

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

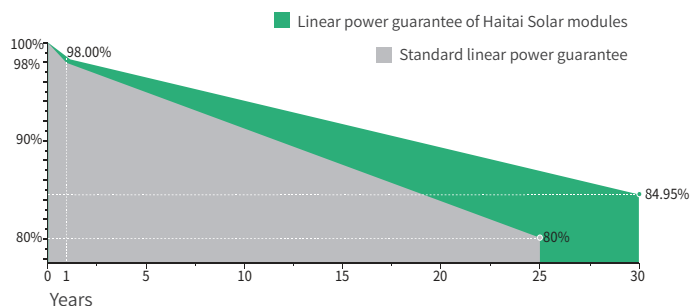
The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.



Low Risk of Micro-Crack

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

LINEAR PERFORMANCE WARRANTY



product warranty



linear power warranty



Linear attenuation of 0.45% 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
- IEC62941:2019 Photovoltaic Module Manufacturer Quality Management System



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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/m², 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	2172×1303×33mm
Weight	35.0kg
Front Glass	2.0mm high transmittance, reinforced glass
Rear Glass	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

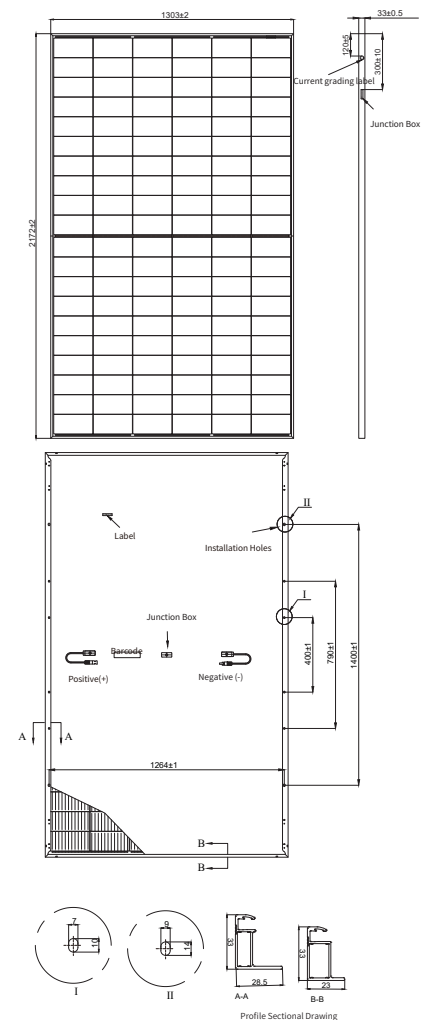
Temperature Coefficients

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	561 pcs	33 pcs

Module Dimensions (mm)



I-V Curve

