

# 455W

N-Type Monofacial



Excellent temperature coefficient (Pmax):  $-0.290\%/^{\circ}\text{C}$



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



Has lower LID/LeTID attenuation



Excellent mechanical load resistance, 2400Pa wind load, 5400Pa snow load



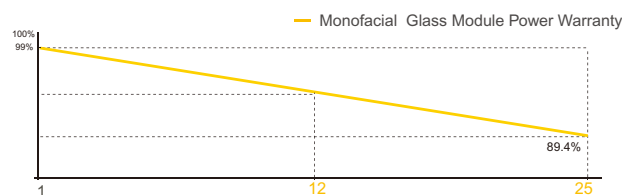
IEC61215:2021/IEC61730:2023  
IEC61701/IEC62716/IEC60068/IEC62804  
ISO9001:2015(Quality management systems)  
ISO14001:2015(Environmental management systems)  
ISO45001:2018(Occupational health and safety )  
ISO14067:2018/PAS2050:2011



Guarantee



Warranty



**SPECIFICATION (STC)** Irradiance at 1000 W/m<sup>2</sup>, Cell Temp 25°C, Air Mass AM1.5

| MODEL TYPE                                | ODA435-27V-MH | ODA440-27V-MH | ODA445-27V-MH | ODA450-27V-MH | ODA455-27V-MH |
|-------------------------------------------|---------------|---------------|---------------|---------------|---------------|
| Rated Peak Power-P <sub>max</sub> (Wp)    | 435.00        | 440.00        | 445.00        | 450.00        | 455.00        |
| Maximum Power Voltage-V <sub>mp</sub> (V) | 33.66         | 33.72         | 33.78         | 33.84         | 33.90         |
| Maximum Power Current-I <sub>mp</sub> (A) | 12.92         | 13.04         | 13.18         | 13.30         | 13.42         |
| Open Circuit Voltage-V <sub>oc</sub> (V)  | 39.60±3%      | 39.67±3%      | 39.74±3%      | 39.81±3%      | 39.88±3%      |
| Short Circuit Current-I <sub>sc</sub> (A) | 13.73±3%      | 13.86±3%      | 14.00±3%      | 14.13±3%      | 14.26±3%      |
| Module Efficiency(%)                      | 22.28         | 22.53         | 22.79         | 23.04         | 23.30         |

**MECHANICAL CHARACTERISTICS**

|                                  |                                                                                |
|----------------------------------|--------------------------------------------------------------------------------|
| Cell Type (mm)                   | 182*91 N-Type Mono                                                             |
| No. Of Cells                     | 108(12*9)                                                                      |
| Module Dimensions(mm)            | 1722*1134*30                                                                   |
| Weight                           | 21.50kg                                                                        |
| Monofacial Glass Front Glass(mm) | 3.2mm AR Coating Tempered Glass                                                |
| Frame                            | Anodized Aluminium Alloy(Silver)                                               |
| Junction Box                     | IP68, 1500VDC, 3 Schottky Bypass Diodes                                        |
| Cables                           | 4.0mm <sup>2</sup> , 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 C                                                                        |

**TEMP COEFFICIENT**

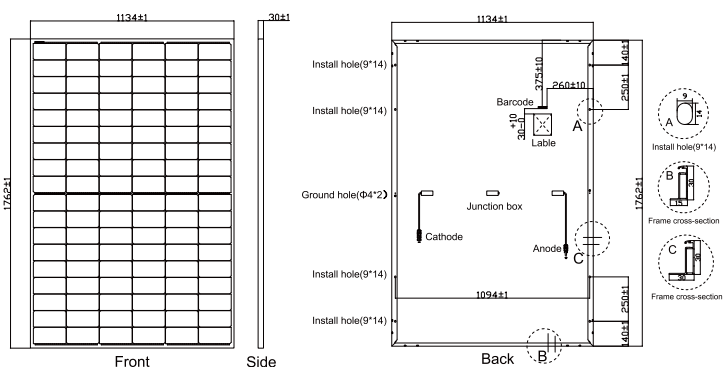
|                                      |            |
|--------------------------------------|------------|
| Temp Coefficient Of P <sub>max</sub> | -0.290%/°C |
| Temp Coefficient Of V <sub>oc</sub>  | -0.250%/°C |
| Temp Coefficient Of I <sub>sc</sub>  | +0.045%/°C |

**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



**OPERATING PARAMETERS**

|                                      |            |
|--------------------------------------|------------|
| Maximum System Voltage               | 1500V      |
| Operational Temp                     | -40~+85 °C |
| Max Series Fuse Rating               | 20A        |
| Nominal Module Operating Temp (NMOT) | 45±2°C     |

**IV CURVE (450W)**

