

# Haitai TaiHe2.0 (182)

## HTM570~585DMH5-72NT

TOPCon Bifacial high efficiency PV module



### PRODUCT FEATURES



#### High Power Output

N-type MBB half cut technology, improve energy density, bring higher power output. High Bifacial Factor, up to 25% extra power generation



#### Low Power Degradation

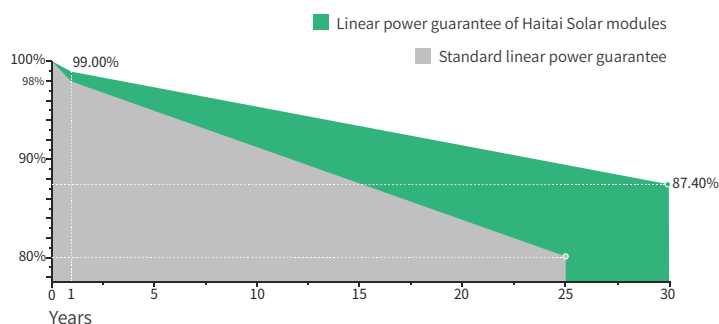
First year power degradation <1.0%, year 2-30 power degradation <0.40% each year



#### Better Low Light Performance

Higher power generation compare with standard module in cloudy, foggy and low light condition

### LINEAR PERFORMANCE WARRANTY



product warranty



linear power warranty



Linear attenuation of 0.40% per year within 30 years

### CERTIFICATES

· IEC 61215, IEC 61730



## Electrical Data (STC)

|                                                                                                   |               |       |       |       |
|---------------------------------------------------------------------------------------------------|---------------|-------|-------|-------|
| Maximum Power (Pmax/W)                                                                            | 570           | 575   | 580   | 585   |
| Open Circuit Voltage (Voc/V)                                                                      | 51.18         | 51.33 | 51.48 | 51.57 |
| Short Circuit Current (Isc/A)                                                                     | 13.92         | 14.00 | 14.08 | 14.18 |
| Voltage at Maximum Power (Vmp/V)                                                                  | 42.45         | 42.60 | 42.75 | 42.84 |
| Current at Maximum Power (Imp/A)                                                                  | 13.43         | 13.50 | 13.57 | 13.66 |
| Module Efficiency (%)                                                                             | 22.07         | 22.26 | 22.45 | 22.65 |
| Operating Temperature                                                                             | -40° C~+85° C |       |       |       |
| Maximum System Voltage                                                                            | 1000/1500V    |       |       |       |
| STC (Standard Testing Conditions): Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, AM1.5 |               |       |       |       |

## Electrical Data (NMOT)

|                                  |       |       |       |       |
|----------------------------------|-------|-------|-------|-------|
| Maximum Power (Pmax/W)           | 430   | 434   | 438   | 441   |
| Open Circuit Voltage (Voc/V)     | 48.61 | 48.76 | 48.91 | 48.99 |
| Short Circuit Current (Isc/A)    | 11.4  | 11.47 | 11.54 | 11.62 |
| Voltage at Maximum Power (Vmp/V) | 39.98 | 40.13 | 40.28 | 40.37 |
| Current at Maximum Power (Imp/A) | 10.76 | 10.82 | 10.88 | 10.93 |

NMOT (Nominal Module Operating Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s.

## Bifacial Power Generation Parameters (Backside Gains)

|     |                        |       |       |       |       |
|-----|------------------------|-------|-------|-------|-------|
| 5%  | Maximum Power (Pmax/W) | 599   | 604   | 609   | 614   |
|     | Module Efficiency (%)  | 23.17 | 23.37 | 23.57 | 23.78 |
| 15% | Maximum Power (Pmax/W) | 656   | 661   | 667   | 673   |
|     | Module Efficiency (%)  | 25.37 | 25.60 | 25.82 | 26.04 |
| 25% | Maximum Power (Pmax/W) | 713   | 719   | 725   | 731   |
|     | Module Efficiency (%)  | 27.58 | 27.82 | 28.07 | 28.31 |

## Mechanical Data

|                            |                                                                                                                                           |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Cell Type                  | 182×91mm Mono                                                                                                                             |
| Cell Orientation           | 144(6×24)                                                                                                                                 |
| Module Dimensions          | 2278×1134×30mm                                                                                                                            |
| Weight                     | 32.0kg                                                                                                                                    |
| Glass                      | 2.0mm high transmittance, reinforced glass                                                                                                |
| Backsheet                  | 2.0mm part of the structure is grid-like white ceramic glass                                                                              |
| Frame Material             | Anodized aluminum alloy                                                                                                                   |
| Junction Box               | Protection class IP68                                                                                                                     |
| Cable                      | 4.0 mm <sup>2</sup> positive pole: 200 mm negative pole: 250 mm wire length can be customized                                             |
| Connector                  | Stäubli Electrical: Type PV-KST4-EVO2/XY-UR; PV-KBT4-EVO2/XY-UR<br>Jiangsu Holysun: Type C1 or C2<br>Jiangsu TianSheng: Type TS01 or TS02 |
| Maximum Series Fuse Rating | 25A                                                                                                                                       |
| Fire Safety Class          | Class C                                                                                                                                   |

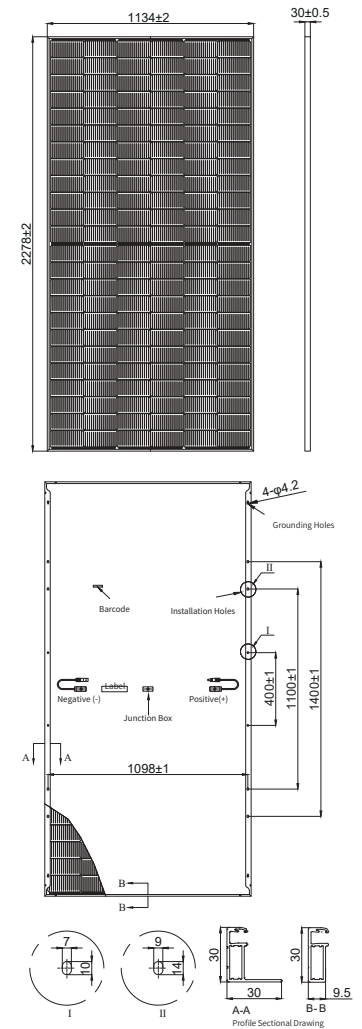
## Temperature Coefficients

|                                             |            |
|---------------------------------------------|------------|
| Temperature Coefficient (Pm)                | -0.300%/°C |
| Temperature Coefficient (Voc)               | -0.250%/°C |
| Temperature Coefficient (Isc)               | 0.046%/°C  |
| NMOT (Nominal Module Operating Temperature) | 41±3°C     |

## Packaging

|                        |                               |                              |
|------------------------|-------------------------------|------------------------------|
| Transportation methods | Number of modules per cabinet | Number of modules per pallet |
| 40HQ container         | 720 pcs                       | 36 pcs +36 pcs               |

## Module Dimensions (mm)



## I-V Curve

