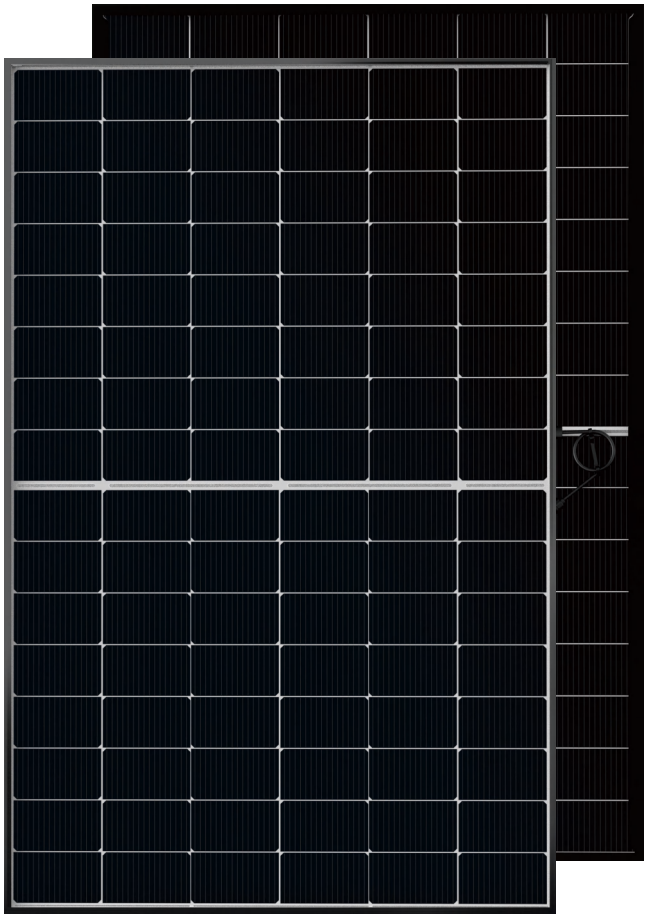
Osda N PRO

470W

N-Type Bifacial



EUPD RESEARCH TOP BRAND PV MODULES BRAZIL 2025

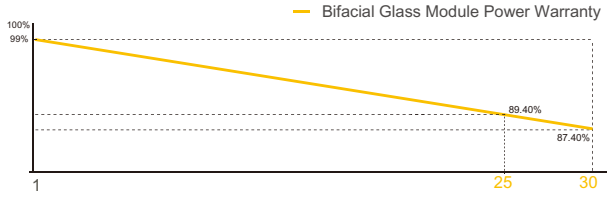
Q3 2026 BloombergNEF TIER 1 PV Modules

TOP PV Brand

- Excellent temperature coefficient (Pmax): -0.280%/°C
- Excellent low-light performance: enhanced power generation during morning and evening hours
- Lower LID/LeTID attenuation
- With a bifaciality factor of 80% ± 5%, the module captures available rear-side irradiance to increase energy yield and help lower the LCOE

25 YEARS **Product Guarantee**

30 YEARS **Performance 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

NINGBO OSDA SOLAR CO., LTD.

400-1009967 | www.osdasol.com | sales@osdasol.com

Building F0001, No. 77, Zhuangxing Road, Jiangbei District, Ningbo City, Zhejiang Province, China

The latest product dimensions and parameters shall prevail. Changes may be made without prior notice.

Osda

GLOBAL INTEGRATED SMART ENERGY SOLUTIONS PROVIDER

SPECIFICATION (STC)

Irradiance at 1000 W/m², Cell Temp 25°C,Air Mass AM1.5 *Measuring tolerance:±3% Power tolerance:0~+3%

MODEL TYPE	ODA450-24V-MHDRz	ODA455-24V-MHDRz	ODA460-24V-MHDRz	ODA465-24V-MHDRz	ODA470-24V-MHDRz
Rated Peak Power-Pmax(Wp)*	450.00	455.00	460.00	465.00	470.00
Maximum Power Voltage-Vmp(V)	29.38	29.43	29.47	29.51	29.55
Maximum Power Current-Imp(A)	15.31	15.46	15.60	15.76	15.91
Open Circuit Voltage-Voc(V)*	34.57	34.62	34.67	34.72	34.77
Short Circuit Current-Isc(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 ilrradiance 135 W/m², Cell Temp 25°C,Air Mass AM1.5

Rated Peak Power-Pmax(Wp)*	499.00	504.00	510.00	515.00	521.00
Maximum Power Voltage-Vmp(V)	29.47	29.52	29.56	29.60	29.64
Maximum Power Current-Imp(A)	16.92	17.09	17.24	17.41	17.58
Open Circuit Voltage-Voc(V)*	34.67	34.72	34.77	34.82	34.87
Short Circuit Current-Isc(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
Back Glass(mm)	2.0mm Glazed Glass
Frame	Anodized Aluminium Alloy(Black)
Junction Box	IP68,1500VDC, 3 Schottky Bypass Diodes
Cables	4.0mm²,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℃

TEMP COEFFICIENT

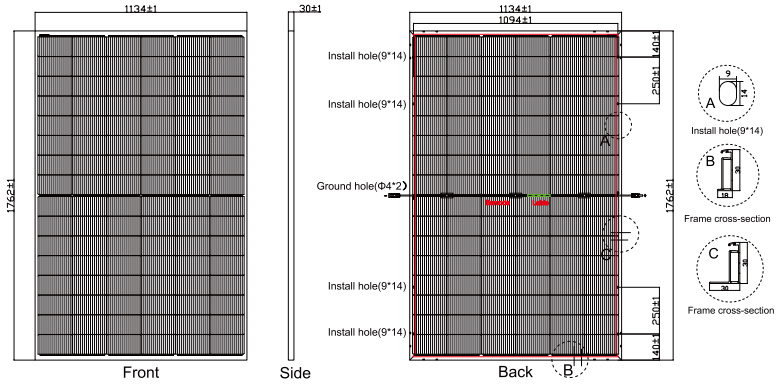
Temp Coefficient Of Pmax	-0.280%/℃
Temp Coefficient Of Voc	-0.230%/℃
Temp Coefficient Of Isc	+0.030%/℃

PACKING STANDARD 40ft（HQ)

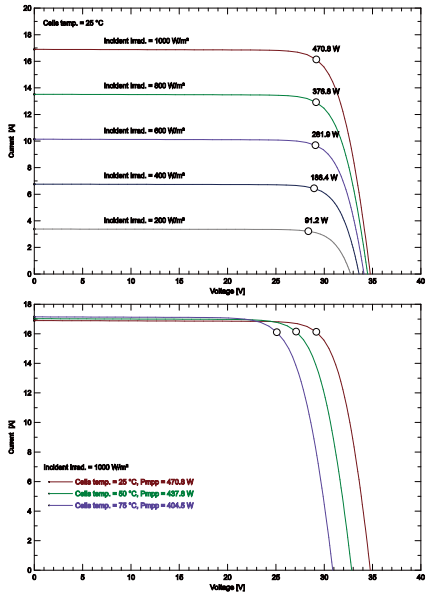
Number Of Modules Per Pallet	37
Number Of Pallets Per Container	26
Number Of Modules Per Container	962

ASSEMBLY DRAWING

Unit:mm



IV CURVE (470W)



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