

# TNC<sup>2.0</sup>

## N-type Half-cell Bifacial Module (66)

TWMNF-66HD



Higher power generation, lower LCOE



Higher power output, higher conversion efficiency

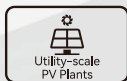


Enhanced reliability performance

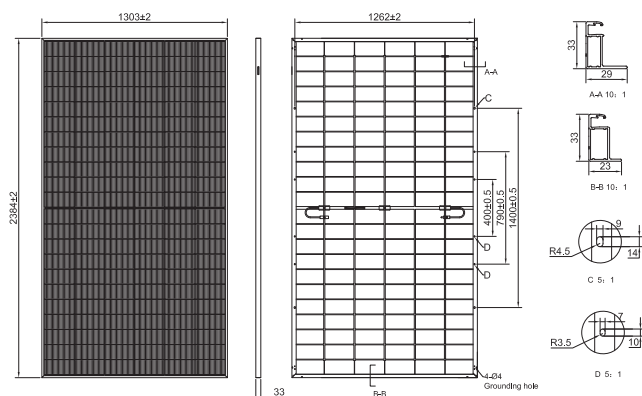


Higher bifaciality, superior energy yield

720-740W



## Drawings (Unit: mm)



## Electrical Characteristics (STC)

Module type: TWMNF-66HDXXX

|                                               |       |       |       |       |       |
|-----------------------------------------------|-------|-------|-------|-------|-------|
| Maximum Power: P <sub>max</sub> [W]           | 720   | 725   | 730   | 735   | 740   |
| Open Circuit Voltage: V <sub>oc</sub> [V]     | 49.28 | 49.45 | 49.55 | 49.65 | 49.80 |
| Short Circuit Current: I <sub>sc</sub> [A]    | 18.55 | 18.60 | 18.68 | 18.75 | 18.81 |
| Voltage at Maximum Power: V <sub>mp</sub> [V] | 41.03 | 41.20 | 41.37 | 41.53 | 41.69 |
| Current at Maximum Power: I <sub>mp</sub> [A] | 17.55 | 17.60 | 17.65 | 17.70 | 17.75 |
| Module Efficiency: η [%]                      | 23.2  | 23.3  | 23.5  | 23.7  | 23.8  |

\*STC: Irradiance = 1,000 W/m<sup>2</sup>; Cell temperature = 25°C; AM = 1.5, Power measurement tolerance: ±3%

## Electrical characteristics with different rear side power gain

|                                     |      |      |      |      |      |
|-------------------------------------|------|------|------|------|------|
| Maximum Power: P <sub>max</sub> [W] | 756  | 761  | 766  | 771  | 777  |
| Efficiency: η [%]                   | 24.3 | 24.5 | 24.7 | 24.8 | 25.0 |
| Maximum Power: P <sub>max</sub> [W] | 828  | 833  | 839  | 845  | 851  |
| Efficiency: η [%]                   | 26.7 | 26.8 | 27.0 | 27.2 | 27.4 |
| Maximum Power: P <sub>max</sub> [W] | 900  | 906  | 912  | 918  | 925  |
| Efficiency: η [%]                   | 29.0 | 29.2 | 29.4 | 29.6 | 29.8 |

## Temperature Rating

|                                             |            |
|---------------------------------------------|------------|
| Temperature Coefficient of P <sub>max</sub> | -0.28%/°C  |
| Temperature Coefficient of V <sub>oc</sub>  | -0.24%/°C  |
| Temperature Coefficient of I <sub>sc</sub>  | +0.046%/°C |

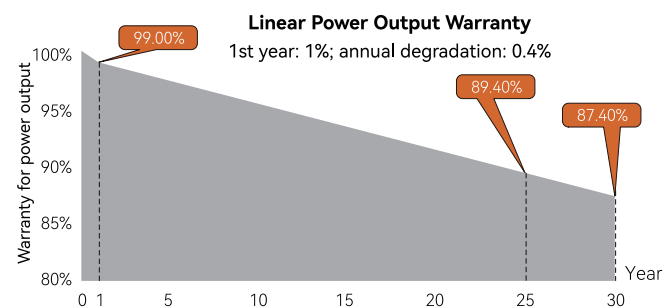
## Operating Parameters

|                            |             |
|----------------------------|-------------|
| Operating Temperature      | -40°C~+85°C |
| Maximum System Voltage     | 1500V DC    |
| Maximum Series Fuse Rating | 35A         |
| Power Output Tolerance     | 0~+3%       |
| Bifaciality                | 80±5%       |

## Mechanical Parameters

|                          |                                                         |
|--------------------------|---------------------------------------------------------|
| Cell Type                | TNC                                                     |
| Cell Orientation         | 132 [6×22]                                              |
| Dimension                | 2384±2×1303±2×33mm                                      |
| Weight                   | 37.3 kg                                                 |
| Front Glass              | 2.0 mm AR coating semi tempered glass                   |
| Rear Glass               | 2.0 mm semi tempered glass                              |
| Frame                    | Anodized aluminum alloy frame                           |
| Junction Box             | IP68, 3 diodes                                          |
| Cable                    | 4.0 mm <sup>2</sup>                                     |
| Cable Length             | +400 mm, -200 mm or ±1,400 mm; length can be customized |
| Maximum Static Test Load | 5,400 Pa (front) / 2,400 Pa (rear)                      |
| Packaging (Per pallet)   | 33 pcs                                                  |
| Packaging                | 594 pcs per 40'HC                                       |

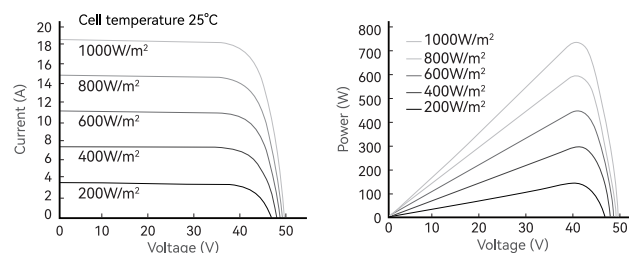
## Warranty



**12** 12-Year Material and Workmanship Warranty

**30** 30-Year Linear Power Output Warranty

## Curve



## Certifications

### Quality Management System and Product Certification

ISO 9001: 2015 / Quality Management System  
ISO 14001: 2015 / Environmental Management System  
ISO 45001: 2018 / Occupational Health and Safety Management System  
ISO 50001: 2018 / Energy Management System  
IEC 62941: 2019 / Quality System for PV Module Manufacturing  
IEC 61215 / IEC 61730, IEC TS 62804,  
IEC 61701, IEC 62716, IEC 60068-2-68



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