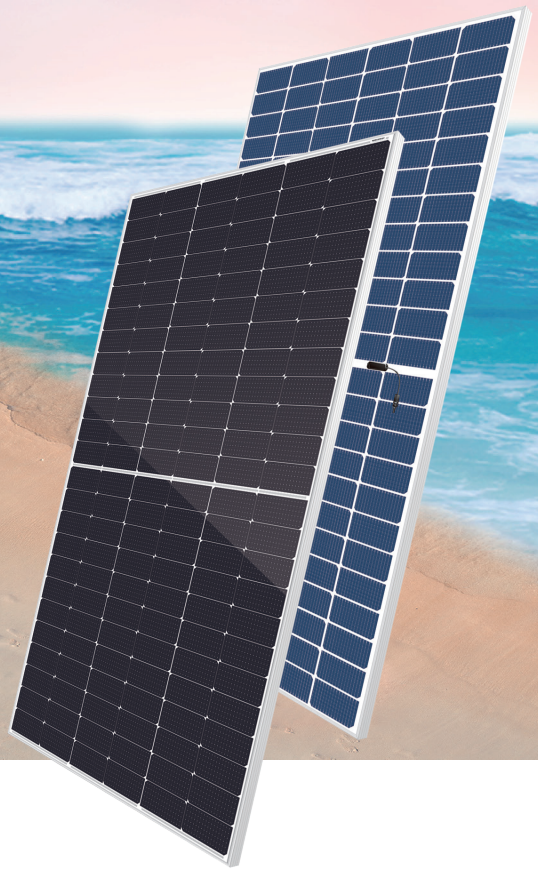
Magic frame

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

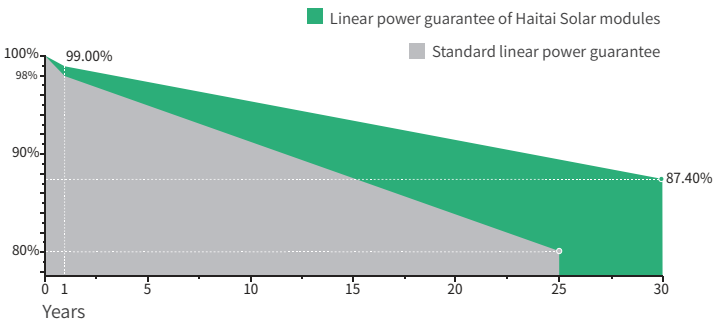
Better Anti-PID

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



12 YEARS product warranty

30 YEARS linear power warranty

0.40 % Linear attenuation of 0.40% per year within30years

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

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/m^2, Cell Temperature 25℃ , 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/m^2, 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 mm^2 positive pole: 200 mm negative pole: 250 mm wire length can be customized
Connector	MC4 compatible connector

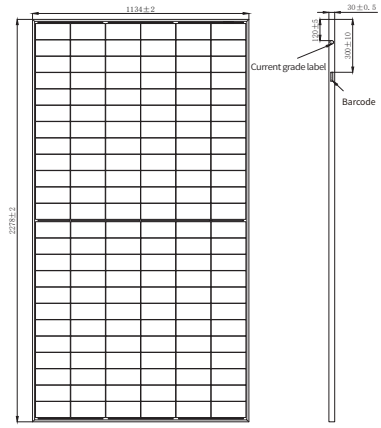
Temperature Coefficients

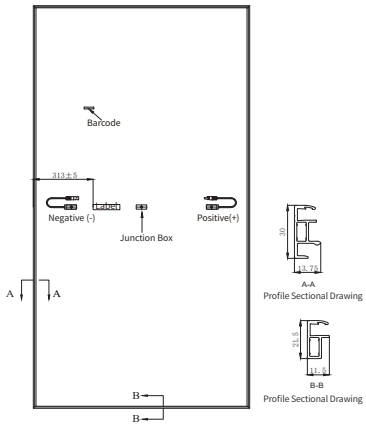
Temperature Coefficient (Pm)	-0.300%/°C
Temperature Coefficient (Voc)	-0.250%/°C
Temperature Coefficient (Isc)	0.045%/°C
NMOT (Nominal Moudule Operating Temperature)	41±3°C

Packaging

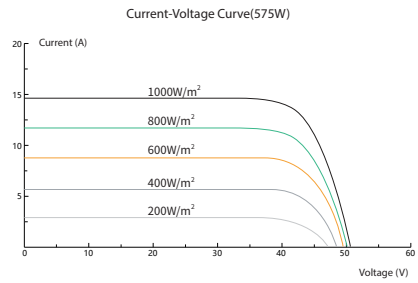
Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	720 pcs	36 pcs +36 pcs

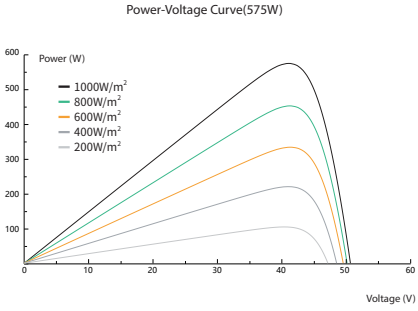
Module Dimensions (mm)





I-V Curve





Web: www.haitai-solar.com
E-mail: ht@htsolargroup.com

HAITAI20221122EN