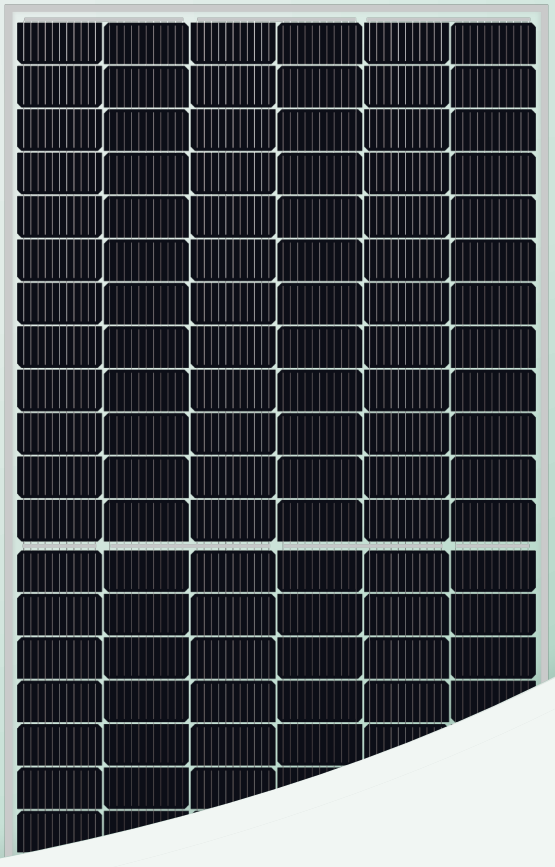
BiMAX 5 Transparent Backsheet

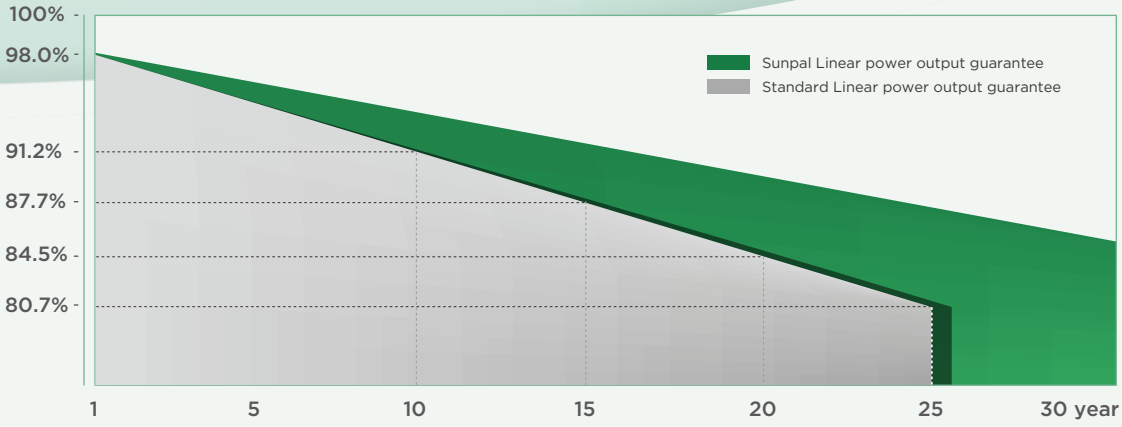
525~550W

High Efficiency Low LID Bifacial PERC with Half-cut Technology



Quality Guarantee

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



21.2%
Max Module Eff.

0~+5W
Positive Tolerance

Front side performance equivalent to conventional low LID mono PERC:

>High module conversion efficiency (up to 21.2%)
>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.

Sunpal
Making more power

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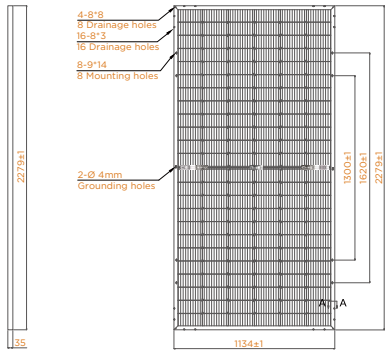
Design (mm)



*Units: mm
*Tolerance: ±2mm

Cell Orientation	144 (6x24)
Junction Box	IP68, three diodes
Output Cable	4mm², 300mm in length,
	length can be customized
Glass	Front Glass
	3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight:	28.5kg±3%
Dimension	2279x1134x35mm
Packaging	30pcs per pallet
	600pcs 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	20A
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	SP525MB-72HT	SP530MB-72HT	SP535MB-72HT	SP540MB-72HT	SP545MB-72HT	SP550MB-72HT
Testing Condition	STC	STC	STC	STC	STC	STC
Maximum Power (Pmax/W)	525	530	535	540	545	550
Open Circuit Voltage (Voc/V)	49.15	49.30	49.45	49.60	49.75	49.90
Short Circuit Current (Isc/A)	13.65	13.72	13.79	13.86	13.93	14.00
Voltage at Maximum Power (Vmp/V)	41.15	41.31	41.47	41.64	41.80	41.96
Current at Maximum Power (Imp/A)	12.76	12.83	12.90	12.97	13.04	13.11
Module Efficiency(%)	20.3	20.5	20.6	20.8	21.0	21.2
Temperature Coefficient of Isc	+0.045%/°C					
Temperature Coefficient of Voc	-0.275%/°C					
Temperature Coefficient of Pmax	-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%

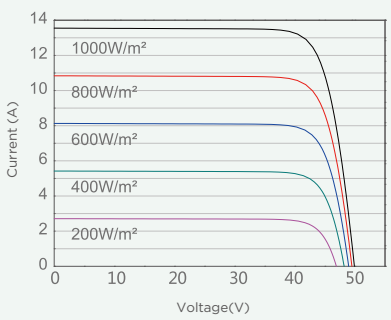
ELECTRLCAL CHARACTERISTICS WITH DIFFERENT POWER RANGES (REFRENCE TO 10% SOLAR ILLLUMINANCE RATIO)

TYPE	SP525MB-72HT	SP530MB-72HT	SP535MB-72HT	SP540MB-72HT	SP545MB-72HT	SP550MB-72HT
Rated Maximum Prower(Pmax/W)	562	567	572	578	583	589
Open Circuit Voltage (Voc/V)	49.54	49.67	49.80	49.93	50.03	50.21
Maximum Power Voltage(Vmp/v)	41.53	41.77	41.99	42.24	42.43	42.67
Short Circuit Current (Isc/A)	14.34	14.39	14.45	14.50	14.56	14.63
Max power Current(Imp/A)	13.52	13.58	13.63	13.69	13.74	13.79

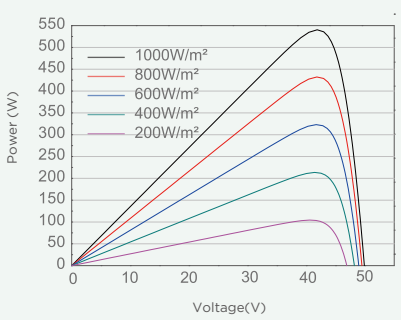
**Bifaciality=Pmax,rear/Rated Pmax,front

I-V Curve

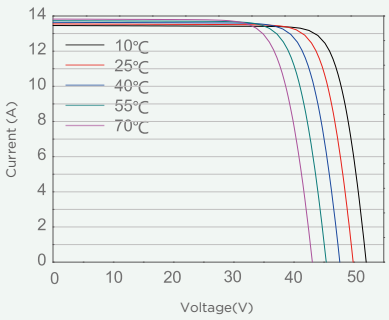
Current-Voltage Curve(SP540MB-72HT)



Current-Voltage Curve(SP540MB-72HT)



Current-Voltage Curve(SP540MB-72HT)



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