

# 610-630W

N-Type Bifacial



Excellent temperature coefficient (Pmax):  $-0.29/^{\circ}\text{C}$



Excellent low-light performance: extended power generation up to 1H or so in the morning and evening



Has lower LID/LeTID attenuation



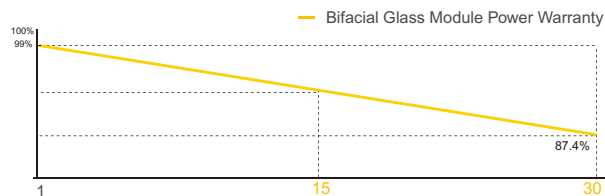
With a bifacial rate of  $80\% \pm 10\%$ , the bifacial power gain significantly reduces the LCOE as the backside is exposed to more light.



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                   | ODA610-33V-MHDRz | ODA615-33V-MHDRz | ODA620-33V-MHDRz | ODA625-33V-MHDRz | ODA630-33V-MHDRz |
|------------------------------|------------------|------------------|------------------|------------------|------------------|
| Rated Peak Power-Pmax(Wp)    | 610.00           | 615.00           | 620.00           | 625.00           | 630.00           |
| Maximum Power Voltage-Vmp(V) | 40.46            | 40.60            | 40.74            | 40.88            | 41.02            |
| Maximum Power Current-Imp(A) | 15.08            | 15.15            | 15.22            | 15.29            | 15.36            |
| Open Circuit Voltage-Voc(V)  | 48.68±3%         | 48.88±3%         | 49.08±3%         | 49.28±3%         | 49.48±3%         |
| Short Circuit Current-Isc(A) | 15.96±3%         | 16.02±3%         | 16.08±3%         | 16.14±3%         | 16.20±3%         |
| Module Efficiency(%)         | 22.60            | 22.80            | 23.00            | 23.10            | 23.30            |

**ELECTRICAL DATA(NMOT)** Irradiance at 800 W/m², Ambient Temp 20°C, Wind Speed 1 m/s.

|                              |          |          |          |          |          |
|------------------------------|----------|----------|----------|----------|----------|
| Rated Peak Power-Pmax(Wp)    | 462.00   | 466.00   | 469.00   | 473.00   | 477.00   |
| Maximum Power Voltage-Vmp(V) | 38.28    | 38.41    | 38.54    | 38.67    | 38.80    |
| Maximum Power Current-Imp(A) | 12.07    | 12.13    | 12.17    | 12.23    | 12.29    |
| Open Circuit Voltage-Voc(V)  | 46.05±3% | 46.24±3% | 46.43±3% | 46.62±3% | 46.81±3% |
| Short Circuit Current-Isc(A) | 12.73±3% | 12.80±3% | 12.84±3% | 12.90±3% | 12.97±3% |

**DOUBLE-SIDED POWER GENERATION PARAMETERS(REAR GAIN)**

|     |                      |        |        |        |        |        |
|-----|----------------------|--------|--------|--------|--------|--------|
| 5%  | Maximum Power(Pmax)  | 640.50 | 645.75 | 651.00 | 656.25 | 661.50 |
|     | Module Efficiency(%) | 23.73  | 23.94  | 24.15  | 24.26  | 24.47  |
| 15% | Maximum Power(Pmax)  | 701.50 | 707.25 | 713.00 | 718.75 | 724.50 |
|     | Module Efficiency(%) | 25.99  | 26.22  | 26.45  | 26.57  | 26.80  |
| 25% | Maximum Power(Pmax)  | 762.50 | 768.75 | 775.00 | 781.25 | 787.50 |
|     | Module Efficiency(%) | 28.25  | 28.50  | 28.75  | 28.88  | 29.13  |

**MECHANICAL CHARACTERISTICS**

|                                |                                                                  |
|--------------------------------|------------------------------------------------------------------|
| Cell Type (mm)                 | 182*105 N-Type Mono                                              |
| No. Of Cells                   | 132(12*11)                                                       |
| Module Dimensions(mm)          | 2384*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(+)350mm, Negative(-)350mm, Or Customized Length |
| Connector                      | IP68                                                             |
| Snow Load/Wind Load            | 5400Pa/2400Pa                                                    |
| Class Of Safety Protection     | Class II                                                         |
| IEC Component Fire Rating      | Class C                                                          |

**OPERATING PARAMETERS**

|                                      |            |
|--------------------------------------|------------|
| Maximum System Voltage               | 1500V      |
| Operational Temp                     | -40~+85 °C |
| Max Series Fuse Rating               | 35A        |
| Nominal Module Operating Temp (NMOT) | 45±2°C     |

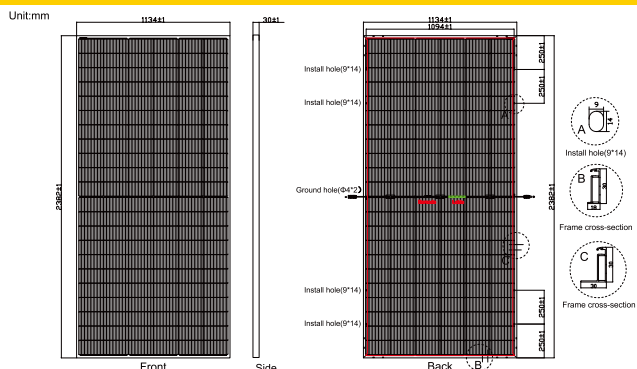
**TEMP COEFFICIENT**

|                          |            |
|--------------------------|------------|
| 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**



**IV CURVE (630W)**

