

# 505W

## N-Type Bifacial



Excellent temperature coefficient (Pmax):  $-0.290\%/^{\circ}\text{C}$



Excellent low-light performance: extended power generation up to 1H or more in the morning and evening



Has lower LID/LeTID attenuation



With a bifacial rate of  $80\% \pm 5\%$ , the bifacial power gain significantly reduces the LCOE as the backside is exposed to more light.



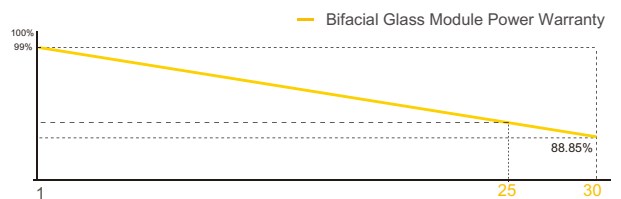
IEC61215:2021/IEC61730:2023  
 IEC61701/IEC62716/IEC60068/IEC62804  
 ISO9001:2015(Quality management systems)  
 ISO14001:2015(Environmental management systems)  
 ISO45001:2018(Occupational health and safety )  
 ISO14067:2018/PAS2050:2011



Guarantee



Warranty



**SPECIFICATION (STC)** Irradiance at 1000 W/m<sup>2</sup>, Cell Temp 25°C, Air Mass AM1.5

MODEL TYPE	ODA495-27V-MHDBRz	ODA500-27V-MHDBRz	ODA505-27V-MHDBRz
Rated Peak Power-Pmax(Wp)	495.00	500.00	505.00
Maximum Power Voltage-Vmp(V)	33.51	33.56	33.61
Maximum Power Current-Imp(A)	14.78	14.90	15.02
Open Circuit Voltage-Voc(V)	39.42±3%	39.48±3%	39.54±3%
Short Circuit Current-Isc(A)	15.70±3%	15.83±3%	15.96±3%
Module Efficiency(%)	22.25	22.47	22.69

**ELECTRICAL DATA(BNPI)** Irradiance at 1000 W/m<sup>2</sup>, Back irradiance 135 W/m<sup>2</sup>, Cell Temp 25°C, Air Mass AM1.5

Rated Peak Power-Pmax(Wp)	549.00	554.00	560.00
Maximum Power Voltage-Vmp(V)	33.61	33.66	33.71
Maximum Power Current-Imp(A)	16.33	16.46	16.60
Open Circuit Voltage-Voc(V)	39.54±3%	39.60±3%	39.66±3%
Short Circuit Current-Isc(A)	17.35±3%	17.49±3%	17.64±3%

**MECHANICAL CHARACTERISTICS**

Cell Type (mm)	182*105 N-Type Mono
No. Of Cells	108(12*9)
Module Dimensions(mm)	1962*1134*30
Weight	27.40 kg
Bifacial Glass Front Glass(mm)	2.0mm AR Coating Tempered Glass
Bifacial Glass Back Glass(mm)	2.0mm Glazed Glass
Frame	Anodized Aluminium Alloy(Black)
Junction Box	IP68, 1500VDC, 3 Schottky Bypass Diodes
Cables	4.0mm <sup>2</sup> , Positive(+)300mm, Negative(-)300mm, Or Customized Length
Connector	IP68
Snow Load/Wind Load	5400Pa/2400Pa
Class Of Safety Protection	Class II
IEC Component Fire Rating	Class A

**OPERATING PARAMETERS**

Maximum System Voltage	1500V
Operational Temp	-40~+85 °C
Max Series Fuse Rating	28A
Nominal Module Operating Temp (NMOT)	45±2°C

**TEMP COEFFICIENT**

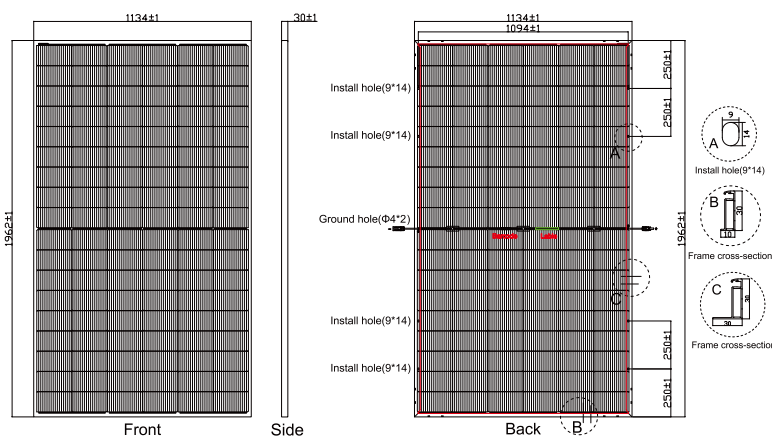
Temp Coefficient Of Pmax	-0.290%/°C
Temp Coefficient Of Voc	-0.250%/°C
Temp Coefficient Of Isc	+0.045%/°C

**PACKING STANDARD 40ft (HQ)**

Number Of Modules Per Pallet	37
Number Of Pallets Per Container	22
Number Of Modules Per Container	814

**ASSEMBLY DRAWING**

Unit:mm



**IV CURVE (500W)**

