

# Haitai TaiHe 182

## HTM400~420DMH5-54

Bifacial high efficiency mono PV module

21.51%

Module Efficiency 21.51%

### 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

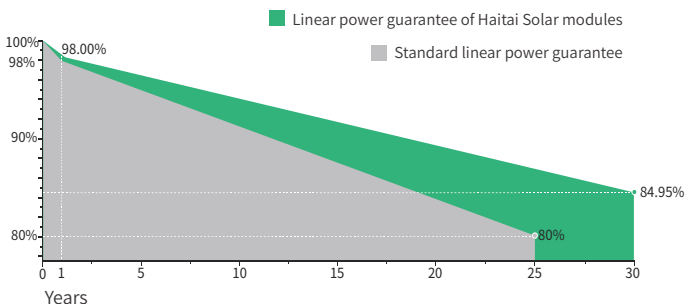
The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.



#### Low Risk of Micro-Crack

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

### LINEAR PERFORMANCE WARRANTY



12 product warranty



30 linear power warranty



0.45% 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

## Electrical Data (STC)

Maximum Power (Pmax/W)	400	405	410	415	420
Open Circuit Voltage (Voc/V)	36.96	37.11	37.26	37.41	37.56
Short Circuit Current (Isc/A)	13.60	13.70	13.79	13.89	13.98
Voltage at Maximum Power (Vmp/V)	31.00	31.15	31.30	31.45	31.60
Current at Maximum Power (Imp/A)	12.91	13.01	13.10	13.20	13.30
Module Efficiency (%)	20.48	20.74	21.00	21.25	21.51
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)	300	304	308	312	316
Open Circuit Voltage (Voc/V)	33.97	34.12	34.27	34.42	34.57
Short Circuit Current (Isc/A)	11.10	11.18	11.27	11.35	11.43
Voltage at Maximum Power (Vmp/V)	28.19	28.34	28.49	28.64	28.79
Current at Maximum Power (Imp/A)	10.65	10.73	10.82	10.90	10.98

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)	420	425	431	436	441
	Module Efficiency (%)	21.51	21.78	22.05	22.31	22.58
15%	Maximum Power (Pmax/W)	460	466	472	477	483
	Module Efficiency (%)	23.56	23.85	24.15	24.44	24.73
25%	Maximum Power (Pmax/W)	500	506	513	519	525
	Module Efficiency (%)	25.60	25.93	26.25	26.57	26.89

## Mechanical Data

Cell Type	182×91mmMono
Cell Orientation	108(6×18)
Module Dimensions	1722×1134×30mm
Weight	24.0kg
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: 200 mm negative pole: 250 mm wire length can be customized
Connector	MC4 compatible connector

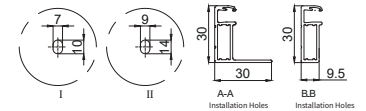
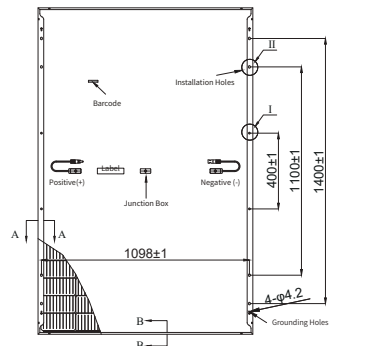
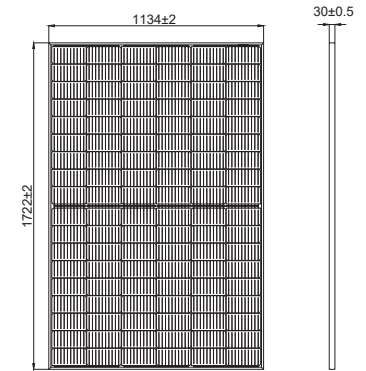
## Temperature Coefficients

Temperature Coefficient (Pm)	-0.340%/°C
Temperature Coefficient (Voc)	-0.270%/°C
Temperature Coefficient (Isc)	0.048%/°C
NMOT (Nominal Module Operating Temperature)	41±3° C

## Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	936 pcs	36 pcs +36 pcs

## Module Dimensions (mm)



## I-V Curve

