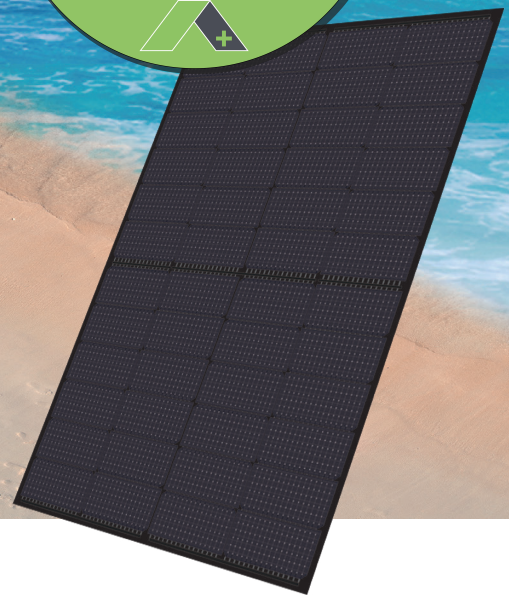
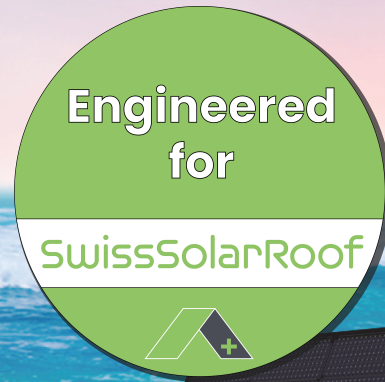


# Haitai TaiHe2.0 182

## HTM185~205DMH5-24NT TOPCon Bifacial high efficiency PV module



**21.04%**

Module Efficiency

### PRODUCT FEATURES

**High 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

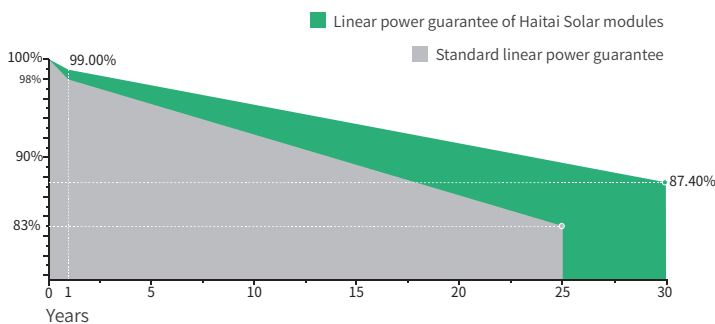
**Better Low Light Performance**  
Higher power generation compare with standard module in cloudy, foggy and low light condition

**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



**15 YEARS** product warranty

**30 YEARS** linear power warranty

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

### CERTIFICATES

- 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)	185	190	195	200	205
Open Circuit Voltage (Voc/V)	16.95	17.10	17.25	17.40	17.55
Short Circuit Current (Isc/A)	13.64	13.89	14.13	14.36	14.60
Voltage at Maximum Power (Vmp/V)	14.20	14.35	14.50	14.65	14.80
Current at Maximum Power (Imp/A)	13.03	13.25	13.45	13.65	13.85
Module Efficiency (%)	18.99	19.50	20.01	20.53	21.04
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)	139	143	147	151	155
Open Circuit Voltage (Voc/V)	16.10	16.24	16.38	16.53	16.67
Short Circuit Current (Isc/A)	11.16	11.38	11.59	11.81	12.02
Voltage at Maximum Power (Vmp/V)	13.25	13.37	13.48	13.6	13.72
Current at Maximum Power (Imp/A)	10.51	10.72	10.92	11.12	11.32
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)	194	200	205	210	215
	Module Efficiency (%)	19.94	20.48	21.02	21.55	22.09
15%	Maximum Power (Pmax/W)	213	219	224	230	236
	Module Efficiency (%)	21.84	22.43	23.02	23.61	24.20
25%	Maximum Power (Pmax/W)	231	238	244	250	256
	Module Efficiency (%)	23.73	24.38	25.02	25.66	26.30

## Mechanical Data

Cell Type	182×91mm Mono
Cell Orientation	48(4×12)
Module Dimensions	1194×816×6mm
Weight	13.5kg
Front Glass	3.2mm high transmittance, reinforced glass
Back Glass	2.0mm part of the structure is grid-like black ceramic glass
Junction Box	Protection class IP68
Cable	4.0 mm <sup>2</sup> positive pole: 1200 mm negative pole: 1200 mm wire length can be customized
Connector	Staubli connector

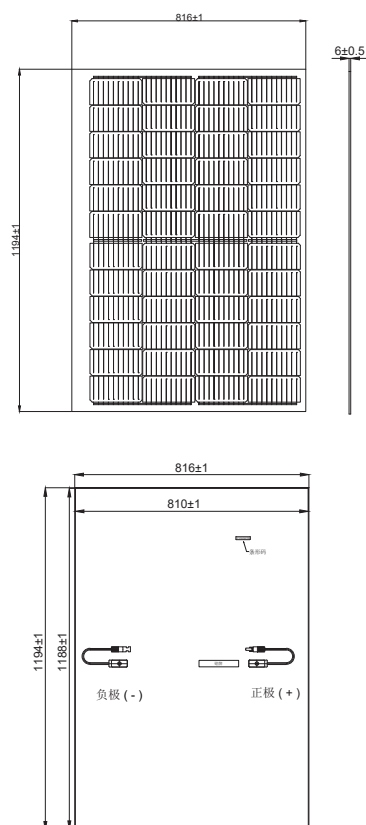
## Temperature Coefficients

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	1188 pcs	33+33 pcs
20HQ container	528 pcs	33+33 pcs

## Module Dimensions (mm)



## I-V Curve

