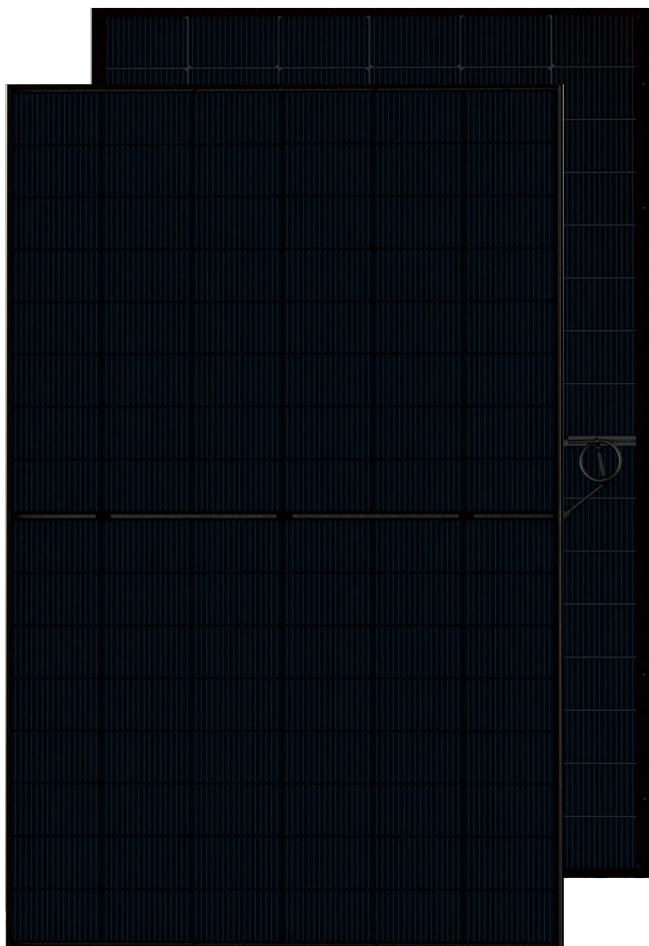
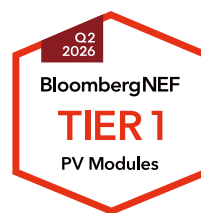




470W

N-Type Bifacial



Excellent temperature coefficient (Pmax): $-0.280\%/^{\circ}\text{C}$



Excellent low-light performance: enhanced power generation during morning and evening hours



Lower LID/LeTID attenuation



With a bifaciality factor of $80\% \pm 5\%$, the module captures available rear-side irradiance to increase energy yield and help lower the LCOE



IEC61215:2021/IEC61730:2023

IEC61701/IEC62716/IEC60068/IEC62804

ISO9001:2015(Quality management systems)

ISO14001:2015(Environmental management systems)

ISO45001:2018(Occupational health and safety)

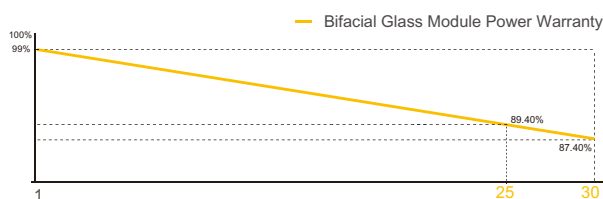
ISO14067:2018/PAS2050:2011



**Product
Guarantee**



**Performance
Warranty**



SPECIFICATION (STC) Irradiance at 1000 W/m², Cell Temp 25°C, Air Mass AM1.5 *Measuring tolerance: ±3%

MODEL TYPE	ODA450-24V-MHDBRz	ODA455-24V-MHDBRz	ODA460-24V-MHDBRz	ODA465-24V-MHDBRz	ODA470-24V-MHDBRz
Rated Peak Power-P _{max} (Wp)*	450.00	455.00	460.00	465.00	470.00
Maximum Power Voltage-V _{mp} (V)	29.38	29.43	29.47	29.51	29.55
Maximum Power Current-I _{mp} (A)	15.31	15.46	15.60	15.76	15.91
Open Circuit Voltage-V _{oc} (V)*	34.57	34.62	34.67	34.72	34.77
Short Circuit Current-I _{sc} (A)*	16.27	16.43	16.58	16.74	16.90
Module Efficiency(%)	22.52	22.77	23.01	23.27	23.53

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

Rated Peak Power-P _{max} (Wp)*	499.00	504.00	510.00	515.00	521.00
Maximum Power Voltage-V _{mp} (V)	29.47	29.52	29.56	29.60	29.64
Maximum Power Current-I _{mp} (A)	16.92	17.09	17.24	17.41	17.58
Open Circuit Voltage-V _{oc} (V)*	34.67	34.72	34.77	34.82	34.87
Short Circuit Current-I _{sc} (A)*	17.98	18.16	18.32	18.50	18.67

MECHANICAL CHARACTERISTICS *EVO2 available upon request

Cell Type (mm)	182*105 N-Type Mono
No. Of Cells	96(12*8)
Module Dimensions(mm)	1762*1134*30
Weight	24.70 kg
Front Glass(mm)	2.0mm AR Coating Tempered Glass
Black 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	HC4/HYG-01/Others*
Maximum Test 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

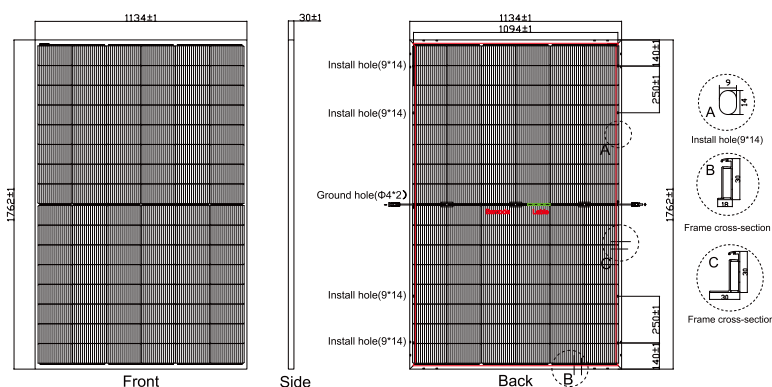
Temp Coefficient Of P _{max}	-0.280%/°C
Temp Coefficient Of V _{oc}	-0.230%/°C
Temp Coefficient Of I _{sc}	+0.030%/°C

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 (470W)

