Osda N PRO

505W

N-Type Bifacial



EUPD RESEARCH TOP BRAND PV MODULES BRAZIL 2025

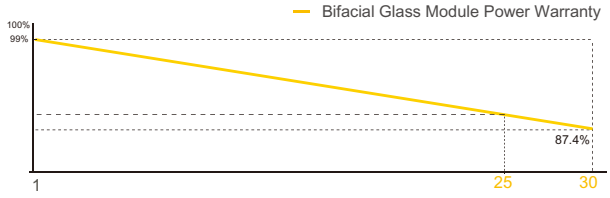
TIER 1 Bloomberg NEW ENERGY FINANCE

TOP PV Brand

- Excellent temperature coefficient (Pmax): -0.290%/°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% ± 5%, the bifacial power gain significantly reduces the LCOE as the backside is exposed to more light.

25 YEARS Guarantee

30 YEARS 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

Osda

GLOBAL INTEGRATED SMART ENERGY SOLUTIONS PROVIDER

SPECIFICATION (STC) Irradiance at 1000 W/m², 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/m², Back ilrradiance 135 W/m², 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	4.0mm²,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℃

TEMP COEFFICIENT

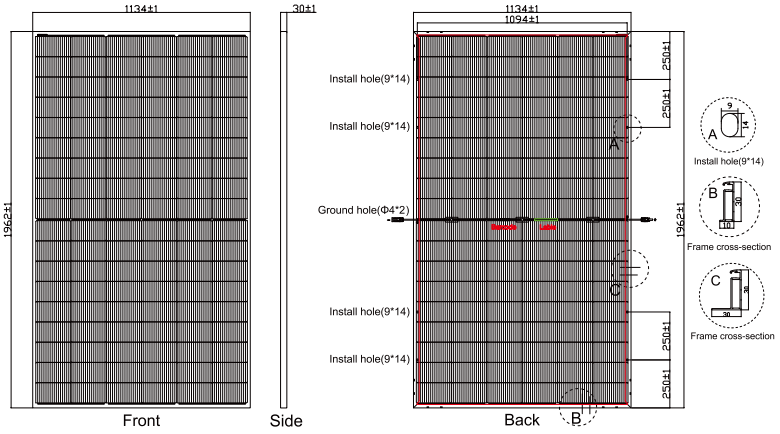
Temp Coefficient Of Pmax	-0.290%/℃
Temp Coefficient Of Voc	-0.250%/℃
Temp Coefficient Of Isc	+0.045%/℃

PACKING STANDARD 40ft（HQ)

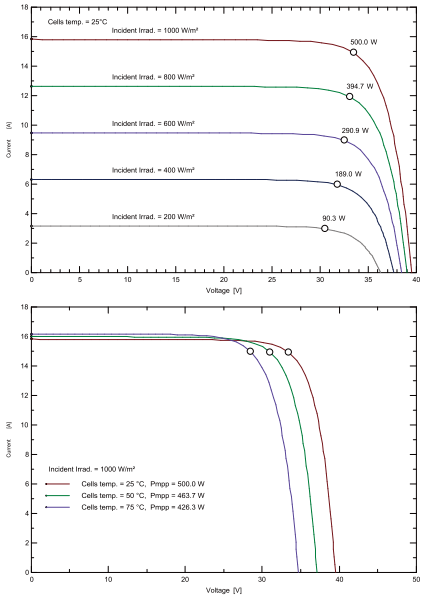
Number Of Modules Per Pallet	37
Number Of Pallets Per Container	22
Number Of Modules Per Container	814

ASSEMBLY DRAWING

Unit:mm



IV CURVE (500W)



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