

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.

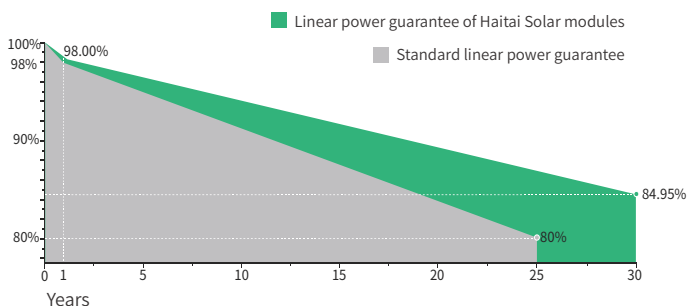
High ROI
Effectively reducing BOS costs to achieve lower LCOE and enhanced project profitability.

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 ² , 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/m², 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 ² positive pole: 250mm negative pole: 300 mm wire length can be customized
Connector	MC4 compatible connector

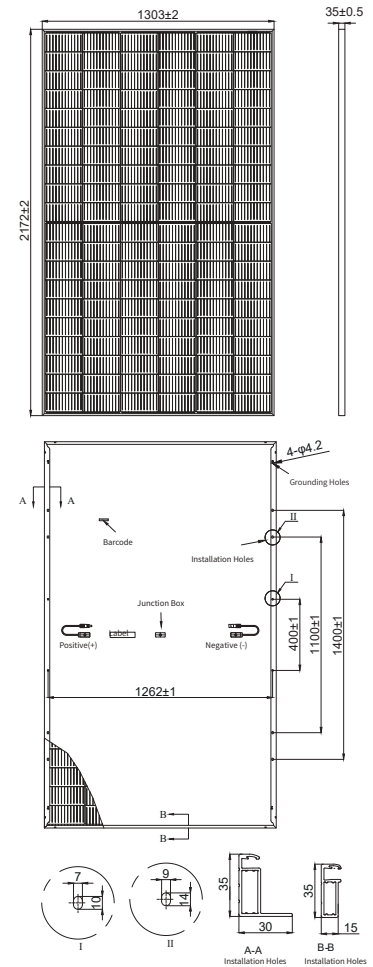
Temperature Coefficients

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

