

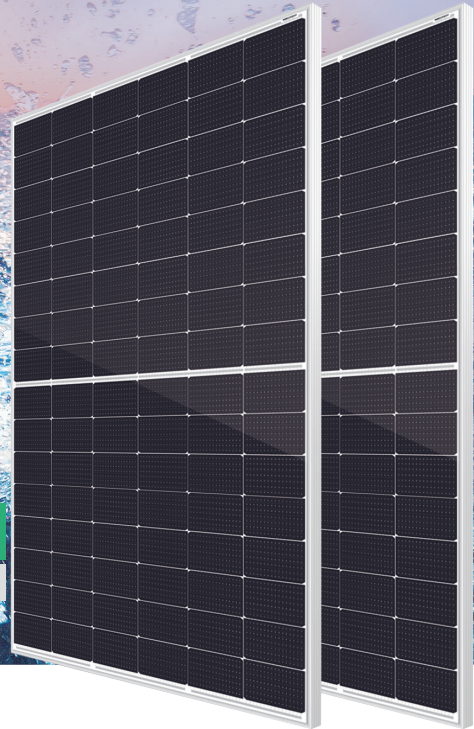
Haitai Tai Ji 2.0 (210R)

HTM440~460MH6-48NT




TOPCon Monofacial high efficiency PV module




23.02%

Module Efficiency

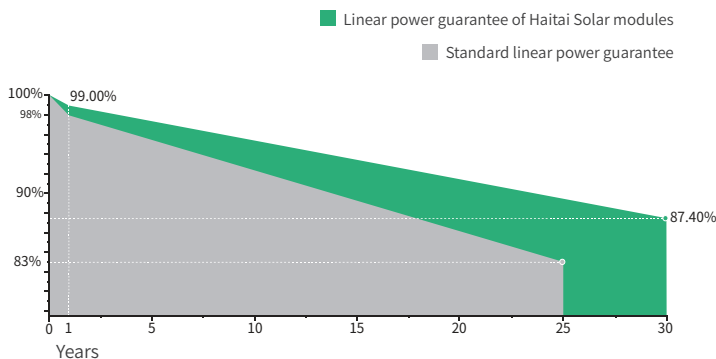


PRODUCT FEATURES

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High Power Output
 N-type MBB half cut technology, improve energy density, bring higher power output.
- 
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




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

 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)	440	445	450	455	460
Open Circuit Voltage (Voc/V)	34.84	34.99	35.14	35.29	35.44
Short Circuit Current (Isc/A)	15.79	15.9	16.01	16.12	16.23
Voltage at Maximum Power (Vmp/V)	29.42	29.57	29.72	29.87	30.02
Current at Maximum Power (Imp/A)	14.96	15.05	15.15	15.24	15.33
Module Efficiency (%)	22.02	22.27	22.52	22.77	23.02
Operating Temperature	-40° C~+85° C				
Maximum System Voltage	1000/1500V				
STC (Standard Testing Conditions): Irradiance 1000W/m ² , Cell Temperature 25°C, AM1.5					

Electrical Data (NMOT)

Maximum Power (Pmax/W)	331	335	339	343	347
Open Circuit Voltage (Voc/V)	33.07	33.22	33.37	33.52	33.67
Short Circuit Current (Isc/A)	12.92	13.01	13.11	13.21	13.30
Voltage at Maximum Power (Vmp/V)	27.14	27.29	27.44	27.59	27.74
Current at Maximum Power (Imp/A)	12.20	12.28	12.36	12.44	12.51
NMOT (Nominal Moudule Operating Temperature): Irradiance 800W/m ² , Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s.					

Mechanical Data

Cell Type	182×105mm Mono
Cell Orientation	96(6×16)
Module Dimensions	1762×1134×30mm
Weight	21.5kg
Glass	3.2mm high transmittance, reinforced glass
Backsheet	Anti-aging film
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

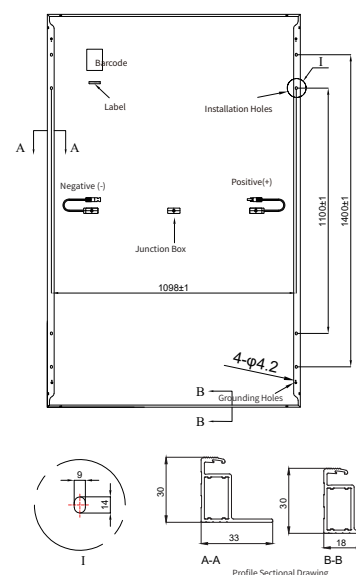
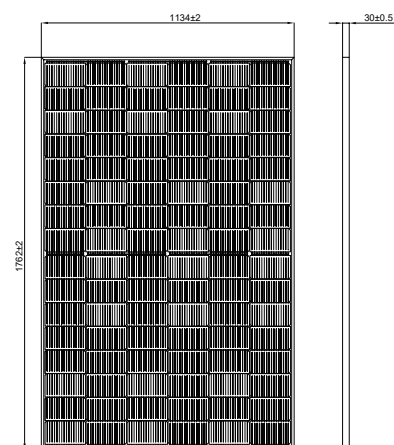
Temperature Coefficients

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	936 pcs	36 pcs +36 pcs

Module Dimensions (mm)



I-V Curve

