

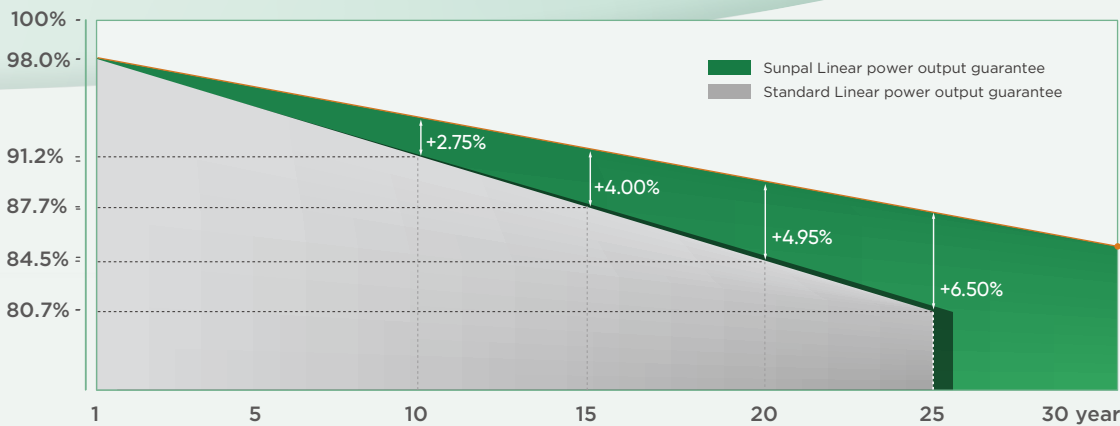
6 **BiMAX** Bifacial Double Glass/Transparent Backsheet

535~560W

210mm Cells Mono PERC with MBB & Half-cut Technology

Quality Guarantee

12-year Warranty for Materials and Processing
30-year Warranty for Extra Linear Power Output



84.95%

21.44%

Max Module Eff.

0~+5W

Positive Tolerance

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.

Positive power tolerance (0~+5W) guaranteed

High module conversion efficiency (up to 21.44%)

Slower power degradation enabled by Low LID Mono PERC technology: first year <2%, 0.55% year 2-25

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



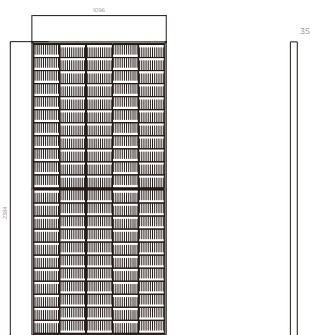
Add: No. 398 Ganquan Road, Hefei, Anhui, China.
Email: silvia@sunpalsolar.com Tel: +86 551 6586 5992
WhatsApp: +86 182 6991 2022 Web: www.sunpalsolar.com



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Design (mm)



*Units: mm *Tolerance: ±2mm

Cell Orientation	110 (5x22)
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:	32.3kg±3%
Dimension	2384×1096×30mm
Packaging	36pcs per pallet 720pcs 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	30A
NOCT	45±2°C
Safety Class	II
Fire Rating	UL type 1 or 2
Max. Static Load(Front)	5400Pa
Max. Static Load(Back)	2400Pa

Electrical Characteristics

Model Number	SP535M-55H		SP540M-55H		SP545M-55H		SP550M-55H		SP555M-55H		SP560M-55H	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	535	405	540	409	545	413	550	417	555	421	560	425
Open Circuit Voltage (Voc/V)	37.3	35.1	37.5	35.3	37.7	35.5	37.9	35.7	38.1	35.9	38.3	36.1
Short Circuit Current (Isc/A)	18.36	14.8	18.41	14.84	18.46	14.88	18.51	14.92	18.56	14.96	18.61	15
Voltage at Maximum Power (Vmp/V)	31	28.8	31.2	29	31.4	29.2	31.6	29.4	31.8	29.6	32	29.8
Current at Maximum Power (Imp/A)	17.26	14.07	17.31	14.11	17.36	14.15	17.41	14.29	17.46	14.23	17.5	14.27
Module Efficiency(%)	20.48		20.67		21.86		21.05		21.25		21.44	
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

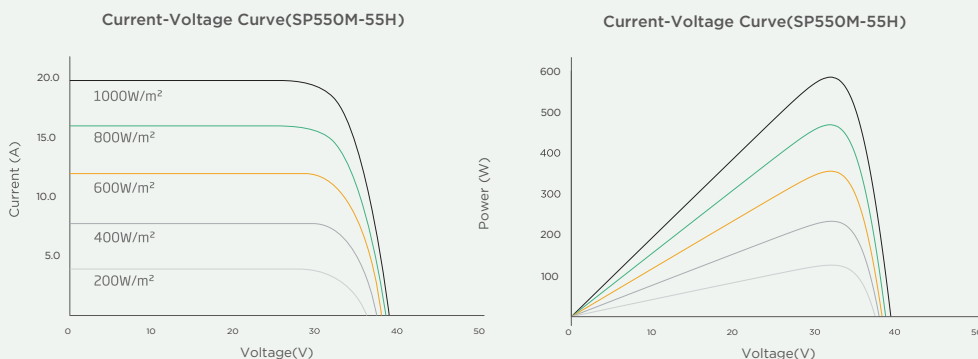
* NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

* Test uncertainty for Pmax: ±3%

Electrical characteristics with different rear side powerin (reference to 540W front)

Pmax/W	Vmp/V	Imp/A	Voc/V	Isc/A	Pmax gain
567	31.2	18.17	37.5	19.33	5%
594	31.2	19.04	37.6	20.25	10%
621	31.2	19.90	37.7	21.17	15%
648	31.2	20.77	37.8	22.09	20%
675	31.2	21.63	37.9	23.01	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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