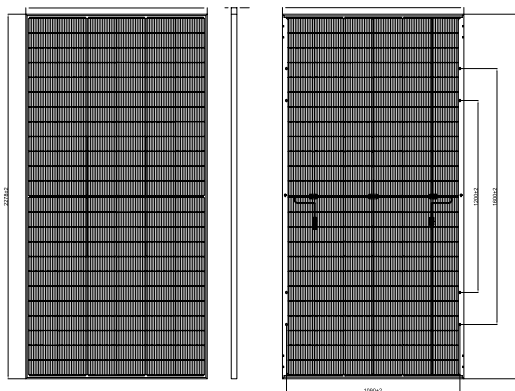


5400Pa
Strengthened
Mechanical Load

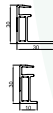


Advanced Bifacial
Efficiency

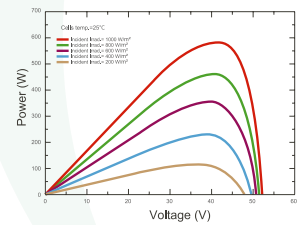
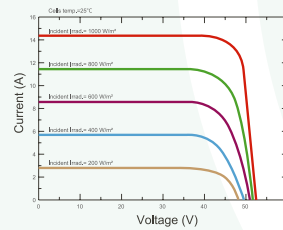
BiMAX 5N 580~590W



Unit:mm



Current-Voltage & Power-Voltage Curves(SP590M-72H)



All Dimensions in mm

The above drawing is a graphical representation of the product,

Electrical Characteristics(STC/NOCT)

Module Type	SP580M-72H		SP585M-72H		SP590M-72H	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power-Pmax(W)	580	436	585	440	590	444
Open Circuit Voltage - Voc(V)	51.47	48.89	51.67	49.08	51.87	49.27
Short- Circuit Current - Isc(A)	14.37	11.21	14.43	11.26	14.49	11.31
Voltage at Pmax -Vmp(V)	42.60	39.86	42.76	39.97	42.92	40.08
Current at Pmax - Imp(A)	13.62	10.94	13.69	11.01	13.75	11.08
Module Efficiency -nm(%)	22.45	/	22.64	/	22.84	/
Power Tolerance(W)	(0, +4.99W)					
Maximum System Voltage(V)	1500Vdc (IEC/UL)					
Maximum Series Fuse Rating(A)	25A					

*STC :Irradiance 1000W/m²,Cell Temperature 25°C, Air Mass 1.5

*NOCT : Irradiance 800W/m²,Ambient Temperature 20°C, Air Mass1.5, Wind Speed 1m/s

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

Mechanical Specifications

External Dimensions	2278x1134x30mm
Weight	31kg
Solar Cells	N-Type 16BB 18 mm(2x72pcs)
Front Glass	AR Coated 2+2mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4.0mm ² ,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 SP585M-72H as an example.

Power Gain	5%	15%	25%
Maximum Power- Pmax(W)	614	673	731
Open Circuit Voltage - Voc(V)	51.67	51.67	51.67
Short- Circuit Current - Isc(A)	14.81	16.23	17.63
Voltage at Pmax -Vmp(V)	42.76	42.76	42.76
Current at Pmax -Imp(A)	14.36	15.74	17.10

Packing configuration

Pallet Dimensions	2300x1140x1275mm		
Ways of Transport	40'HQ	13m Flatbed Truck	17.5m Flatbed Truck
Pieces per Pallet	37 Pcs	37 Pcs	37Pcs
Pallets per Container	20 Pallets	22 Pallets	24 Pallets
Pieces per Container	740 Pcs	814Pcs	888Pcs