

**Product Feature**



High Power Output  
Low LCOE



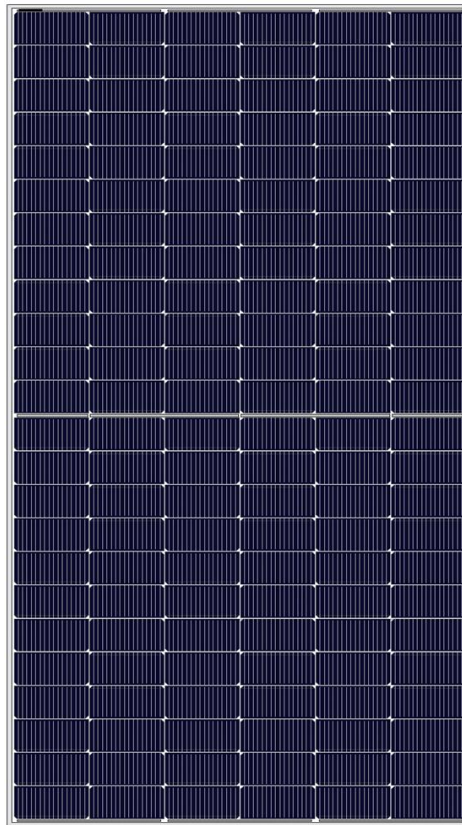
Maximum Power  
up to 560W



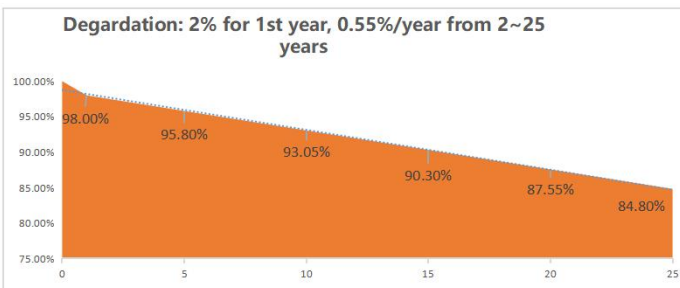
High Reliability



Low Degradation



**Linear Warranty**



12 year Warranty for Material and Processing



25 year Warranty for Linear Power output

**Management System certification**

- ISO9001: 2015/Quality Management System
- ISO14001: 2015/Environmental Management System
- ISO45001: 2018/Occupational Health and Safety Management System

**Product certification**



### Electrical Characteristics (STC)

Module type: TWMPD-72HS\*\*\*

|                                   |       |       |       |       |
|-----------------------------------|-------|-------|-------|-------|
| Maximum Power: Pmax [W]           | 545   | 550   | 555   | 560   |
| Open Circuit Voltage: Voc [V]     | 49.71 | 49.91 | 50.11 | 50.31 |
| Short Circuit Current: Isc [A]    | 13.88 | 13.92 | 13.96 | 14.00 |
| Voltage at Maximum Power: Vmp [V] | 41.05 | 41.25 | 41.45 | 41.65 |
| Current at Maximum Power: Imp [A] | 13.28 | 13.33 | 13.39 | 13.45 |
| Module Efficiency: $\eta$ [%]     | 21.1  | 21.3  | 21.5  | 21.7  |

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5, Test Uncertainty:  $\pm 3\%$

### Electrical Characteristics (NMOT)

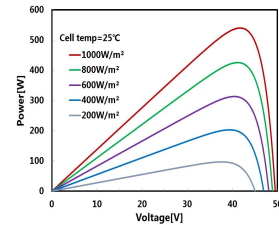
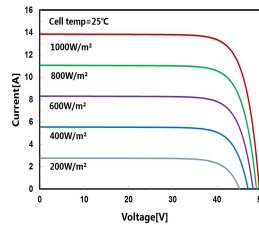
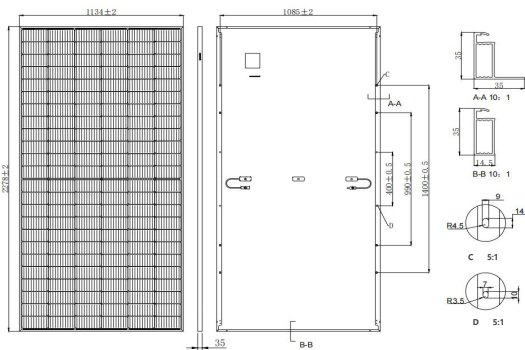
|                                   |       |       |       |       |
|-----------------------------------|-------|-------|-------|-------|
| Maximum Power: Pmax [W]           | 412.4 | 416.2 | 420.0 | 423.8 |
| Open Circuit Voltage: Voc [V]     | 47.18 | 47.40 | 47.62 | 47.85 |
| Short Circuit Current: Isc [A]    | 10.94 | 10.97 | 10.99 | 11.02 |
| Voltage at Maximum Power: Vmp [V] | 39.28 | 39.55 | 39.82 | 40.09 |
| Current at Maximum Power: Imp [A] | 10.50 | 10.52 | 10.55 | 10.57 |

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

### Mechanical Parameters

|                   |   |
|-------------------|---|
| Cell Type         | TPC   |
| Cell Orientation  | 144[6×24]   |
| Dimensions        | 2278 $\pm 2$ ×1134 $\pm 2$ ×35mm                          |
| Weight            | 27.8 kg   |
| Front Glass       | 3.2 mm AR coated heat strengthened glass                  |
| Backsheet         | White   |
| Frame             | Anodized aluminum alloy frame                             |
| Junction Box      | IP68, 3 diodes  |
| Cable             | 4.0 mm <sup>2</sup>                                       |
| Cable length      | Positive: 400mm, Negative: 200mm,length can be customized |
| Wind/Snow load    | 2400Pa/5400Pa   |
| Per pallet        | 31 pcs  |
| Packaging         | 620 pcs per 40'HC   |
| Fire class rating | Class C   |

### Drawing(Unit:mm)



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.

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### Temperature rating

|                                 |               |
|---------------------------------|---------------|
| Temperature Coefficient of Pmax | -0.33%/°C     |
| Temperature Coefficient of Voc  | -0.27%/°C     |
| Temperature Coefficient of Isc  | +0.050%/°C    |
| NMOT                            | 45 $\pm 2$ °C |

### Operating Parameters

|                            |             |
|----------------------------|-------------|
| Operating Temperature      | -40°C~+85°C |
| Maximum System Voltage     | 1500V DC    |
| Maximum Series Fuse Rating | 25A         |
| Power Output Tolerance     | 0~+5W       |

## **Cable type**

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Zhejiang Renhe Photovoltaic Technology Co., Ltd.  
Zhejiang Zhonghuan Sunter PV Technology Co., Ltd.  
Zhejiang Jiaming Tianheyuan Photovoltaics Technology Co., Ltd  
Ningbo Kibor Wire&Cable Co., Ltd.  
Wuxi Xinhongye Wire&Cable Co., Ltd.  
Trina Solar Co., Ltd.  
Changshu JHOSIN Communication Technology Co., Ltd.  
SUZHOU YONGHAO CABLE CO LTD  
QC Solar (Suzhou) Corporation  
Suzhou Baohing Electric Wire & Cable Manufacturer Co., Ltd.  
Jiangxi Jinko PV Material Co., Ltd.  
Jiangxi Hejia Technology Co., Ltd.  
YushanXinzhan Industrial Co., Ltd.  
DONGGUAN XINBEISEN WIRE AND CABLE CO LTD  
Jiangxi Han Guang Cable Co., Ltd.  
RUIXU INDUSTRY CO., LTD.  
Suzhou Xietong Photovoltaic Technology Co., Ltd.  
Jiangsu Tongling Electric Co., Ltd.

## **Connector type**

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05-8, Zhejiang Renhe Photovoltaic Technology Co., Ltd.  
PV-KST4-EVO2/xy\_UR , PV-KBT4-EVO2/xy\_UR, Stäubli Electrical Connectors AG  
PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy, Stäubli Electrical Connectors AG  
UTXCFabcd, UTXCMabcd, Amphenol Technology (Shenzhen) Co., Ltd.  
RHC2xyzu, Zhejiang Renhe Photovoltaic Technology Co., Ltd.  
PV-JM608, Zhejiang Jiaming Tianheyuan Photovoltaics Technology Co., Ltd.  
PV-JM601A, Zhejiang Jiaming Tianheyuan Photovoltaics Technology Co., Ltd.  
PV4-S1yx, Tyco Electronics (Shanghai) Co., Ltd.  
HQC4, Hanwha Q CELLS (Qidong) Co., Ltd  
PV-CO02-xy, SUZHOU UKT NEW ENERGY TECHNOLOGY CO., LTD  
TS4-xz , Trina Solar Co., Ltd.  
TS4, Trina Solar Co., Ltd.  
H4Cabcdef, Amphenol Technology (Shenzhen) Co., Ltd.  
PV-CF-C-2, 5-4-SETxxxx, PV-CM-C-2, 5-4-SETxxxx, Phoenix Contact GmbH & Co.KG  
PV-ZH202B, Zhejiang Zhonghuan Sunter PV Technology Co., Ltd.  
QC4.10-cds, QC Solar (Suzhou) Corporation  
PV-MH5, Ningbo Minghe New Energy Technology Co., Ltd.  
TL-CABLE01S-F, TL-CABLE01S, Jiangsu Tongling Electric Co., Ltd.  
PV-KST4-EVO 2A/xy\_UR; PV-KBT4-EVO 2A/xy\_UR, Stäubli Electrical Connectors AG  
PV-XT101.1, Suzhou Xietong Photovoltaic Technology Co., Ltd.  
PV-JK03M-2, PV-JK03M/xy, PV-JK03M1/xy, PV-JK03M2/xy, Jiangxi Jinko PV Material Co., Ltd.  
UTXCFabcde, UTXCMabcde, Amphenol Technology (Shenzhen) Co., Ltd.  
TW-PVCON-01, Tongwei Solar (Hefei) Co., Ltd.