



A wide-angle photograph of a massive solar farm. The solar panels are arranged in long, parallel rows across a green field. Interspersed between the panels are rows of young yellow trees, creating a pattern of light and dark green. In the background, there's a dense line of mature trees under a clear blue sky.

High Power Output  
Low LCOE



Maximum Power  
720W+



## TWMNF N-type Half-cell Bifacial Module(66) **66HD700-720W**

[www.tongwei.com.cn](http://www.tongwei.com.cn)



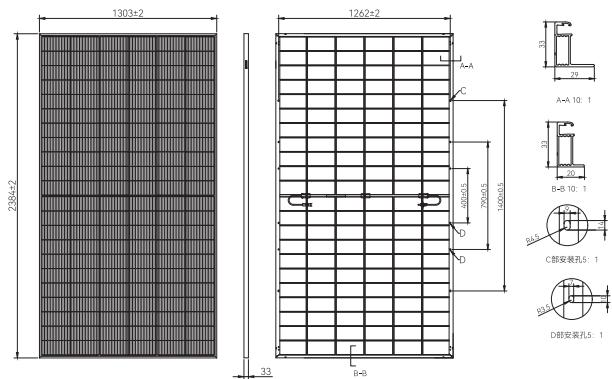
**12**  
YEAR  
Materials  
Warranty

**30**  
YEAR  
Power  
Warranty



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## DRAWINGS (Unit: mm)



## Electrical Characteristics (STC)

Module type: TWMNF-66HDXXX

| Maximum Power: Pmax [W]           | 700   | 705   | 710   | 715   | 720   |
|-----------------------------------|-------|-------|-------|-------|-------|
| Open Circuit Voltage: Voc [V]     | 48.60 | 48.77 | 48.94 | 49.11 | 49.28 |
| Short Circuit Current: Isc [A]    | 18.35 | 18.40 | 18.45 | 18.50 | 18.55 |
| Voltage at Maximum Power: Vmp [V] | 40.35 | 40.52 | 40.69 | 40.86 | 41.03 |
| Current at Maximum Power: Imp [A] | 17.35 | 17.40 | 17.45 | 17.50 | 17.55 |
| Module Efficiency: η [%]          | 22.5  | 22.7  | 22.9  | 23.0  | 23.2  |

\* STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

## Electrical Characteristics (NMOT)

| Maximum Power: Pmax [W]           | 526   | 530   | 534   | 538   | 541   |
|-----------------------------------|-------|-------|-------|-------|-------|
| Open Circuit Voltage: Voc [V]     | 46.17 | 46.33 | 46.49 | 46.65 | 46.82 |
| Short Circuit Current: Isc [A]    | 14.82 | 14.86 | 14.90 | 14.94 | 14.98 |
| Voltage at Maximum Power: Vmp [V] | 37.55 | 37.73 | 37.90 | 38.08 | 38.18 |
| Current at Maximum Power: Imp [A] | 14.01 | 14.05 | 14.09 | 14.13 | 14.17 |

\* NMOT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

## ELECTRICAL CHARACTERISTICS (Rear Power Gain)

| 5%  | Maximum Power: Pmax[W]   | 735  | 740  | 745  | 750  | 756  |
|-----|--------------------------|------|------|------|------|------|
|     | Module Efficiency: η [%] | 23.7 | 23.8 | 24.0 | 24.1 | 24.3 |
| 15% | Maximum Power: Pmax[W]   | 805  | 810  | 816  | 822  | 828  |
|     | Module Efficiency: η [%] | 25.9 | 26.1 | 26.3 | 26.5 | 26.7 |
| 25% | Maximum Power: Pmax[W]   | 875  | 881  | 887  | 893  | 900  |
|     | Module Efficiency: η [%] | 28.2 | 28.4 | 28.6 | 28.7 | 29.0 |

## TEMPERATURE PARAMETERS

|                                |            |
|--------------------------------|------------|
| Temperature Coefficient (Pmax) | -0.28%/°C  |
| Temperature Coefficient (Voc)  | -0.24%/°C  |
| Temperature Coefficient (Isc)  | +0.046%/°C |
| NMOT                           | 45±2°C     |

## MAXIMUM RATINGS

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

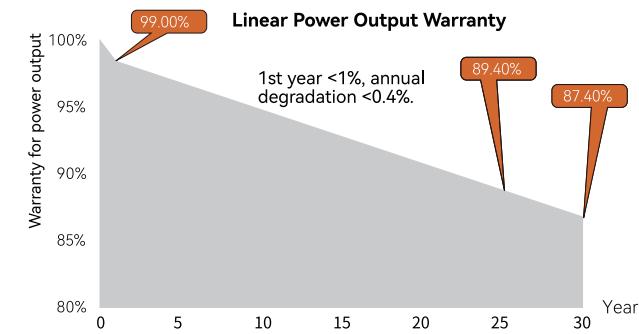
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Statement: With technological process and product update, there maybe deviation between the technical parameters of Tongwei's module products and the technical parameters contained in the specification, and Tongwei Solar has the right to adjust the technical parameters at any time without notifying the customer, the final interpretation of the technical specification is vested in Tongwei Solar. (Preview-20240703)

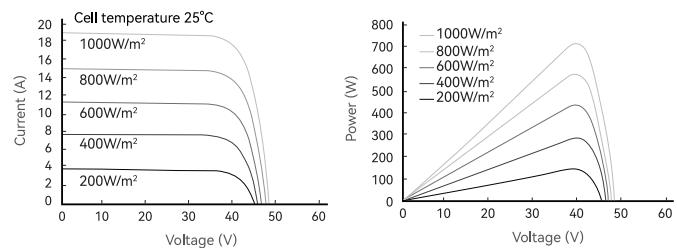
## MECHANICAL PARAMETERS

|                  |   |
|------------------|---|
| Cells            | TNC(N Type Monocrystalline Cell)                    |
| Cell Orientation | 132[6×22]   |
| Dimension        | 2384±2×1303±2×33mm                                  |
| Weight           | 37.9kg  |
| Front Glass      | 2.0mm AR coated heat strengthened glass             |
| Rear Glass       | 2.0mm heat strengthened glass                       |
| Frame            | Anodized aluminum alloy frame                       |
| Junction Box     | IP68, 3 diodes                                      |
| Output Cable     | 4.0mm <sup>2</sup>                                  |
| Cable Length     | +400mm, -200mm or ±1400mm, length can be customized |
| Wind/Snow Load   | 2400Pa/5400Pa                                       |
| Packaging        | 33pcs per pallet, 594pcs per 40'HC                  |

## WARRANTY



## I-V CURVE



## CERTIFICATIONS

### Quality Management System and Product Certification

- ISO 9001: 2015/Quality management system
- ISO 14001: 2015/Environmental management system
- ISO 45001: 2018/Occupation health safety management system
- ISO 50001: 2018/Energy management system
- IEC 62941: 2019/Quality system for PV module manufacturing
- IEC 61215/61730, IEC 62804(PID), IEC 61701(Salt), IEC 62716 (Ammonia), IEC 60068-2-68(Sand)

