

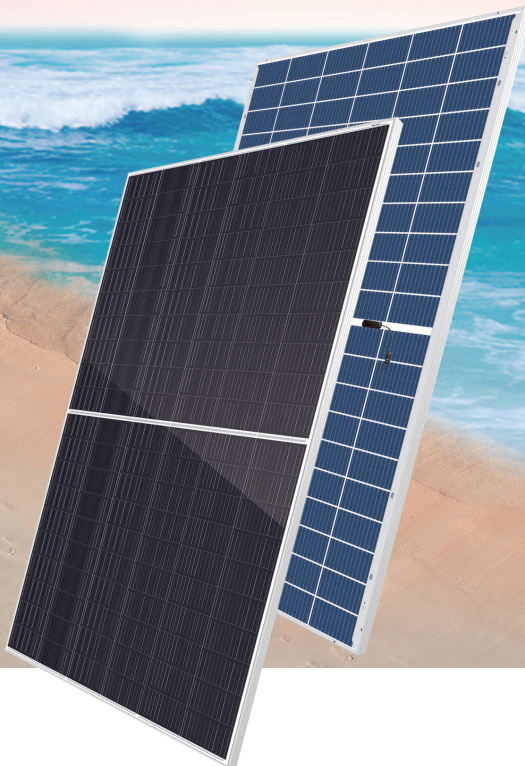
Haitai TaiHe2.0 (210

HTM630~650DMH8-60NT

TOPCon Bifacial high efficiency PV module

22.97%

Module Efficiency



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, 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

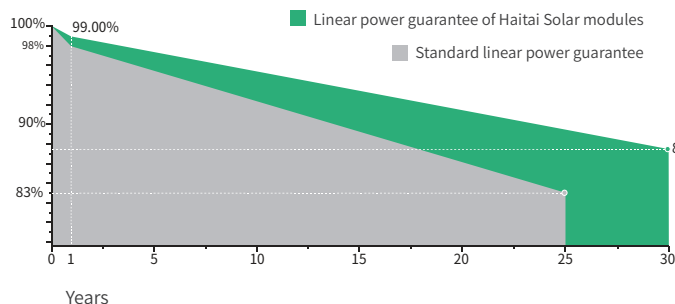
Passivated contact cell technology for higher power generation in operating



Better Anti-LID

N-type cells with boron-oxide-free composite LID to increase module power generation

LINEAR PERFORMANCE WARRANTY



product warranty



linear power warranty



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



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Electrical Data (STC)

Maximum Power (Pmax/W)	630	635	640	645	650
Open Circuit Voltage (Voc/V)	43.82	43.97	44.12	44.27	44.42
Short Circuit Current (Isc/A)	17.97	18.05	18.13	18.21	18.29
Voltage at Maximum Power (Vmp/V)	36.75	36.9	37.05	37.2	37.35
Current at Maximum Power (Imp/A)	17.15	17.21	17.28	17.34	17.41
Module Efficiency (%)	22.26	22.44	22.61	22.79	22.97
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)	474	478	482	486	490
Open Circuit Voltage (Voc/V)	41.18	41.33	41.48	41.63	41.78
Short Circuit Current (Isc/A)	14.77	14.84	14.92	14.98	15.05
Voltage at Maximum Power (Vmp/V)	33.95	34.1	34.25	34.4	34.55
Current at Maximum Power (Imp/A)	13.97	14.02	14.08	14.13	14.19
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)	662	667	672	677	683
	Module Efficiency (%)	23.37	23.56	23.74	23.93	24.12
15%	Maximum Power (Pmax/W)	725	730	736	742	748
	Module Efficiency (%)	25.60	25.80	26.01	26.21	26.41
25%	Maximum Power (Pmax/W)	788	794	800	806	813
	Module Efficiency (%)	27.83	28.05	28.27	28.49	28.71

Mechanical Data

Cell Type	210×105mm Mono
Cell Orientation	120(6×20)
Module Dimensions	2172×1303×33mm
Weight	35.0kg
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: 250mm negative pole: 300 mm wire length can be customized

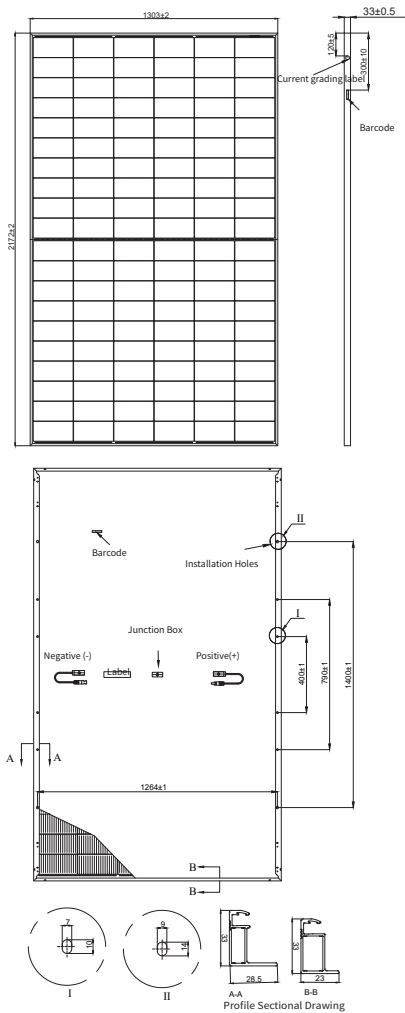
Temperature Coefficients

Temperature Coefficient (Pm)	-0.290%/°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	561 pcs	33 pcs

Module Dimensions (mm)



I-V Curve

