

BiMAX 5N

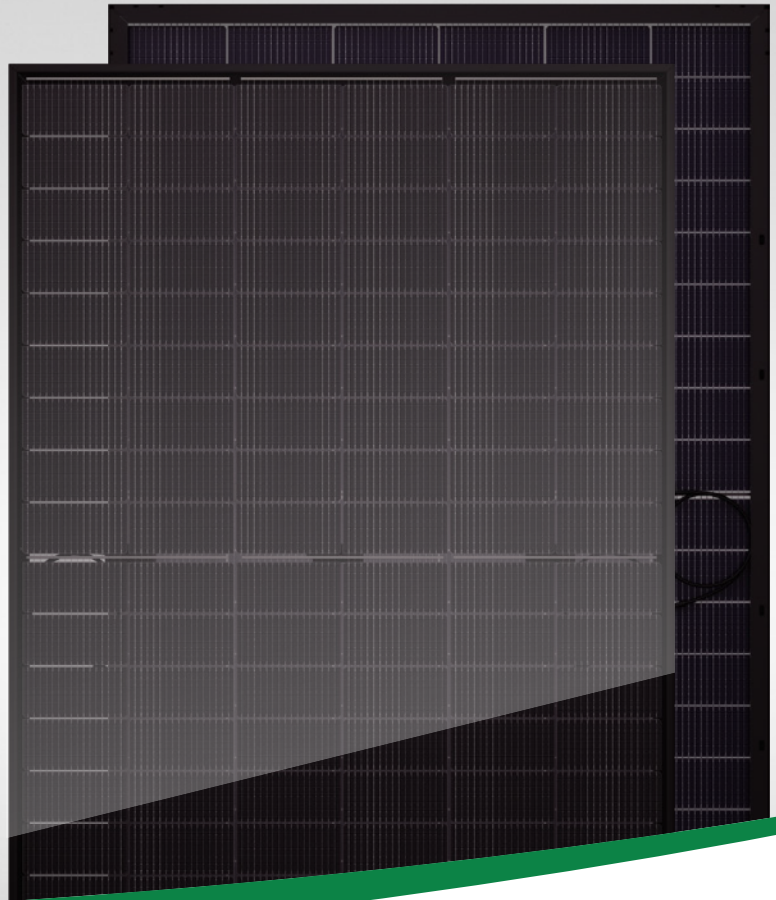
410~440W

182mm 16BB 108Cells All Black
 Double Glass Bifacial
 N Type Mono Half Cell PV Module Series

N TYPE

22.53%

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

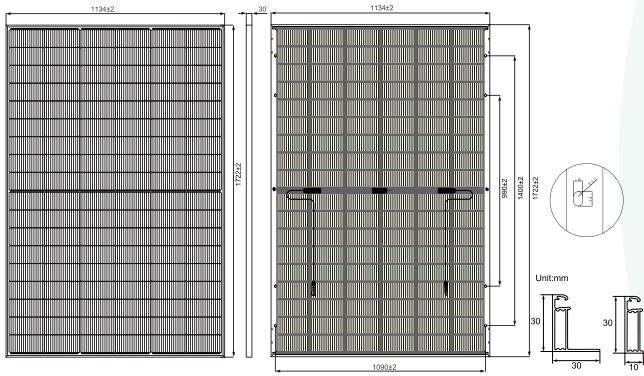


5400Pa
 Strengthened
 Mechanical Load

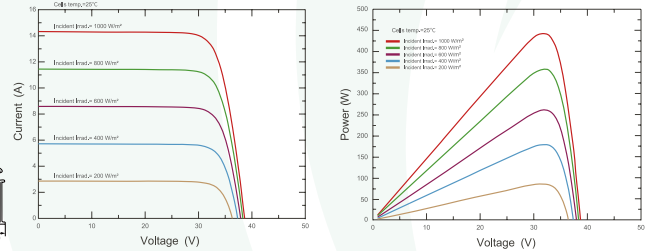


Advanced Bifacial
 Efficiency

BiMAX 5N 410 ~440W



Current-Voltage & Power-Voltage Curves(SP440M-54H)



All Dimensions in mm

The above drawing is a graphical representation of the product,

Electrical Characteristics(STC/NMOT)

Module Type	SP410M-54H		SP415M-54H		SP420M-54H		SP425M-54H		SP430M-54H		SP435M-54H		SP440M-54H	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power- Pmax(W)	410	313.7	415	317.3	420	321.1	425	325.0	430	328.7	435	332.4	440	336.3
Open Circuit Voltage - Voc(V)	38.20	36.30	38.33	36.40	38.46	36.50	38.59	36.60	38.72	36.80	38.85	36.90	38.98	37.10
Short- Circuit Current - Isc(A)	13.49	10.97	13.60	11.05	13.71	11.13	13.81	11.22	13.91	11.28	14.33	11.36	14.41	11.44
Voltage at Pmax -Vmp(V)	31.60	29.60	31.79	29.71	31.97	29.90	32.15	30.01	32.34	30.19	32.52	30.30	32.70	30.41
Current at Pmax -Imp(A)	12.98	10.60	13.06	10.68	13.14	10.74	13.22	10.83	13.30	10.89	13.38	10.97	13.46	11.06
Module Efficiency -nm(%)	21.00	/	21.30	/	21.50	/	21.80	/	22.00	/	22.27	/	22.53	/
Power Tolerance(W)	(0, +4.99W)													
Maximum System Voltage(V)	1500Vdc (IEC/UL61730)													
Maximum Series Fuse Rating (A)	30A													

*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	1722x1134x30mm
Weight	21kg
Solar Cells	N-Type 16BB 182mm (2x54pcs)
Front Glass	AR Coated 1.6+1.6mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4.0mm²,300mm(+),300mm(-), 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 SP420M-54H as an example.

	5%	10%	20%
Power Gain			
Maximum Power- Pmax(W)	441.0	483.0	525.0
Open Circuit Voltage - Voc(V)	38.46	38.46	38.46
Short- Circuit Current - Isc(A)	14.42	15.79	17.16
Voltage at Pmax -Vmp(V)	31.97	31.97	31.97
Current at Pmax -Imp(A)	13.79	15.11	16.42

Packing configuration

	1740x1140x1275mm	17.5m Flatbed Truck	17.5m Flatbed Truck
Pallet Dimensions			
Ways of Transport	40'HQ	13m Flatbed Truck	17.5m Flatbed Truck
Pieces per Pallet	37 Pcs	37 Pcs	37 Pcs
Pallets per Container	26 Pallets	28 Pallets	32 Pallets
Pieces per Container	962 Pcs	1036Pcs	1184 Pcs