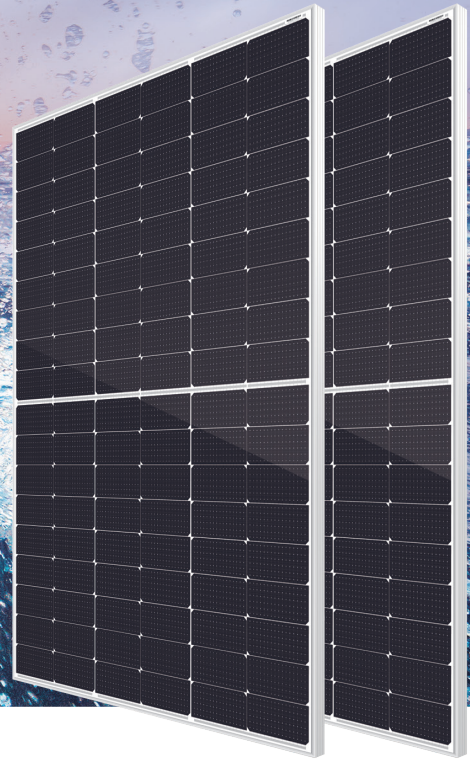


Haitai Tai Ji 2.0 (182)




HTM435~455MH5-54NT TOPCon Monofacial high efficiency PV module




23.30%

Module Efficiency 23.30%

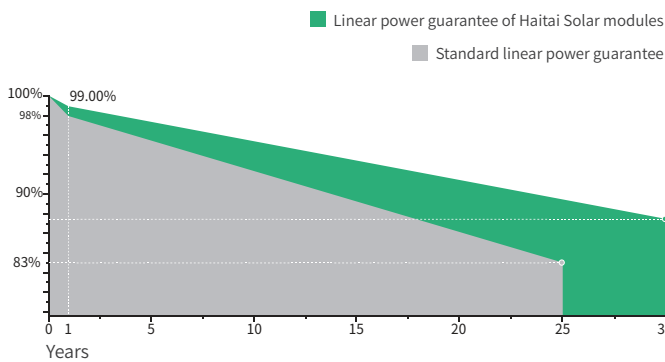





PRODUCT FEATURES

- 
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



- 
 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
- IEC62941:2019 Photovoltaic Module Manufacturer Quality Management System



Electrical Data (STC)

Maximum Power (Pmax/W)	435	440	445	450	455
Open Circuit Voltage (Voc/V)	39.15	39.30	39.45	39.60	39.75
Short Circuit Current (Isc/A)	13.89	13.99	14.10	14.20	14.31
Voltage at Maximum Power (Vmp/V)	32.94	33.09	33.24	33.39	33.54
Current at Maximum Power (Imp/A)	13.21	13.30	13.39	13.48	13.57
Module Efficiency (%)	22.28	22.53	22.79	23.04	23.30
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)	328	332	336	340	344
Open Circuit Voltage (Voc/V)	37.20	37.35	37.50	37.65	37.8
Short Circuit Current (Isc/A)	11.38	11.48	11.57	11.66	11.75
Voltage at Maximum Power (Vmp/V)	30.64	30.79	30.94	31.09	31.24
Current at Maximum Power (Imp/A)	10.72	10.79	10.87	10.95	11.02
NMOT (Nominal Module Operating Temperature): Irradiance 800W/m ² , Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s.					

Mechanical Data

Cell Type	182×91mm Mono
Cell Orientation	108(6×18)
Module Dimensions	1722×1134×30mm
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

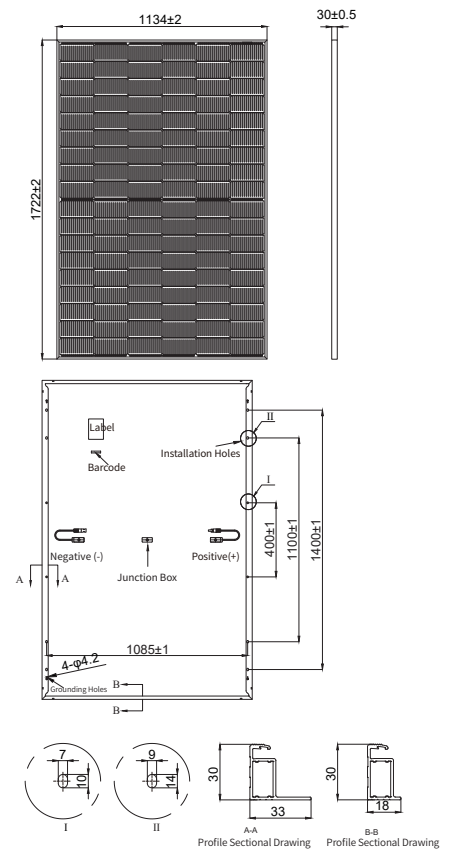
Temperature Coefficients

Temperature Coefficient (Pm)	-0.290%/°C
Temperature Coefficient (Voc)	-0.250%/°C
Temperature Coefficient (Isc)	0.045%/°C
NMOT (Nominal Module Operating Temperature)	41±3°C

Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	936pcs	36pcs +36pcs

Module Dimensions (mm)



I-V Curve

