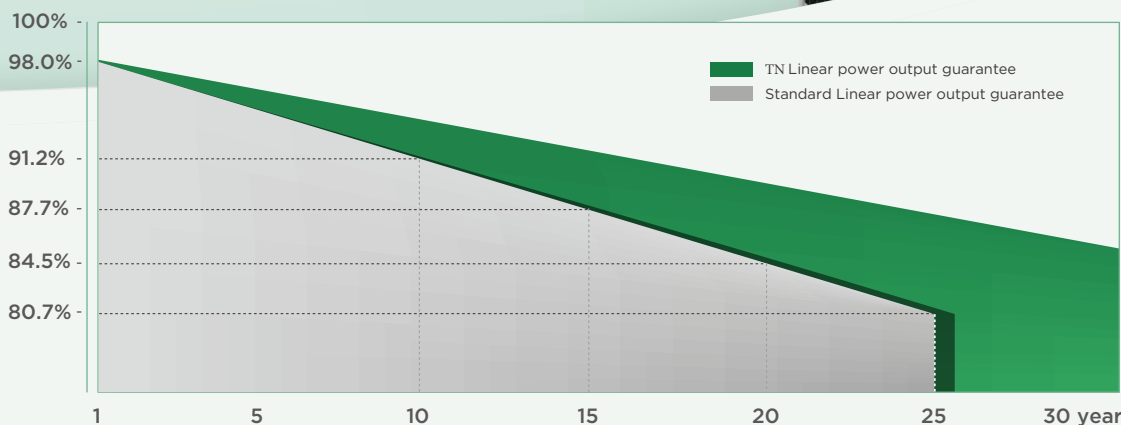
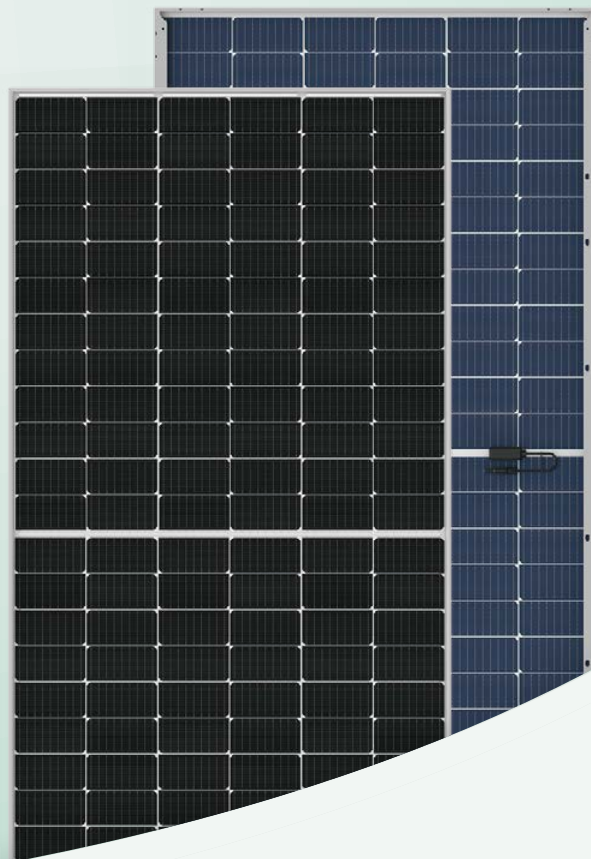


525~550W

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

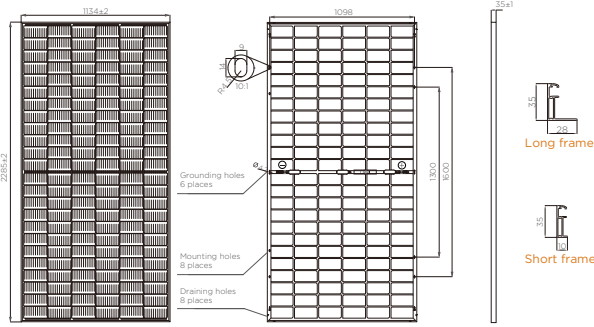
ISO 14001: 2004: ISO Environment Management System

OHSAS 18001: 2007 Occupational Health and Safety



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

Design (mm)



Cell Orientation	144 (6x24)
Junction Box	IP68, three diodes
Output Cable	4mm ² , 300mm in length, length can be customized
Glass	Dual glass 2.0mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight:	31.6kg±3%
Dimension	2285x1134x35mm
Packaging	31pcs per pallet 620pcs per 40'ft Container

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 3
Bifaciality	Glazing 70±5%
Max. Static Load(Front)	5400Pa
Max. Static Load(Back)	2400Pa

*Units: mm *Tolerance: ±2mm

Electrical Characteristics

Model Number	SP525MB-72H	SP530MB-72H	SP535MB-72H	SP540MB-72H	SP545MB-72H	SP550MB-72H
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%

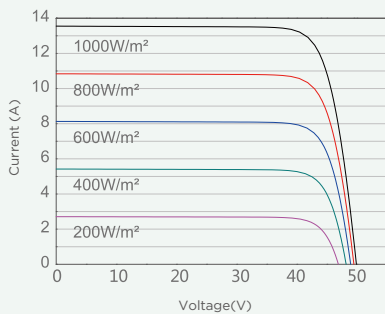
ELECTRICAL CHARACTERISTICS WITH DIFFERENT POWER RANGES (REFERENCE TO 10% SOLAR ILLUMINANCE RATIO)

TYPE	SP525MB-72H	SP530MB-72H	SP535MB-72H	SP540MB-72H	SP545MB-72H	SP550MB-72H
Rated Maximum Power(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

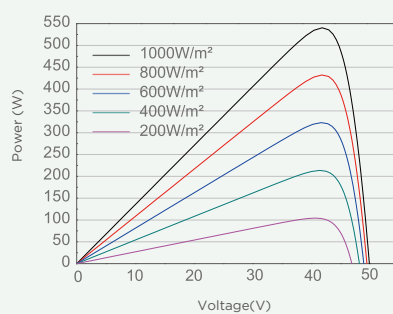
** Bifaciality=Pmax,rear/Rated Pmax,front

I-V Curve

Current-Voltage Curve(SP540MB-72H)



Current-Voltage Curve(SP540MB-72H)



Current-Voltage Curve(SP540MB-72H)

