

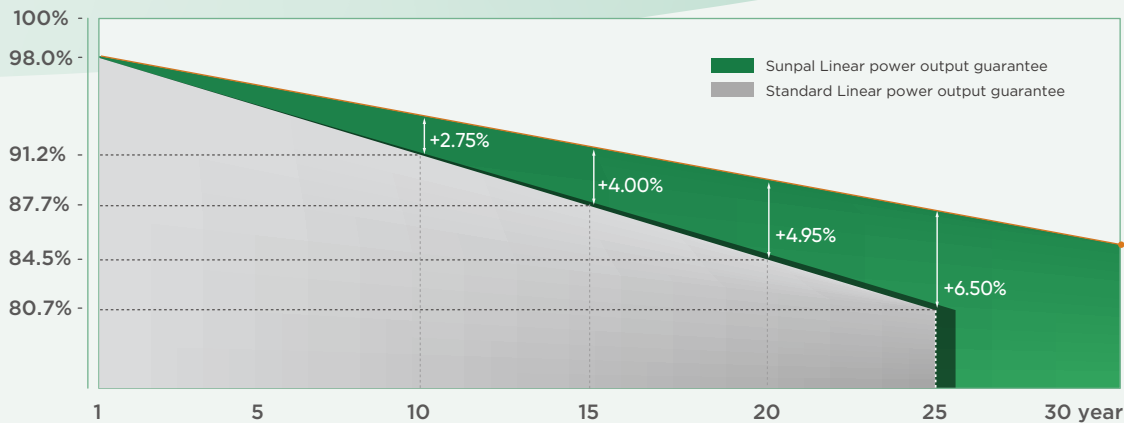
6 **BiMAX** Bifacial Double Glass/Transparent Backsheet

585~610W

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%

21.56%

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 21.56%)

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

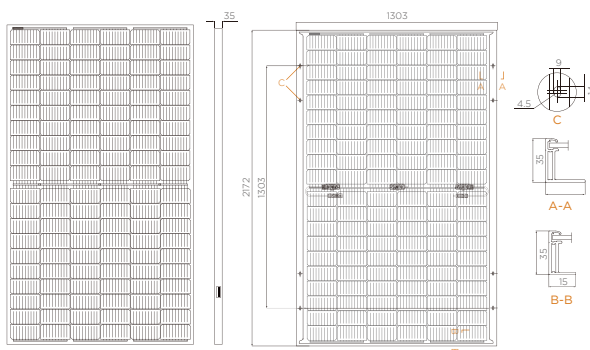
Reduced resistive loss with lower operating current

Higher energy yield with lower operating temperature

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



Design (mm)



*Units: mm *Tolerance: ±2mm

Cell Orientation	120 (6x20)
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:	30.9kg±3%
Dimension	2172x1303x35mm
Packaging	31pcs per pallet 558pcs 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 Ratio	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	SP585M-60H		SP590M-60H		SP595M-60H		SP600M-60H		SP605M-60H		SP610M-60H	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	585	443	590	447	595	451	600	455	605	459	610	463
Open Circuit Voltage (Voc/V)	40.9	38.5	41.1	38.7	41.3	38.9	41.5	39.1	41.7	39.3	41.9	39.5
Short Circuit Current (Isc/A)	18.37	14.81	18.42	14.85	18.47	14.89	18.52	14.93	18.57	14.97	18.62	15.01
Voltage at Maximum Power (Vmp/V)	33.8	31.5	34	31.7	34.2	31.9	34.4	32.1	34.6	32.3	34.8	32.5
Current at Maximum Power (Imp/A)	17.31	14.07	17.36	14.11	17.4	14.14	17.45	14.18	17.49	14.22	17.53	14.25
Module Efficiency(%)	20.68		20.85		21.03		21.21		21.38		21.56	
Temperature Coefficient of Isc												+0.04%/°C
Temperature Coefficient of Voc												-0.25%/°C
Temperature Coefficient of Pmax												-0.0.34%/°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

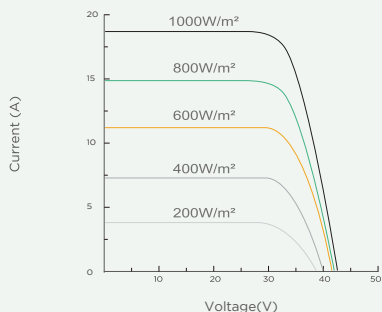
*Test uncertainty for Pmax: ±3%

Electrical characteristics with different rear side powerin (reference to 590W front)

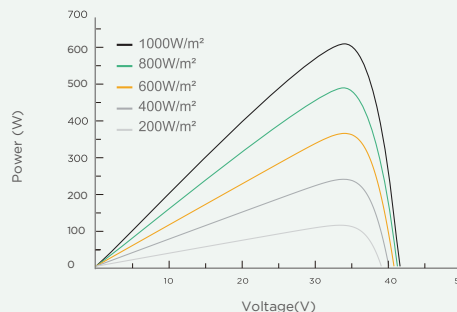
Pmax/W	Vmp/V	Imp/A	Voc/V	Isc/A	Pmax gain
620	34	18.24	41.1	19.34	5%
649	34	19.09	41.2	20.26	10%
679	34	19.97	41.3	21.18	15%
708	34	20.82	41.4	22.10	20%
738	34	21.71	41.5	23.03	25%

I-V Curve

Current-Voltage Curve(SP605M-60H)



Current-Voltage Curve(SP605M-60H)



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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.

