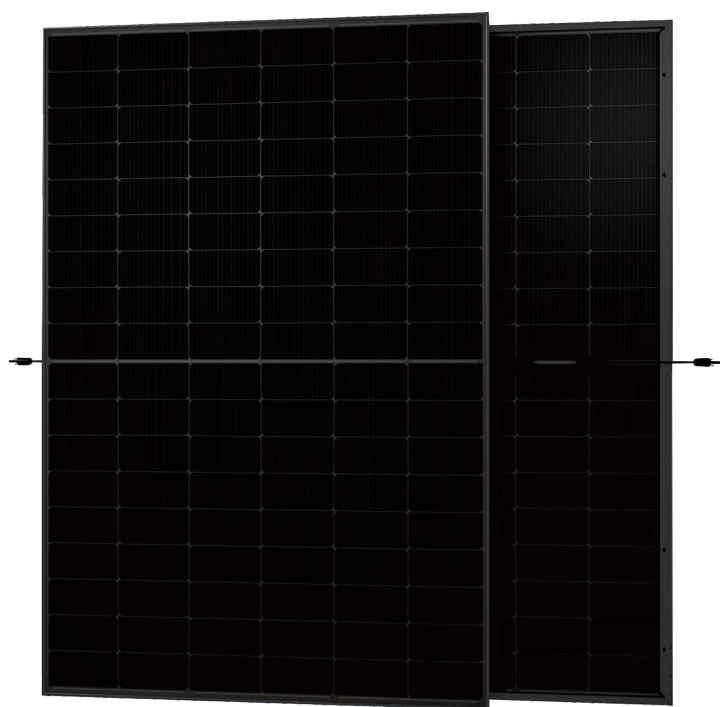


450W

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



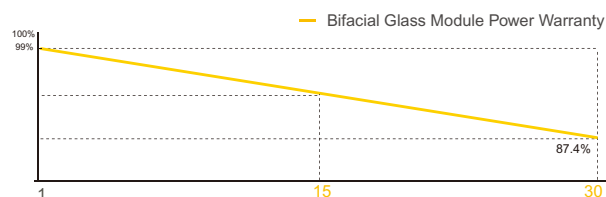
With a bifacial rate of $80\% \pm 5\%$, the bifacial power gain significantly reduces the LCOE as the backside is exposed to more light.



Guarantee



Warranty



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

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

MODEL TYPE	ODA430-27V-MHDB	ODA435-27V-MHDB	ODA440-27V-MHDB	ODA445-27V-MHDB	ODA450-27V-MHDB
Rated Peak Power-Pmax(Wp)	430.00	435.00	440.00	445.00	450.00
Maximum Power Voltage-Vmp(V)	33.57	33.58	33.65	33.72	33.79
Maximum Power Current-Imp(A)	12.81	12.95	13.07	13.20	13.32
Open Circuit Voltage-Voc(V)	39.49±3%	39.51±3%	39.59±3%	39.67±3%	39.75±3%
Short Circuit Current-Isc(A)	13.61±3%	13.76±3%	13.89±3%	14.02±3%	14.15±3%
Module Efficiency(%)	22.02	22.27	22.53	22.79	23.04

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)	477.00	482.00	488.00	493.00	499.00
Maximum Power Voltage-Vmp(V)	33.67	33.68	33.75	33.82	33.89
Maximum Power Current-Imp(A)	14.15	14.31	14.45	14.58	14.72
Open Circuit Voltage-Voc(V)	39.61±3%	39.63±3%	39.71±3%	39.79±3%	39.87±3%
Short Circuit Current-Isc(A)	15.04±3%	15.20±3%	15.35±3%	15.49±3%	15.64±3%

MECHANICAL CHARACTERISTICS

Cell Type (mm)	182*91 N-Type Mono
No. Of Cells	108(12*9)
Module Dimensions(mm)	1722*1134*30
Weight	24.70 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	25A
Nominal Module Operating Temp (NMOT)	45±2°C

TEMP COEFFICIENT

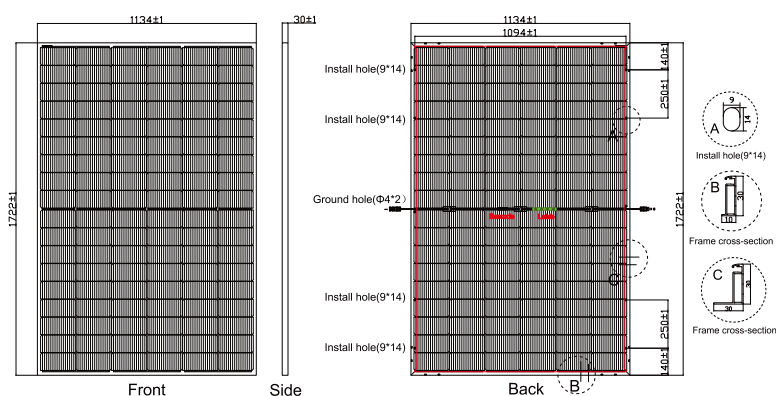
Temp Coefficient Of Pmax	-0.290%/°C
Temp Coefficient Of Voc	-0.250%/°C
Temp Coefficient Of Isc	+0.045%/°C

PACKING STANDARD 40ft (HQ)

Number Of Modules Per Pallet	37
Number Of Pallets Per Container	26
Number Of Modules Per Container	962

ASSEMBLY DRAWING

Unit:mm



IV CURVE (450W)

