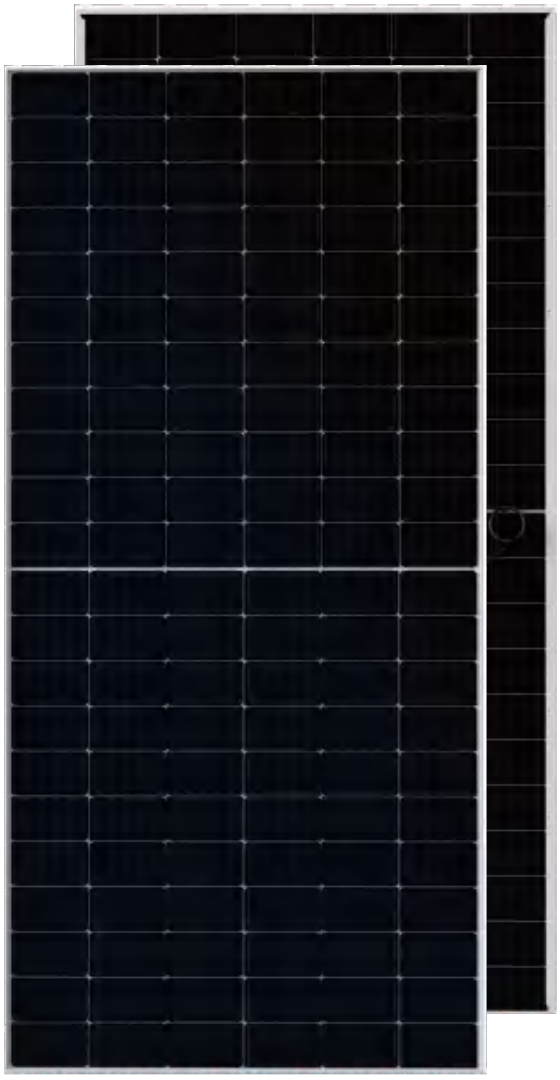
Osda N PRO

# 650W

N-Type Bifacial



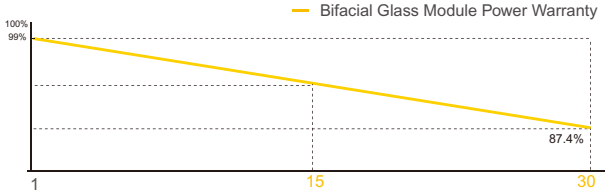
EUPD RESEARCH TOP BRAND PV MODULES BRAZIL 2025

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.

15 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

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Osda

GLOBAL SMART ENERGY
SOLUTION PROVIDER

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

| MODEL TYPE | ODA630-33V-MHDRz | ODA635-33V-MHDRz | ODA640-33V-MHDRz | ODA645-33V-MHDRz | ODA650-33V-MHDRz |
|---|---|---|---|---|---|
| Rated Peak Power-Pmax(Wp) | 630.00 | 635.00 | 640.00 | 645.00 | 650.00 |
| Maximum Power Voltage-Vmp(V) | 41.55 | 41.59 | 41.63 | 41.68 | 41.72 |
| Maximum Power Current-Imp(A) | 15.16 | 15.27 | 15.37 | 15.47 | 15.58 |
| Open Circuit Voltage-Voc(V) | 48.88±3% | 48.93±3% | 48.98±3% | 49.03±3% | 49.08±3% |
| Short Circuit Current-Isc(A) | 16.11±3% | 16.22±3% | 16.33±3% | 16.44±3% | 16.55±3% |
| Module Efficiency(%) | 23.32 | 23.51 | 23.69 | 23.87 | 24.06 |

## 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) | 698.00 | 704.00 | 709.00 | 715.00 | 720.00 |
| Maximum Power Voltage-Vmp(V) | 41.67 | 41.72 | 41.76 | 41.80 | 41.84 |
| Maximum Power Current-Imp(A) | 16.75 | 16.87 | 16.98 | 17.10 | 17.21 |
| Open Circuit Voltage-Voc(V) | 49.03±3% | 49.08±3% | 49.13±3% | 49.18±3% | 49.23±3% |
| Short Circuit Current-Isc(A) | 17.80±3% | 17.92±3% | 18.04±3% | 18.17±3% | 18.29±3% |

## MECHANICAL CHARACTERISRTICS

| | |
|---|---|
| Cell Type (mm) | 182*105 N-Type Mono |
| No. Of Cells | 132(12*11) |
| Module Dimensions(mm) | 2382*1134*30 |
| Weight | 32.40 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(Silver) |
| 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°C |

## TEMP COEFFICIENT

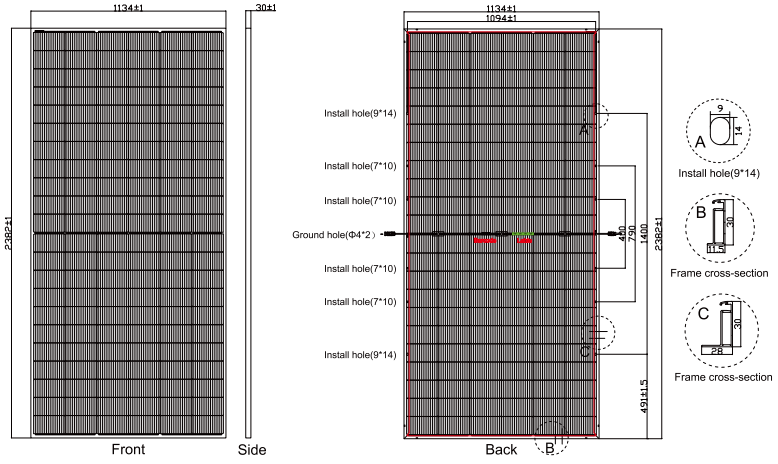
| | |
|---|---|
| Temp Coefficient Of Pmax | -0.290%/°C |
| Temp Coefficient Of Voc | -0.250%/°C |
| Temp Coefficient Of Isc | +0.045%/°C |

## PACKING STANDARD 40ft（HQ)

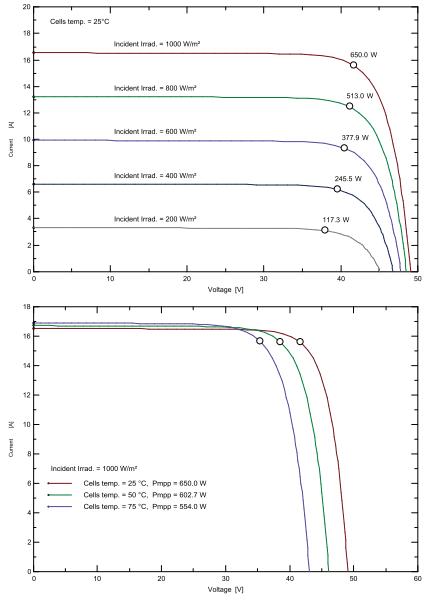
| | |
|---|---|
| Number Of Modules Per Pallet | 37 |
| Number Of Pallets Per Container | 20 |
| Number Of Modules Per Container | 740 |

## ASSEMBLY DRAWING

Unit:mm




## IV CURVE (650W)





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