

Magic frame

Haitai TaiHe2.0 (182)

HTM555~575DMH5-72NT

TOPCon Bifacial high efficiency PV module

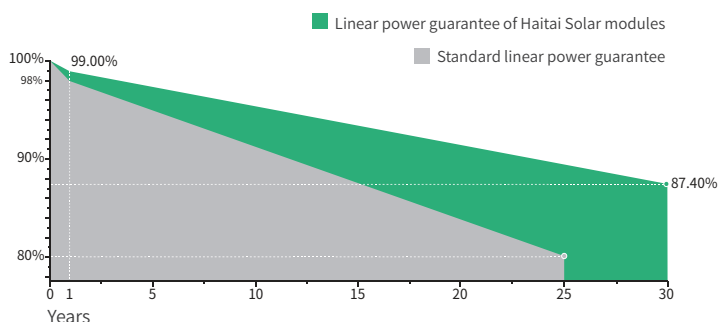
22.26%

Module Efficiency 22.26%

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, 3600Pa snow load test, higher reliability
- **Better Low Light Performance**
Higher power generation compare with standard module in cloudy, foggy and low light condition
- **Efficient Installation**
Peg and Mortise Structure Design to Improve Installation Efficiency
- **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-PID**
N-type cells with boron-oxide-free composite LID to increase module power generation
- **Low LCOE**
Saving consumption of the components of the power plant, low LCOE

LINEAR PERFORMANCE WARRANTY



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

 12 YEARS product warranty

 30 YEARS linear power warranty

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



Electrical Data (STC)

Maximum Power (Pmax/W)	555	560	565	570	575
Open Circuit Voltage (Voc/V)	50.73	50.88	51.03	51.18	51.33
Short Circuit Current (Isc/A)	13.68	13.76	13.84	13.92	14.00
Voltage at Maximum Power (Vmp/V)	42.00	42.15	42.30	42.45	42.60
Current at Maximum Power (Imp/A)	13.22	13.29	13.36	13.43	13.50
Module Efficiency (%)	21.48	21.68	21.87	22.07	22.26
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)	418	422	426	430	434
Open Circuit Voltage (Voc/V)	48.16	48.31	48.46	48.61	48.76
Short Circuit Current (Isc/A)	11.19	11.26	11.33	11.40	11.47
Voltage at Maximum Power (Vmp/V)	39.53	39.68	39.83	39.98	40.13
Current at Maximum Power (Imp/A)	10.58	10.64	10.70	10.76	10.82

NMOT (Nominal Moudule 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)	583	588	593	599	604
	Module Efficiency (%)	22.56	22.76	22.97	23.17	23.37
15%	Maximum Power (Pmax/W)	638	644	650	656	661
	Module Efficiency (%)	24.71	24.93	25.15	25.37	25.60
25%	Maximum Power (Pmax/W)	694	700	706	713	719
	Module Efficiency (%)	26.86	27.10	27.34	27.58	27.82

Mechanical Data

Cell Type	182×91mm Mono
Cell Orientation	144(6×24)
Module Dimensions	2278×1134×30mm
Weight	31.0kg
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 MagicFrame by ModuRack, Inc. All rights reserved, 2023
Junction Box	Protection class IP68
Cable	4.0 mm² positive pole: 200 mm negative pole: 250 mm wire length can be customized
Connector	MC4 compatible connector

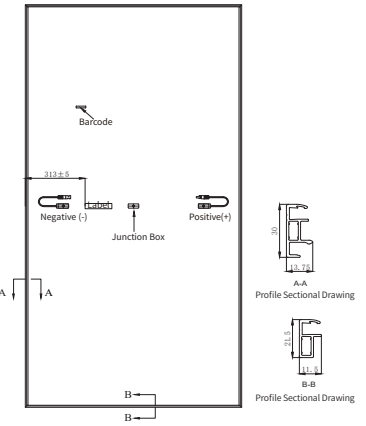
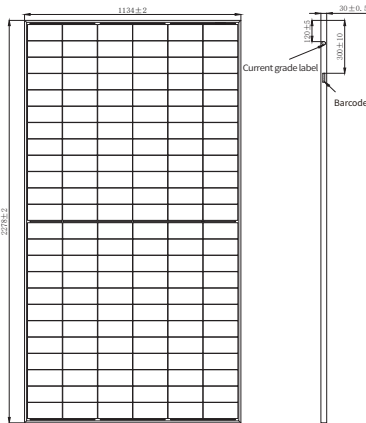
Temperature Coefficients

Temperature Coefficient (Pm)	-0.300%/°C
Temperature Coefficient (Voc)	-0.250%/°C
Temperature Coefficient (Isc)	0.045%/°C
NMOT (Nominal Moudule 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

