



510W

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.



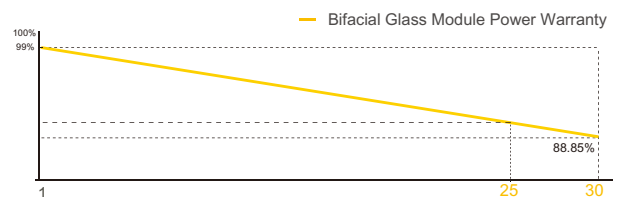
IEC61215:2021/IEC61730:2023
 IEC61701/IEC62716/IEC60068/IEC62804
 ISO9001:2015(Quality management systems)
 ISO14001:2015(Environmental management systems)
 ISO45001:2018(Occupational health and safety)
 ISO14067:2018/PAS2050:2011



Guarantee



Warranty



SPECIFICATION (STC) Irradiance at 1000 W/m², Cell Temp 25°C, Air Mass AM1.5

MODEL TYPE	ODA495-27V-MHDRz	ODA500-27V-MHDRz	ODA505-27V-MHDRz	ODA510-27V-MHDRz
Rated Peak Power-Pmax(Wp)	495.00	500.00	505.00	510.00
Maximum Power Voltage-Vmp(V)	33.51	33.56	33.61	33.66
Maximum Power Current-Imp(A)	14.78	14.90	15.02	15.15
Open Circuit Voltage-Voc(V)	39.42±3%	39.48±3%	39.54±3%	39.60±3%
Short Circuit Current-Isc(A)	15.70±3%	15.83±3%	15.96±3%	16.10±3%
Module Efficiency(%)	22.25	22.47	22.69	22.92

ELECTRICAL DATA(BNPI) Irradiance at 1000 W/m², Back irradiance 135 W/m², Cell Temp 25°C, Air Mass AM1.5

Rated Peak Power-Pmax(Wp)	549.00	554.00	560.00	565.00
Maximum Power Voltage-Vmp(V)	33.61	33.66	33.71	33.76
Maximum Power Current-Imp(A)	16.33	16.46	16.60	16.74
Open Circuit Voltage-Voc(V)	39.54±3%	39.60±3%	39.66±3%	39.72±3%
Short Circuit Current-Isc(A)	17.35±3%	17.49±3%	17.64±3%	17.79±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 ² , 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

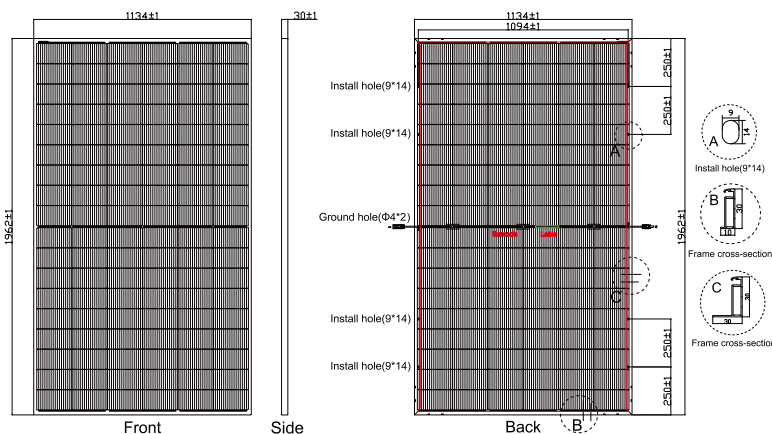
Temp Coefficient Of Pmax	-0.290%/°C
Temp Coefficient Of Voc	-0.250%/°C
Temp Coefficient Of Isc	+0.045%/°C

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)

