

Haitai TaiHe (210)

HTM650~670DMH8-66

Bifacial high efficiency mono PV module

21.57%

Module Efficiency 21.57%

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

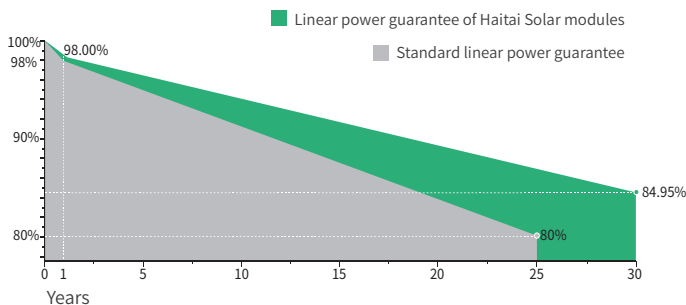
The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.



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
- IEC62941:2019 Photovoltaic Module Manufacturer Quality Management System



12 YEARS product warranty



30 YEARS linear power warranty



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



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Electrical Data (STC)

Maximum Power (Pmax/W)	650	655	660	665	670
Open Circuit Voltage (Voc/V)	45.29	45.49	45.69	45.89	46.09
Short Circuit Current (Isc/A)	18.43	18.49	18.52	18.58	18.63
Voltage at Maximum Power (Vmp/V)	37.39	37.59	37.79	37.99	38.19
Current at Maximum Power (Imp/A)	17.39	17.43	17.47	17.51	17.55
Module Efficiency (%)	20.92	21.09	21.25	21.41	21.57
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)	492	496	500	504	508
Open Circuit Voltage (Voc/V)	42.59	42.79	42.99	43.19	43.39
Short Circuit Current (Isc/A)	14.84	14.88	14.93	14.98	15.03
Voltage at Maximum Power (Vmp/V)	34.89	35.09	35.29	35.49	35.69
Current at Maximum Power (Imp/A)	14.11	14.14	14.17	14.21	14.24

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)	683	688	693	698	704
	Module Efficiency (%)	21.97	22.14	22.31	22.48	22.65
15%	Maximum Power (Pmax/W)	748	753	759	765	771
	Module Efficiency (%)	24.06	24.25	24.43	24.62	24.80
25%	Maximum Power (Pmax/W)	813	819	825	831	838
	Module Efficiency (%)	26.16	26.36	26.56	26.76	26.96

Mechanical Data

Cell Type	210×105mm Mono
Cell Orientation	132(6×22)
Module Dimensions	2384×1303×33mm
Weight	38.0kg
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

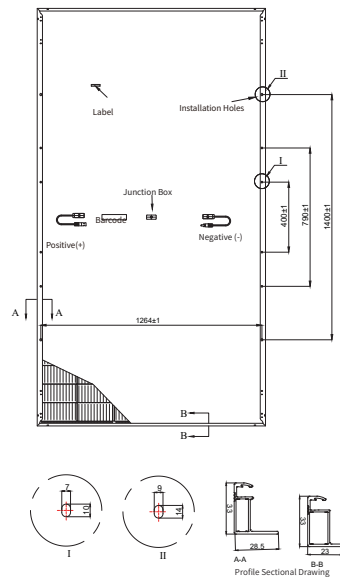
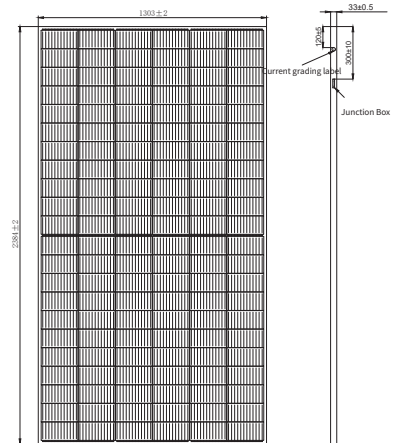
Temperature Coefficients

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 +33pcs

Module Dimensions (mm)



I-V Curve

