

OYUNGSOLAR

OSM54NHB

495-520 Watt

HALF CELL

N-Type HJT

BIFACIAL WITH DUAL GLASS

0BB Technology

Shorter current transmission distance, less resistive loss and higher power generation efficiency, lower LCOE, more sophisticated look.

HJT Technology

Combining gettering process and double-sided $\mu\text{c-Si}$ to improve cell efficiency and module power.

Up to 95% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.

No LID, No PID

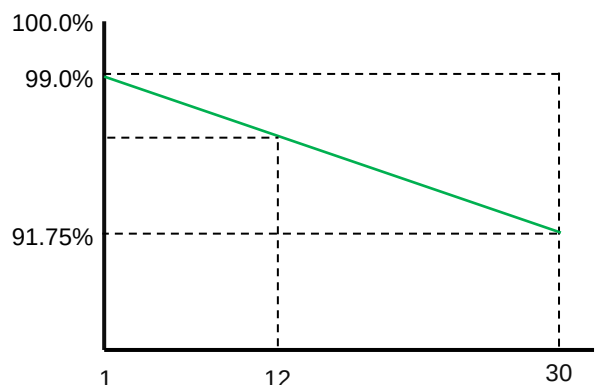
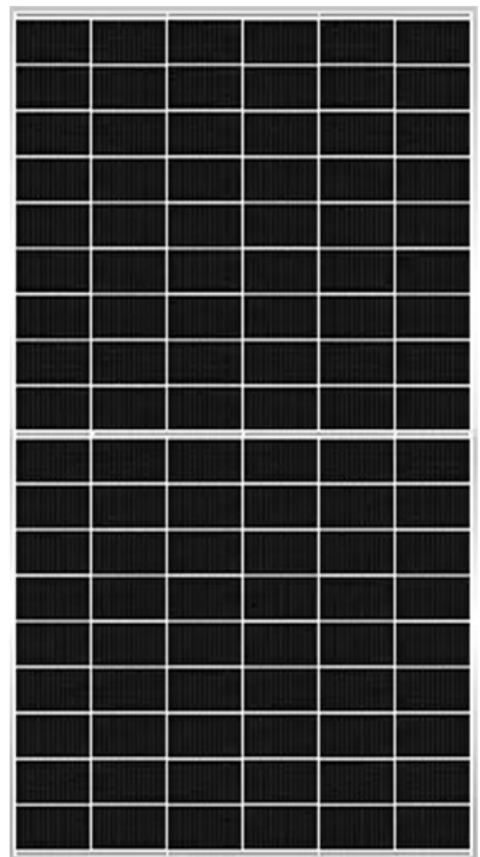
Better performance and efficiency, ultra-high power generation.

Sealing with PIB

Stronger water resistance, greater air impermeability to extend module lifespan.

Suitable for Utility project

Lower BOS cost, lower LCOE.



15 years
Product
Warranty

30 years
Linear Power
Warranty

1.0%
First-year
Degradation

0.30%
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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www.oyungsolar.com

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Mechanical Parameters

Cell Type	N-type HJT
No. of cells	108 (54×2)
Dimension	1960×1134×30mm
Weight	27.4kg
Front Glass	2.0 mm, anti-reflection coating
Back Glass	2.0 mm, heat strengthened glass
Frame	anodized aluminium alloy
Junction Box	IP68 rated
Protection Class	Class II
IEC Fire Type	Class C
Output Cables	4.0mm ² , (+): 350mm, (-): 250mm, or customized length

Packaging Configuration

Pallet Dimentions	/
Packaging Detail	36pcs/pallet, 864pcs/40'HC

Specifications (STC)

Maximum Power (Pmax/W)	495	500	505	510	515	520
Maximum Power Voltage (Vmp/V)	34.05	34.16	34.27	34.38	34.49	34.60
Maximum Power Current (Imp/A)	14.54	14.64	14.74	14.84	14.94	15.04
Open-circuit Voltage (Voc/V)	40.65	40.76	40.87	40.98	41.09	41.20
Short-circuit Current (Isc/A)	15.37	15.48	15.59	15.70	15.81	15.92
Module Efficiency (STC/%)	22.30	22.50	22.70	22.90	23.20	23.40
Power Tolerance	0~3%					
Temperature Coefficients of Pmax	-0.24%/°C					
Temperature Coefficients of Voc	-0.22%/°C					
Temperature Coefficients of Isc	0.04%/°C					

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

Specifications (BNPI)

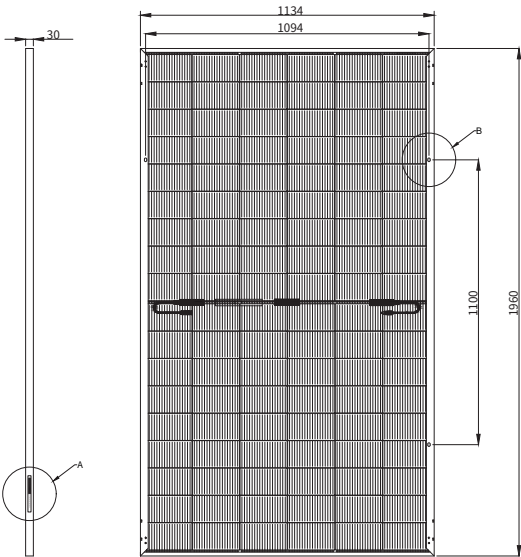
Maximum Power (Pmax/W)	555	560	566	571	577	583
Maximum Power Voltage (Vmp/V)	34.17	34.28	34.39	34.50	34.61	34.72
Maximum Power Current (Imp/A)	16.25	16.36	16.47	16.58	16.69	16.80
Open-circuit Voltage (Voc/V)	40.79	40.90	41.01	41.12	41.23	41.34
Short-circuit Current (Isc/A)	17.24	17.36	17.48	17.61	17.73	17.85

BNPI: Irradiance: front 1000W/m², rear 135W/m², Cell Temperature 25°C, AM=1.5

Application Conditions

Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature - NOCT	44±2°C
Bifaciality	90±5%

Engineering Drawings



Electrical Performance

OSM54NHB 495W

