



## BiMAX 5N

# 605-635W

## SP635M-78H

N-type TOPCon Bifacial  
Black Frame Dual Glass Solar Module

### 10-30% Additional Power Generation

30 years lifespan brings 10-30% additional power generation comparing with conventional P-type module.

### ZERO LID (Light Induced Degradation)

N-type solar cell has no LID naturally which can increase power generation.

### Higher Reliability

Adopted SunPal latest S-TOPCon 2.0 technology, No polysilicon wrap around, Full electrical isolation, Zero leakage current; Much Safer for roof.

### Better Weak Illumination Response

Higher power output even under low-light environments like on cloudy or foggy days.

### Better Temperature Coefficient

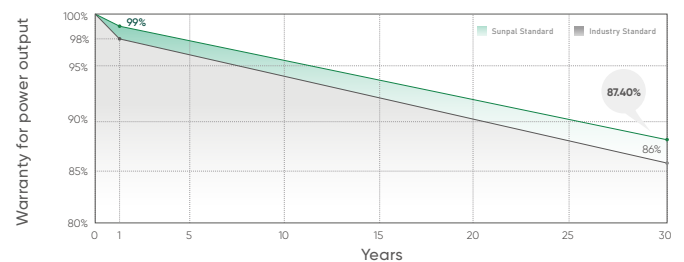
Higher power generation under working conditions, thanks to passivating contact cell technology.

### Quality Management System and Product Certification

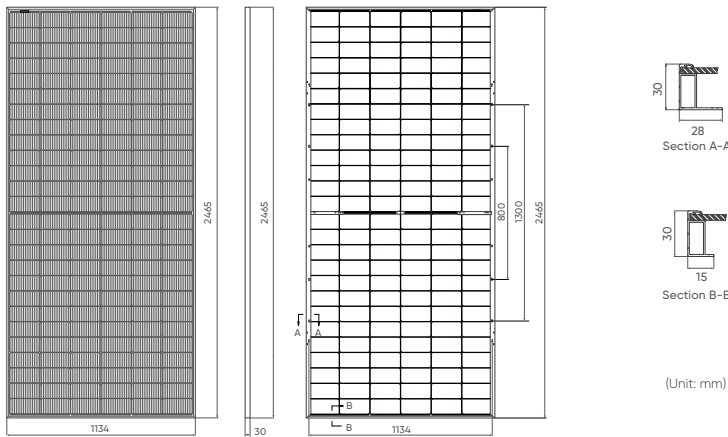
IEC61215/61730, IEC62804(PID), IEC61701(Salt).  
IEC62716 (Ammonia), IEC60068-2-68(Sand).  
ISO 9001:2015/quality management system.  
ISO 14001:2015/environmental management system.  
ISO 45001:2018/occupation health safety management system.  
ISO 50001:2011/energy management system.  
IEC TS 62941-2016/PV industry quality management system.

### Quality Guarantee

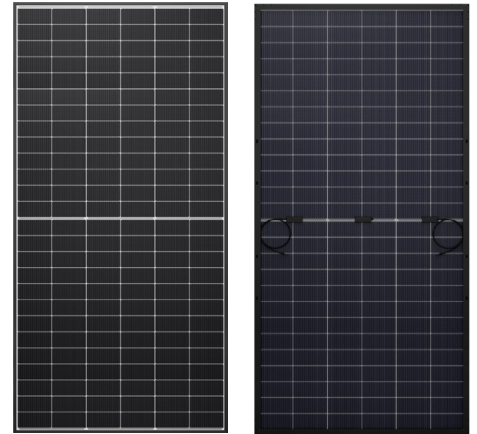
**25 YEAR** Materials Warranty      **30 YEAR** Power Warranty



**Drawings**



**Product Image**



**Mechanical Characteristics**

Solar Cells	N-type Mono
No. of Cells	156 (6x26)
Dimensions	2465 x 1134 x 30mm
Weight	34.5kg
Glass	Front: 2.0mm coated semi-tempered glass; Back: 2.0mm semi-tempered glass
Frame	Black anodized aluminium alloy
Junction Box	Ip68 rated (3 by pass diodes)
Output Cables	4mm <sup>2</sup> , 300mm (+) / 300mm (-), Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa
Packaging	36pcs/box, 144pcs/20'GP, 576pcs/40'HQ

**Operating Characteristics**

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

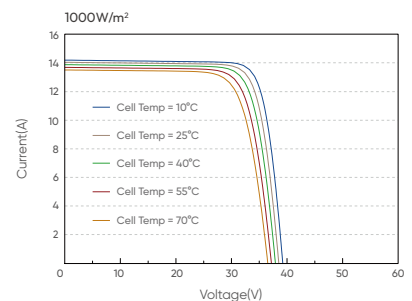
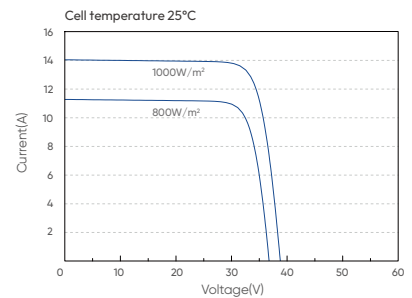
**Temperature Characteristics**

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.045%/°C

**Electrical Parameters (STC\*)**

Module Type: SP635M-78H	605	610	615	620	625	630	635
Maximum power (Pmax/W)	605	610	615	620	625	630	635
Open Circuit Voltage (Voc/V)	55.30	55.41	55.53	55.64	55.75	55.86	55.97
Short Circuit Current (Isc/A)	13.97	14.04	14.11	14.18	14.25	14.32	14.39
Voltage at Maximum power (Vmpp/V)	45.63	45.76	45.90	46.03	46.16	46.29	46.42
Current Maximum Power (Impp/A)	13.26	13.33	13.40	13.47	13.54	13.61	13.68
MODULE EFFICIENCY (%)	21.64	21.82	22.00	22.18	22.36	22.54	22.72

**I-V Curve**



**Bifacial Output-Rearside Power Gain**

		635	641	646	651	656	662	667
5%	Maximum power (Pmax/W)	635	641	646	651	656	662	667
	Module Efficiency STC (%)	22.73	22.91	23.10	23.29	23.48	23.68	23.86
15%	Maximum power (Pmax/W)	696	702	707	713	719	725	730
	Module Efficiency STC (%)	24.89	25.10	25.30	25.51	25.71	25.91	26.11
25%	Maximum Power (Pmax/W)	756	763	769	775	781	788	794
	Module Efficiency STC (%)	27.05	27.28	27.50	27.73	27.95	28.18	28.41

1. Standard Test Conditions [STC]: irradiance 1000W/m<sup>2</sup>; AM 1.5; ambient temperature 25°C according to EN 60904-3;  
 2. Tolerance of Pm: 0/+5W, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%.