

# Haitai TaiHe (210)

## HTM590~610DMH8-60

Bifacial high efficiency mono PV module

21.55%

Module Efficiency 21.55%

### PRODUCT FEATURES

**High Efficiency**  
Power can be generated on both sides to support additional output gains of up to 25%.  
The multi-busbar half-cut technology can boost energy density to deliver higher output.

**High Reliability**  
Certified in TUV salt spray, ammonia corrosion, 2400Pa wind load and 5400Pa snow load testing. Highly reliable.

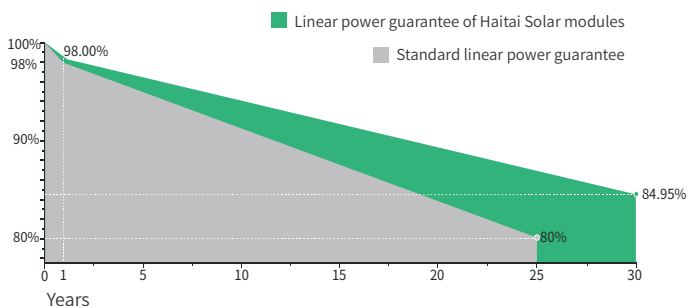
**High ROI**  
Effectively reducing BOS costs to achieve lower LCOE and enhanced project profitability.

**Low Degradation**  
First-year degradation is less than 2.0%, with linear degradation of 0.45% per year for 30 years.

**Low Risk of Hot Spot**  
The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.

**Low Risk of Micro-Crack**  
The multi-busbar technology contributes to more effective prevention of Micro crack and broken busbars.

### LINEAR PERFORMANCE WARRANTY



### 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

12 YEARS product warranty

30 YEARS linear power warranty

0.45% Linear attenuation of 0.45% per year within 30 years

## Electrical Data (STC)

Maximum Power (Pmax/W)	590	595	600	605	610
Open Circuit Voltage (Voc/V)	41.09	41.29	41.49	41.69	41.89
Short Circuit Current (Isc/A)	18.43	18.48	18.53	18.58	18.64
Voltage at Maximum Power (Vmp/V)	33.99	34.19	34.39	34.59	34.79
Current at Maximum Power (Imp/A)	17.36	17.41	17.45	17.50	17.54
Module Efficiency (%)	20.85	21.02	21.20	21.38	21.55
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)	447	451	455	459	463
Open Circuit Voltage (Voc/V)	38.69	38.89	39.09	39.29	39.49
Short Circuit Current (Isc/A)	14.86	14.89	14.95	15.00	15.06
Voltage at Maximum Power (Vmp/V)	31.59	31.79	31.99	32.19	32.39
Current at Maximum Power (Imp/A)	14.16	14.19	14.23	14.26	14.30
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)	620	625	630	635	641
	Module Efficiency (%)	21.89	22.08	22.26	22.45	22.63
15%	Maximum Power (Pmax/W)	679	684	690	696	702
	Module Efficiency (%)	23.97	24.18	24.38	24.58	24.79
25%	Maximum Power (Pmax/W)	738	744	750	756	763
	Module Efficiency (%)	26.06	26.28	26.50	26.72	26.94

## Mechanical Data

Cell Type	210×105mm Mono
Cell Orientation	120(6×20)
Module Dimensions	2172×1303×35mm
Weight	35.5kg
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: 250mm negative pole: 300 mm wire length can be customized
Connector	MC4 compatible connector

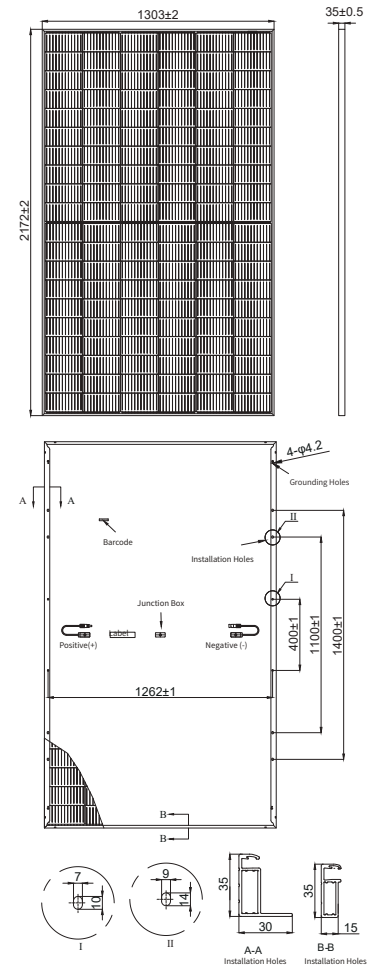
## Temperature Coefficients

Temperature Coefficient (Pm)	-0.340%/°C
Temperature Coefficient (Voc)	-0.250%/°C
Temperature Coefficient (Isc)	0.040%/°C
NMOT (Nominal Module Operating Temperature)	41±3°C

## Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	527 pcs	31 pcs

## Module Dimensions (mm)



## I-V Curve

