

BiMAX 5 Bifacial Double Glass/Transparent Backsheet

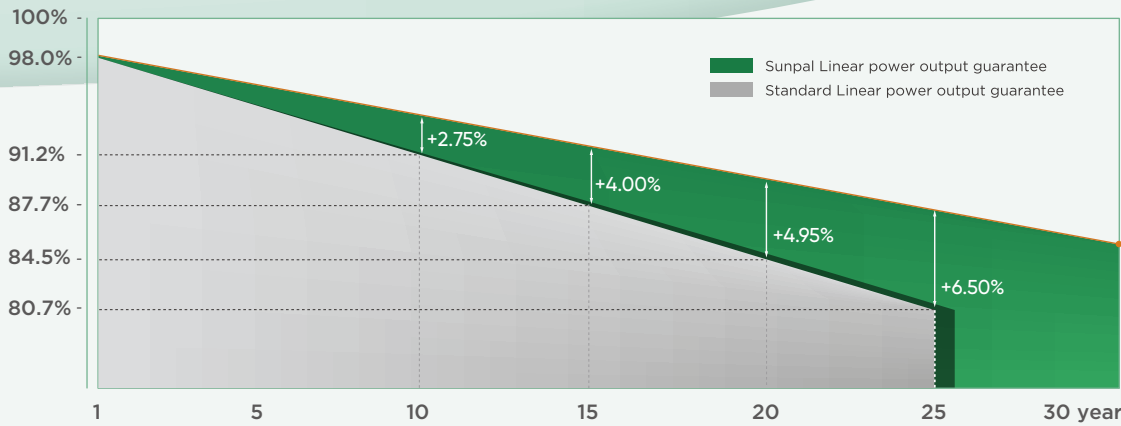
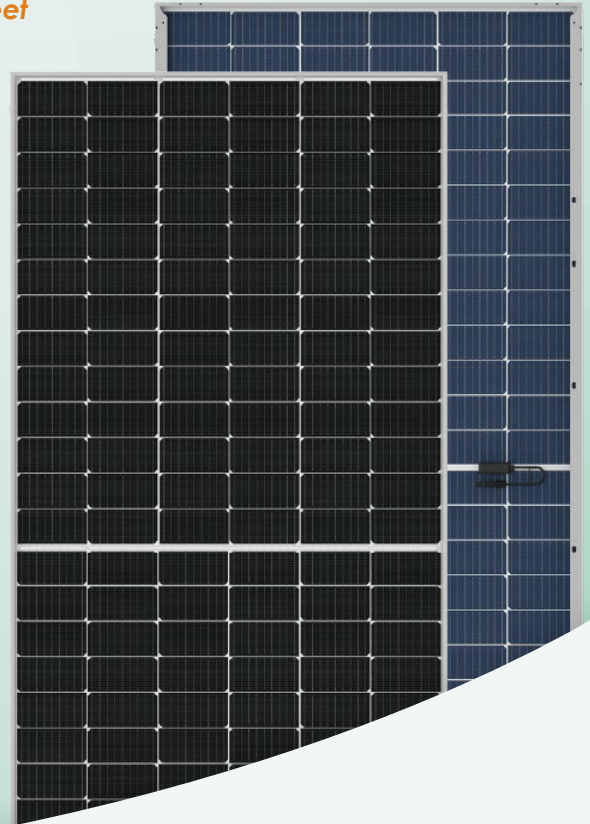
575~605W

156 Half-Cell | 182mmCell. | MBB

High Efficiency
Low LID Bifacial PERC with
Half-cut Technology

Quality Guarantee

12-year material & technology warranty
 30-year linear power output warranty



84.95%
21.65%
 Max Module Eff.
0~+5W
 Positive Tolerance

Front side performance equivalent to conventional low LID mono PERC:

- > High module conversion efficiency (up to 21.67%)
- > Better energy yield with excellent low irradiance performance and temperature coefficient
- > First year power degradation <2%

Bifacial technology enables additional energy harvesting from rear side (up to 25%)

Glass/glass lamination ensures 30 year product lifetime, with annual power degradation < 0.45%, 1500V compatible to reduce BOS cost

Solid PID resistance ensured by solar cell process optimization and careful module BOM selection

Reduced resistive loss with lower operating current

Higher energy yield with lower operating temperature

Reduced hot spot risk with optimized electrical design and lower operating current

Complete System and Product Certifications

- IEC 61215, IEC 61730, UL 61730
- ISO 9001:2008: ISO Quality Management System
- ISO 14001: 2004: ISO Environment Management System
- OHSAS 18001: 2007 Occupational Health and Safety



* Specifications subject to technical changes and tests. Sunpal Solar reserves the right of interpretation.



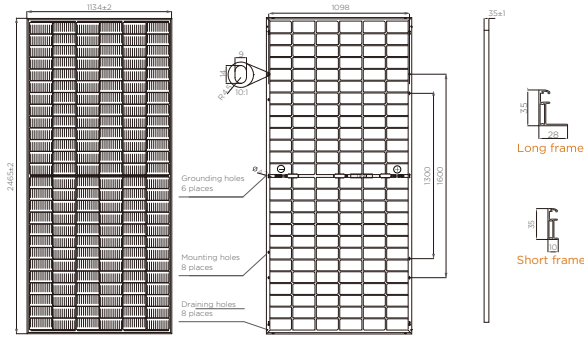
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Design (mm)



*Units: mm *Tolerance: ±2mm

Cell Orientation	156 (6x26)
Junction Box	IP68, three diodes
Output Cable	4mm ² , 300mm in length, length can be customized
Glass	Double/Single glass 2.0/3.2mm coated tempered
Frame	Anodized aluminum alloy frame
Weight:	32.1kg±3%
Dimension	2465×1134×35mm
Packaging	31pcs per pallet 496pcs per 40'ftContainer

Operational Temperature	-40°C~+85°C
Power Output Tolerance	0~+5W
Voc & Isc Tolerance	±3%
Max. System Voltage	DC1500V(IEC/UL)
Max. Series Fuse Rating	25A
NOCT	45±2°C
Safety Class	II
Fire Rating	UL type 3
Bifaciality	Glazing 70±5%
Max. Static Load(Front)	5400Pa
Max. Static Load(Back)	2400Pa

Electrical Characteristics

Model Number	SP575M-78H		SP580M-78H		SP585M-78H		SP590M-78H		SP595M-78H		SP600M-78H		SP605M-78H	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	575	428	580	432	585	436	590	440	595	444	600	448	605	452
Open Circuit Voltage (Voc/V)	53.57	50.57	53.67	50.67	53.77	50.77	53.87	50.87	53.97	50.97	54.07	51.07	54.17	51.17
Short Circuit Current (Isc/A)	13.65	11.02	13.72	11.08	13.79	11.14	13.86	11.2	13.93	11.26	14	11.32	14.07	11.38
Voltage at Maximum Power (Vmp/V)	44.36	41.28	44.46	41.45	44.56	41.62	44.66	41.79	44.76	41.96	44.86	42.13	44.96	42.3
Current at Maximum Power (Imp/A)	12.97	10.37	13.05	10.43	13.13	10.48	13.22	10.53	13.3	10.59	13.38	10.64	13.46	10.69
Module Efficiency(%)	21.58		20.75		20.93		21.11		21.29		21.47		21.65	
Temperature Coefficient of Isc														
Temperature Coefficient of Voc														
Temperature Coefficient of Pmax														
	+0.045%/°C													
	-0.275%/°C													
	-0.350%/°C													

* STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25°C, Spectra at AM1.5

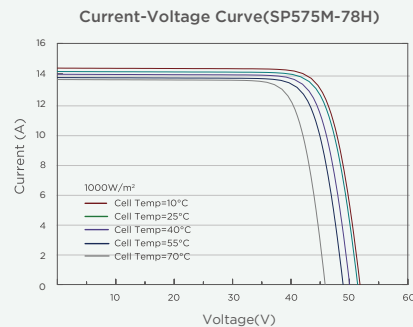
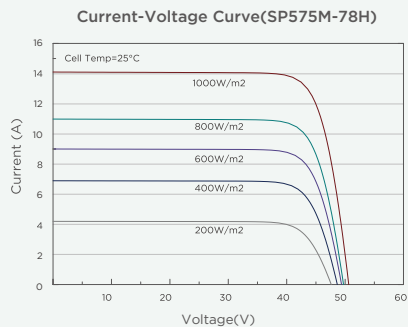
* NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

*Test uncertainty for Pmax: ±3%

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

%		SP575M-78H	SP580M-78H	SP585M-78H	SP590M-78H	SP595M-78H	SP600M-78H	SP605M-78H
		Maximum power (Pmax)	604W	609W	614W	620W	625W	630W
Module Efficiency STC (%)	21.60%	21.79%	21.97%	22.16%	22.35%	22.54%	22.73%	
Maximum power (Pmax)	661W	667W	673W	679W	684W	690W	696W	
Module Efficiency STC (%)	23.66%	23.86%	24.07%	24.27%	24.48%	24.68%	24.89%	
Maximum power (Pmax)	719W	725W	731W	738W	744W	750W	756W	
Module Efficiency STC (%)	25.71%	25.94%	26.16%	26.38%	26.61%	26.83%	27.05%	

I-V Curve



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*CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

*Specifications included in this datasheet are subject to change without notice.



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