

BiMAX 5 Bifacial Double Glass/Transparent Backsheet

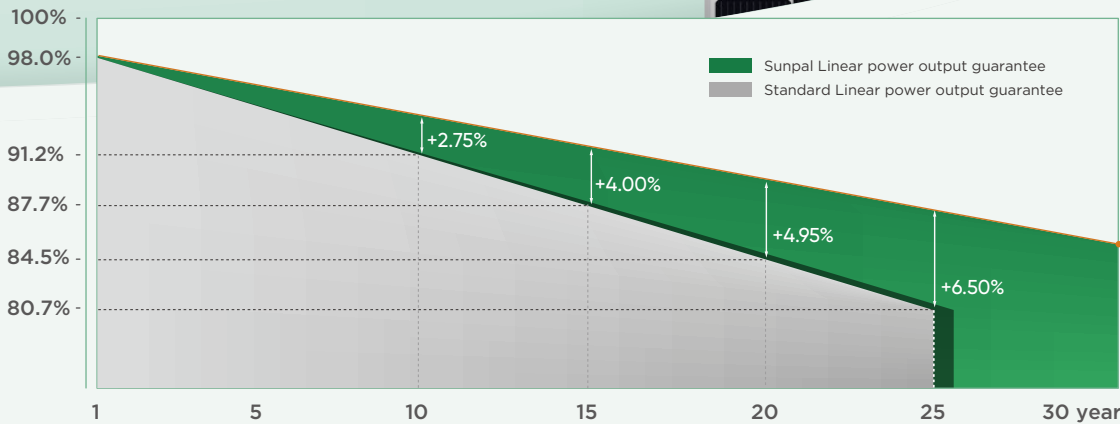
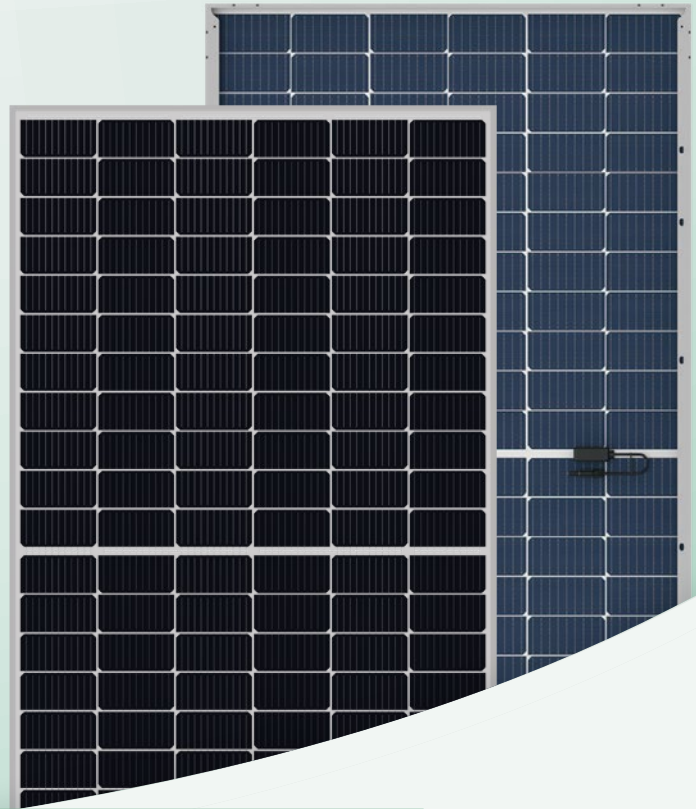
485~510W

132 Half-Cell | 182mmCell. | MBB

182mm Cells Mono Bifacial PERC with MBB & Half-cut Technology

Quality Guarantee

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



84.95%

21.48%

Max Module Eff.

0~+5W

Positive Tolerance

Front side performance equivalent to conventional low LID mono PERC:

- > High module conversion efficiency (up to 21.48%)
- > 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.



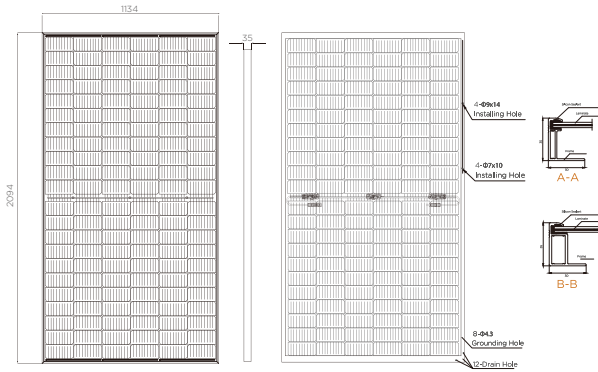
Add: No. 398 Ganquan Road, Hefei, Anhui, China.
Email: silvia@sunpalsolar.com **Te:** +86 551 6586 5992
WhatsApp: +86 182 6991 2022 **Web:** www.sunpalsolar.com



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Design (mm)



Cell Orientation	132 (6x22)
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:	28.0kg±3%
Dimension	2094×1134×35mm
Packaging	31pcs per pallet 682pcs per 40'GP

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

*Units: mm *Tolerance: ±2mm

Electrical Characteristics

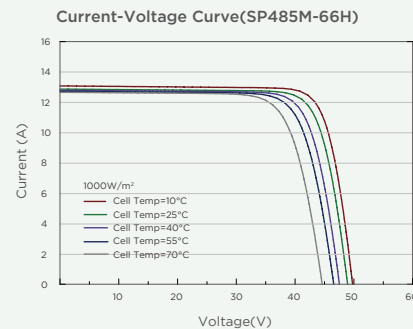
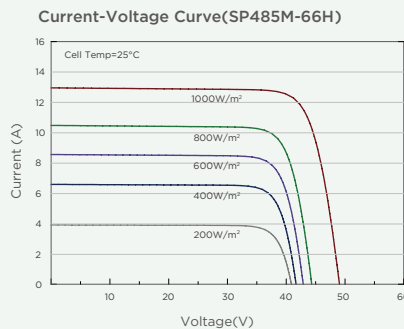
Model Number	SP485M-66H		SP490M-66H		SP495M-66H		SP500M-66H		SP505M-66H		SP510M-66H	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	485	365	490	369	495	373	500	377	505	381	510	385
Open Circuit Voltage (Voc/V)	48.34	44.93	48.46	45.05	48.58	45.17	48.7	45.29	48.82	45.41	48.94	45.53
Short Circuit Current (Isc/A)	12.99	10.55	13.06	10.61	13.13	10.67	13.2	10.73	13.27	10.79	13.34	10.85
Voltage at Maximum Power (Vmp/V)	40.08	36.76	40.22	36.95	40.36	37.14	40.5	37.33	40.64	37.52	40.78	37.71
Current at Maximum Power (Imp/A)	12.11	9.93	12.19	9.99	12.27	10.05	12.35	10.1	12.43	10.16	12.51	10.21
Module Efficiency(%)	20.43		20.64		20.85		21.06		21.27		21.48	
Temperature Coefficient of Isc												+0.04%/°C
Temperature Coefficient of Voc												-0.25%/°C
Temperature Coefficient of Pmax												-0.34%/°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%

Electrical characteristics with different rear side powerin (reference to 490W front)

Pmax/W	Vmp/V	Imp/A	Voc/V	Isc/A	Pmax gain
515	40.22	12.80	48.46	13.71	5%
539	40.22	13.40	48.56	14.37	10%
564	40.22	14.02	48.66	15.02	15%
588	40.22	14.62	48.76	15.67	20%
613	40.22	15.24	48.86	16.33	25%

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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