

# Haitai TaiHe2.0 (182)

## HTM565~585DMH5-72NT TOPCon Bifacial high efficiency PV module

22.65%

Module Efficiency 22.65%

### 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

**High Durability**  
Passed TUV Salt & Ammonia corrosion test, and 2400Pa wind load, 5400Pa snow load test, higher reliability

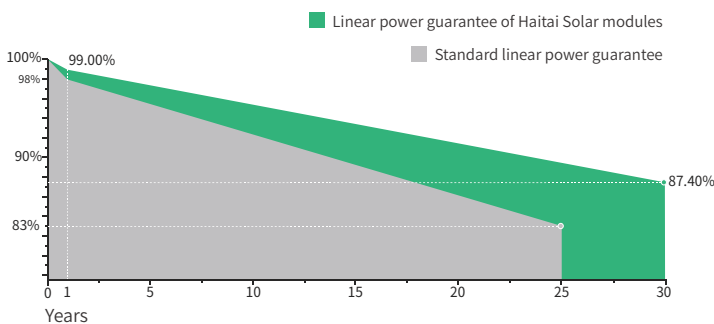
**Better Low Light Performance**  
Higher power generation compare with standard module in cloudy, foggy and low light condition

**Low Power Degradation**  
First year power degradation <1.0%, year 2-30 power degradation <0.40% each year

**Low Temperature coefficient**  
Passivated contact cell technology for higher power generation in operating

**Better Anti-LID**  
N-type cells with boron-oxide-free composite LID to increase module power generation

### LINEAR PERFORMANCE WARRANTY



12 YEARS product warranty

30 YEARS linear power warranty

0.40% Linear attenuation of 0.40% per year within 30 years

### CERTIFICATES

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational health and safety management systems



## Electrical Data (STC)

Maximum Power (Pmax/W)	565	570	575	580	585
Open Circuit Voltage (Voc/V)	51.03	51.18	51.33	51.48	51.57
Short Circuit Current (Isc/A)	13.84	13.92	14.00	14.08	14.18
Voltage at Maximum Power (Vmp/V)	42.30	42.45	42.60	42.75	42.84
Current at Maximum Power (Imp/A)	13.36	13.43	13.50	13.57	13.66
Module Efficiency (%)	21.87	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)	426	430	434	438	441
Open Circuit Voltage (Voc/V)	48.46	48.61	48.76	48.91	48.99
Short Circuit Current (Isc/A)	11.33	11.4	11.47	11.54	11.62
Voltage at Maximum Power (Vmp/V)	39.83	39.98	40.13	40.28	40.37
Current at Maximum Power (Imp/A)	10.7	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)	593	599	604	609	614
	Module Efficiency (%)	22.97	23.17	23.37	23.57	23.78
15%	Maximum Power (Pmax/W)	650	656	661	667	673
	Module Efficiency (%)	25.15	25.37	25.60	25.82	26.04
25%	Maximum Power (Pmax/W)	706	713	719	725	731
	Module Efficiency (%)	27.34	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	MC4 compatible connector

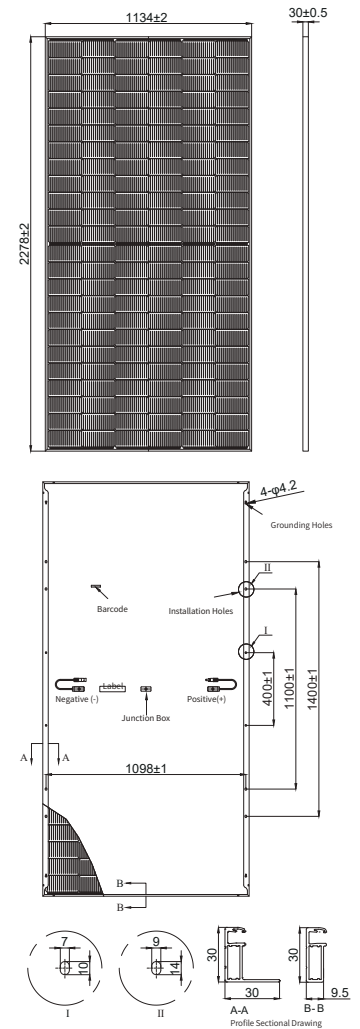
## Temperature Coefficients

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

