

# Haitai TaiHe2.0 (210)

## HTM620~640DMH8-60NT TOPCon Bifacial high efficiency PV module

22.61%

Module Efficiency

### PRODUCT FEATURES

**Hi Power Output**  
N-type MBB half cut technology, improve energy density, bring higher power output.  
High Bifacial Factor, up to 25% extra power generation

**High Durability**  
Passed TUV Salt & Ammonia corrosion test, and 2400Pa wind load, 5400Pa snow load test, higher reliability

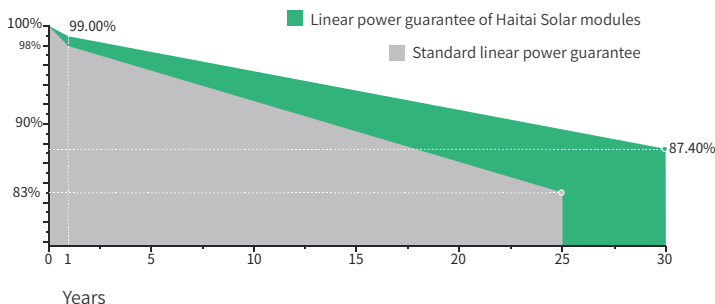
**Better Low Light Performance**  
Higher power generation compare with standard module in cloudy, foggy and low light condition

**Low Power Degradation**  
First year power degradation <1.0%, year 2-30 power degradation <0.40% each year

**Low Temperature coefficient**  
Passivated contact cell technology for higher power generation in operating

**Better Anti-LID**  
N-type cells with boron-oxide-free composite LID to increase module power generation

### LINEAR PERFORMANCE WARRANTY



12 YEARS product warranty

30 YEARS linear power warranty

0.40% Linear attenuation of 0.40% per year within 30 years

### CERTIFICATES

- ISO 9001: 2005 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational health and safety management systems



## Electrical Data (STC)

Maximum Power (Pmax/W)	620	625	630	635	640
Open Circuit Voltage (Voc/V)	42.15	42.3	42.45	42.6	42.75
Short Circuit Current (Isc/A)	18.57	18.66	18.74	18.82	18.9
Voltage at Maximum Power (Vmp/V)	34.87	35.02	35.17	35.32	35.47
Current at Maximum Power (Imp/A)	17.79	17.85	17.92	17.98	18.05
Module Efficiency (%)	21.91	22.08	22.26	22.44	22.61
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)	466	470	474	478	482
Open Circuit Voltage (Voc/V)	39.59	39.74	39.89	40.04	40.19
Short Circuit Current (Isc/A)	15.11	15.18	15.25	15.32	15.39
Voltage at Maximum Power (Vmp/V)	32.59	32.74	32.89	33.04	33.19
Current at Maximum Power (Imp/A)	14.3	14.36	14.42	14.47	14.53
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)	651	656	662	667	672
	Module Efficiency (%)	23.00	23.19	23.37	23.56	23.74
15%	Maximum Power (Pmax/W)	713	719	725	730	736
	Module Efficiency (%)	25.19	25.40	25.60	25.80	26.01
25%	Maximum Power (Pmax/W)	775	781	788	794	800
	Module Efficiency (%)	27.38	27.60	27.83	28.05	28.27

## 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: 300mm wire length can be customized
Connector	MC4 compatible connector

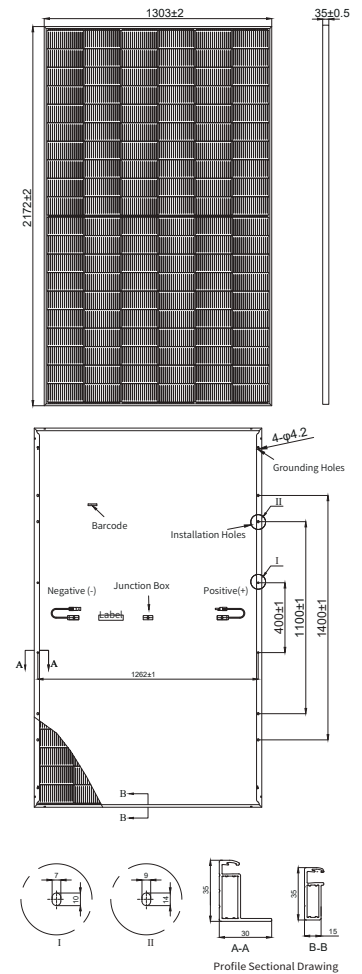
## Temperature Coefficients

Temperature Coefficient (Pm)	-0.300%/°C
Temperature Coefficient (Voc)	-0.250%/°C
Temperature Coefficient (Isc)	0.046%/°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

