

Haitai TaiHe2.0 (182

HTM570~595DMH5-72NT

TOPCon Bifacial high efficiency PV module

23.03%

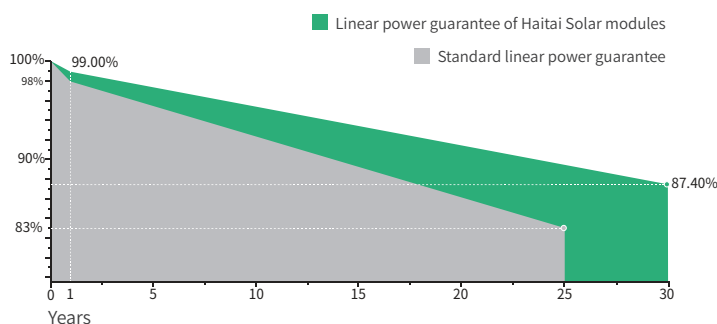
Module Efficiency 23.03%

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



 12 YEARS product warranty

 30 YEARS linear power warranty

 0.40% Linear attenuation of 0.40% 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)	570	575	580	585	590	595
Open Circuit Voltage (Voc/V)	51.89	52.04	52.19	52.34	52.49	52.64
Short Circuit Current (Isc/A)	13.73	13.81	13.89	13.97	14.05	14.13
Voltage at Maximum Power (Vmp/V)	43.61	43.76	43.91	44.06	44.21	44.36
Current at Maximum Power (Imp/A)	13.08	13.14	13.21	13.28	13.35	13.42
Module Efficiency (%)	22.07	22.26	22.45	22.65	22.84	23.03
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)	429	433	437	441	445	449
Open Circuit Voltage (Voc/V)	49.29	49.44	49.59	49.72	49.81	49.90
Short Circuit Current (Isc/A)	11.23	11.3	11.37	11.45	11.53	11.61
Voltage at Maximum Power (Vmp/V)	40.54	40.69	40.84	40.92	41.01	41.10
Current at Maximum Power (Imp/A)	10.59	10.65	10.71	10.78	10.86	10.93

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)	599	604	609	614	620	625
	Module Efficiency (%)	23.17	23.37	23.57	23.78	23.98	24.18
15%	Maximum Power (Pmax/W)	656	661	667	673	679	684
	Module Efficiency (%)	25.37	25.60	25.82	26.04	26.27	26.49
25%	Maximum Power (Pmax/W)	713	719	725	731	738	744
	Module Efficiency (%)	27.58	27.82	28.07	28.31	28.55	28.79

Mechanical Data

Cell Type	182×91mm Mono
Cell Orientation	144(6×24)
Module Dimensions	2278×1134×30mm
Weight	32.0kg
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: 200 mm negative pole: 250 mm wire length can be customized
Connector	MC4 compatible connector

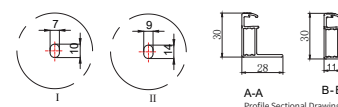
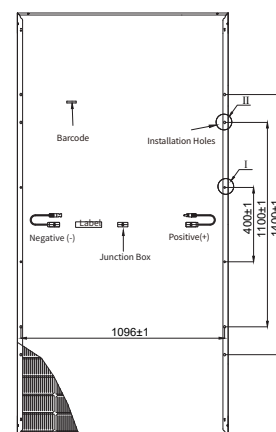
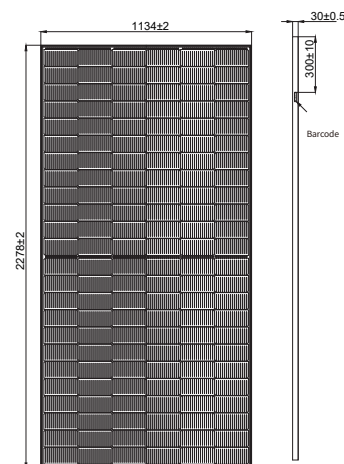
Temperature Coefficients

Temperature Coefficient (Pm)	-0.290%/°C
Temperature Coefficient (Voc)	-0.250%/°C
Temperature Coefficient (Isc)	0.045%/°C
NMOT (Nominal Module Operating Temperature)	41±3°C

Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	720 pcs	36 pcs +36 pcs

Module Dimensions (mm)



I-V Curve

