

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

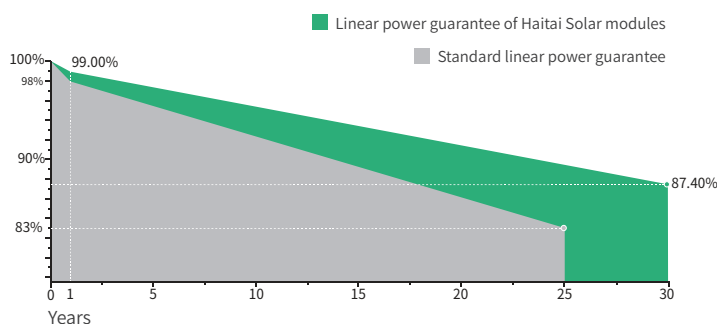
Passivated contact cell technology for higher power generation in operating



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
- IEC 62941: 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					

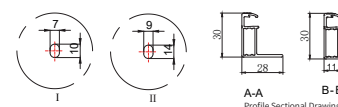
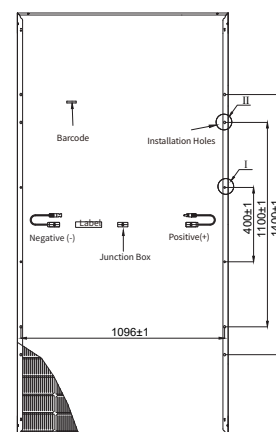
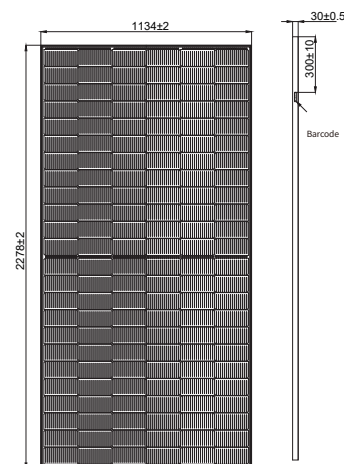
Temperature Coefficients

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

