

# 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

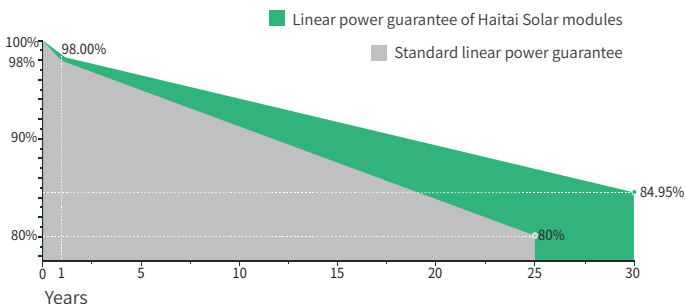
The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.



#### 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



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)	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/m <sup>2</sup> , 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/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)	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	2384×1303×35mm
Weight	39.0kg
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: 250mm negative pole: 300 mm wire length can be customized
Connector	MC4 compatible connector

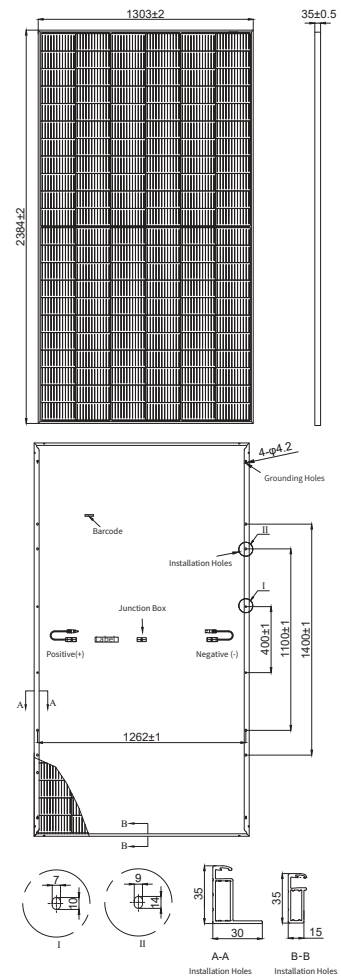
## Temperature Coefficients

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

