

OYUNGSOLAR

OSM72PPB

535-555 Watt

HALF CELL

P-Type PERC

BIFACIAL WITH DUAL GLASS

Longer Life-time Power Yield

0.45% annual power degradation and 30 year linear power warranty.

HOT 3.0 Technology

HOT 3.0 technology offer better reliability and efficiency.

Dual-Sided Power Generation

Dual-sided power generation gain increases with backside exposure to light, significantly reducing LCOE.

Mechanical Load Enhanced

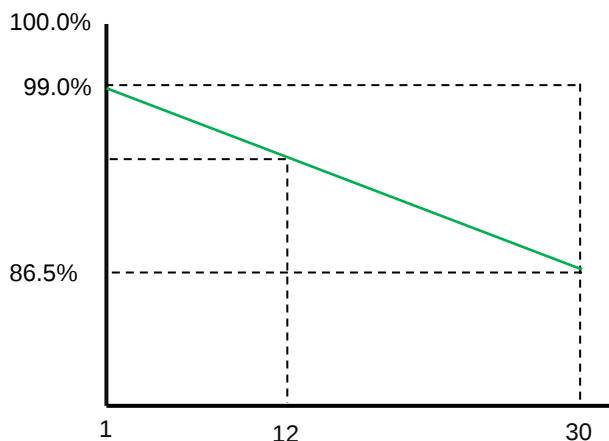
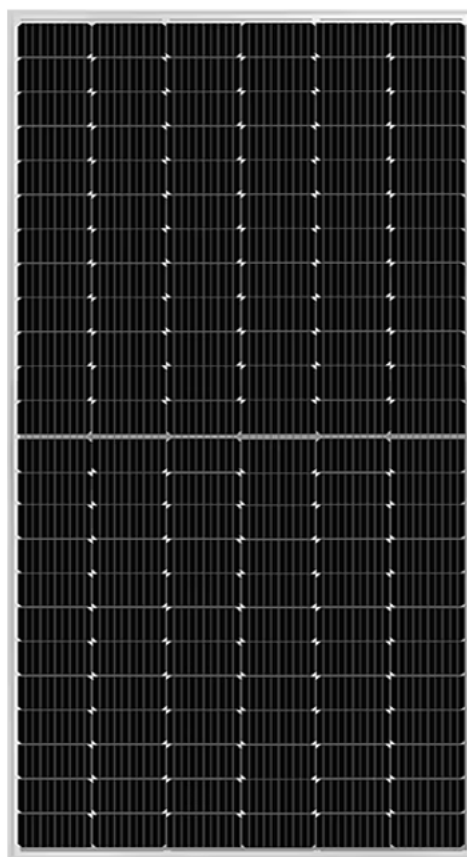
Certified to withstand: 5400 Pa front side max static test load, 2400 Pa rear side max static test load

SMBB Technology

Better light trapping and current collection to improve module power output and reliability.

Anti-PID Guarantee

Minimizes the chance of degradation caused by PID phenomena through optimization of cell production technology and material control.



12 years product warranty

30 years linear power warranty

1.0% first-year degradation

0.45% annual degradation over 30 years

IEC61215:2021 / IEC61730:2023
IEC61701 / IEC62716 / IEC60068 / IEC62804
ISO9001:2015: Quality Management System
ISO14001:2015: Environment Management System
ISO45001:2018: Occupational health and safety management systems



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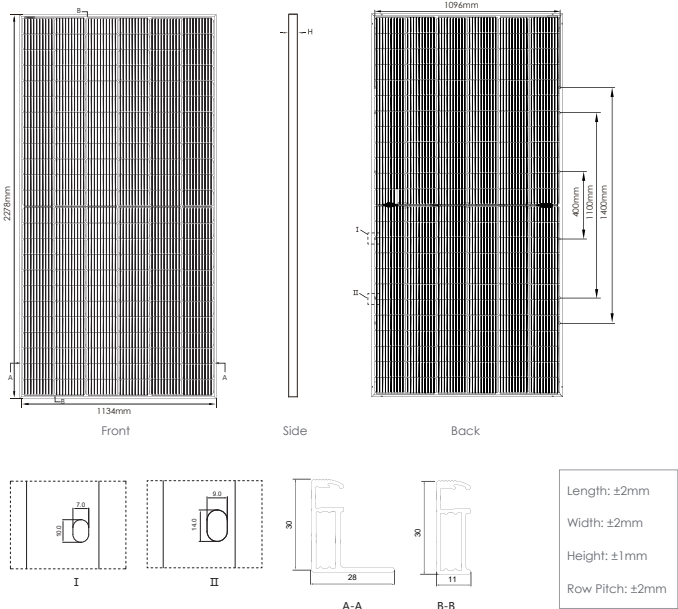
OYUNGSOLAR

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Engineering Drawings



Packaging Configuration

Packing Detail	36 pcs/pallets, 720 pcs/ 40'HC
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Specifications

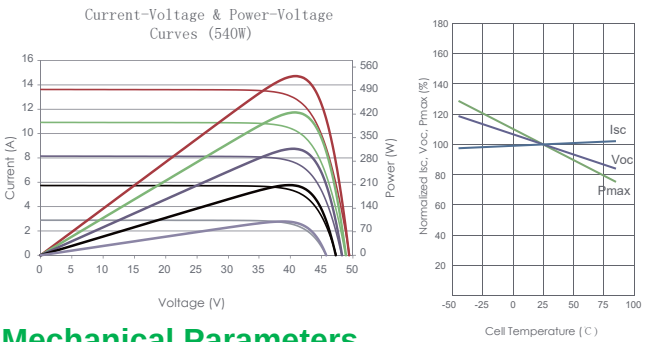
Module Type	OSM72PPB 535		OSM72PPB 540		OSM72PPB 545		OSM72PPB 550		OSM72PPB 555	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	535	398	540	402	545	405	550	409	555	413
Maximum Power Voltage (Vmp/V)	40.94	10.49	41.13	10.55	41.32	38.25	41.51	38.42	41.70	38.59
Maximum Power Current (Imp/A)	13.07	37.94	13.13	38.08	13.19	10.60	13.25	10.65	13.31	10.70
Open-circuit Voltage (Voc/V)	49.54	46.76	49.73	46.94	49.92	47.12	50.11	47.30	50.30	47.48
Short-circuit Current (Isc/A)	13.83	11.17	13.89	11.22	13.95	11.27	14.01	11.32	14.07	11.36
Module Efficiency (STC/%)	20.71		20.90		21.10		21.29		21.48	
Operating Temperature (°C)	-40~+85									
Maximum System Voltage	1500VDC (IEC)									
Maximum Series Fuse Rating	30A									
Power Tolerance	0~+3%									
Temperature Coefficients of Pmax	-0.35%/°C									
Temperature Coefficients of Voc	-0.28%/°C									
Temperature Coefficients of Isc	0.048%/°C									
Nominal Operating Cell Temperature (NOCT)	45±2°C									
Refer. Bifacial Factor	70±5%									

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5 NOCT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

Bifacial Output-Rearside Power Gain

5%	Maximum Power (Pmax/W)	562	567	572	578	583
	Module Efficiency STC (%)	21.76	21.95	22.15	22.36	22.56
15%	Maximum Power (Pmax/W)	615	621	627	633	638
	Module Efficiency STC (%)	23.81	24.04	24.26	24.48	24.71
25%	Maximum Power (Pmax/W)	669	675	681	688	694
	Module Efficiency STC (%)	25.90	26.13	26.37	26.61	26.86

Electrical Performance



Mechanical Parameters

Cell Type	P-type PERC
No. of cells	144 (72×2)
Dimension	2278×1134×30mm
Weight	31.0kg
Front Glass	2.0 mm, anti-reflection coating
Back Glass	2.0 mm, heat strengthened glass
Frame	anodized aluminium alloy
Junction Box	IP68 rated
Output Cables	4.0mm ² , (+): 400mm, (-): 200mm