

# TG-HDN-435-455

## N-type Double Glass

Mono crystalline series module. Select the best quality N-type mono crystalline cell and production process. Professional technology and reliable quality. Provide excellent guarantee for the system power generation.



## EFFICIENT POWER GENERATION PURSUIT OF EXCELLENCE N-TOPCON Ultra-thin Glass



### 1.1mm

The world's first breakthrough 1.1mm thick double glass module with superior impact resistance.



### Easy installation

The whole module is at least 35% lighter than the regular double glass module in the market. Light and easy to install.



### Fast heat-dissipation

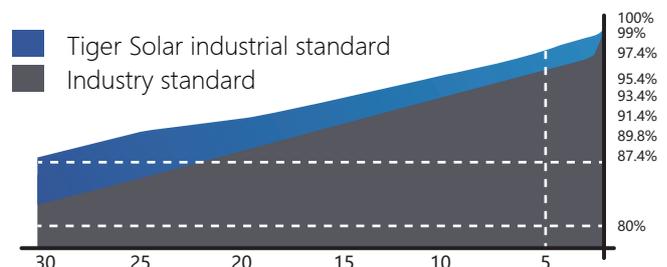
Good heat dissipation, 50% better heat dissipation with back glass. More continuous and stable power generation.



### Highly fire-resistant

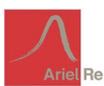
Good fire prevention. Overall module fire prevention up to the highest Class A level.

15 years Product Warranty  
30 years Linear Power Warranty

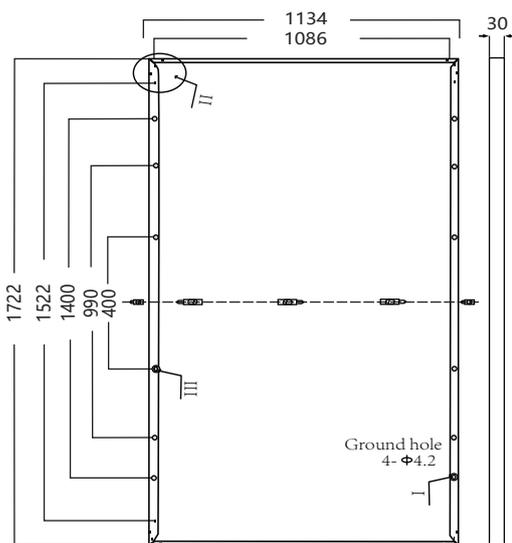
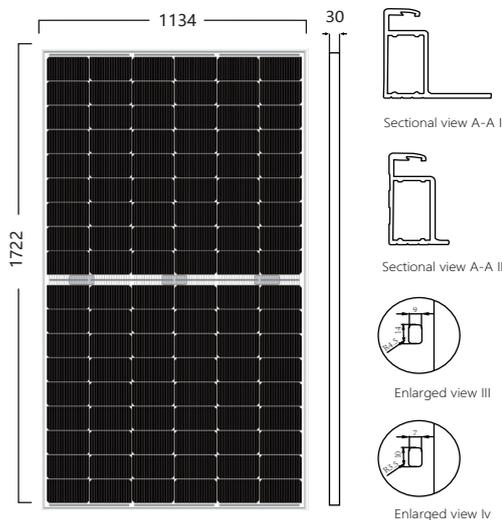


## Qualification and Certification

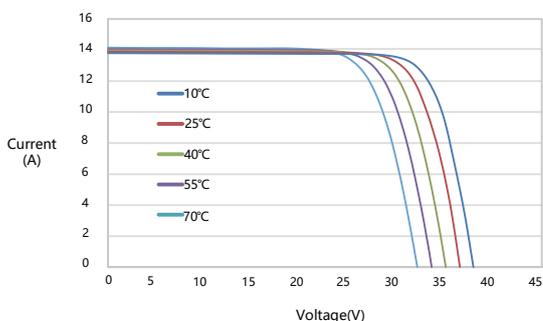
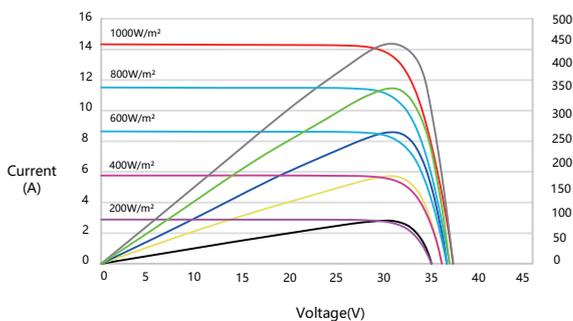
IEC 61215, IEC 61730, CE, CQC,  
ISO 9001: 2015, ISO 14001: 2015,  
BS OHSAS 18001:2018



## MODULE SIZE



## I-V CURVE



## ELECTRICAL PERFORMANCE PARAMETERS UNDER STANDARD TEST CONDITIONS(STC)

|                                    |        |        |        |        |                    |
|------------------------------------|--------|--------|--------|--------|--------------------|
| Power output                       | 435Wp  | 440Wp  | 445Wp  | 450Wp  | 455Wp              |
| Voltage at Pmax                    | 32.99V | 33.22V | 33.45V | 33.68V | 33.91V             |
| Current at Pmax                    | 13.19A | 13.25A | 13.31A | 13.37A | 13.43A             |
| Open-circuit voltage               | 38.66V | 38.81V | 38.96V | 39.11V | 39.26V             |
| Short-circuit current              | 13.97A | 14.05A | 14.13A | 14.21A | 14.29A             |
| Module Efficiency(%)               | 22.27% | 22.53% | 22.78% | 23.04% | 23.30%             |
| Operating temperature range        |        |        |        |        | -40°C ~ +85°C      |
| Max. system voltage                |        |        |        |        | 1000/1500VDC (IEC) |
| Max. series fuse rating            |        |        |        |        | 25A                |
| Power tolerance                    |        |        |        |        | 0~+5%              |
| Temperature coefficient of Pmax    |        |        |        |        | -0.29%/°C          |
| Temperature coefficient of Voc     |        |        |        |        | -0.25%/°C          |
| Temperature coefficient of Isc     |        |        |        |        | 0.045%/°C          |
| Nominal operating cell temperature |        |        |        |        | 45±2°C             |

STC: irradiance 1000W/m<sup>2</sup>, module temperature 25°C, air quality AM=1.5, according to EN 60904-3.  
Nominal operating temperature: under the condition of irradiance 800W/m<sup>2</sup>, environment temperature 20°C, wind speed 1m/s, the operating temperature of the module is in the open circuit state.

## STRUCTURAL PARAMETERS

|                  |   |
|------------------|---|
| Cell Type        | MONO Crystalline Cell   |
| Cell orientation | 108 (2*54)  |
| Dimensions       | 1722*1134*30mm  |
| Weight           | 16KG  |
| Glass            | 1.1mm High Transmittance Glass  |
| Frame            | Anodized Aluminium Alloy  |
| J-Box            | Protection Class IP68   |
| Output Cables    | TüV1×4.0mm <sup>2</sup> , Cable Length: (+): 300mm, (-): 300mm; Or Customerized |

\*Because the continuous innovation, research and product upgrades, the contents of this product specification are allowed to change without prior notice. These contents may contain some deviation, and are not guaranteed.

This data is not specific to one module, nor is part of the sale activities, but is used to compare different models of module.

Regarding technical changes and specific explanations of test conditions, our company reserves the right of final interpretation.

## PACKAGE STANDARD

|                      |   |
|----------------------|---|
| Container            | 40 HQ                                     |
| Size Per Pallet (mm) | 1758*1110*1280                            |
| Module Per Package   | 36 Pieces/Pallet                          |
| Quantity Loaded      | 26 Pallets/Container 936 Pieces/Container |

\*The final data of packaging is subject to logistic company.  
Above data is just for reference.



Warning: Please read the module installation instruction carefully before handling, installing and operating.

## TIGER SOLAR Co.,Ltd

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