




Haitai TaiHe2.0 (210R)




HTM615~635DMH6-66NT TOPCon Bifacial high efficiency PV module

23.51%

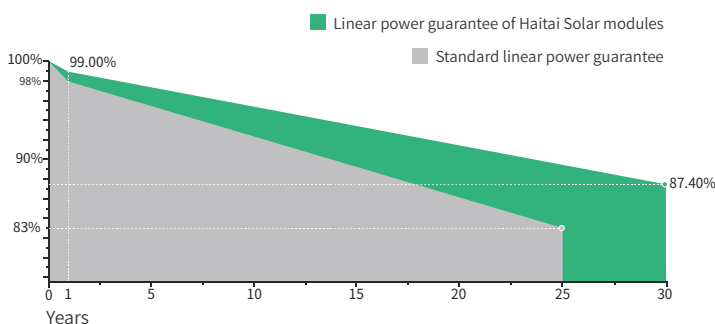
Module Efficiency

PRODUCT FEATURES


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High Power Output
 N-type MBB half cut technology, improve energy density, bring higher power output.
 High 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
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Better Low Light Performance
 Higher power generation compare with standard module in cloudy, foggy and low light condition


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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)	615	620	625	630	635
Open Circuit Voltage (Voc/V)	48.22	48.37	48.52	48.67	48.82
Short Circuit Current (Isc/A)	15.94	16.02	16.10	16.18	16.26
Voltage at Maximum Power (Vmp/V)	40.77	40.92	41.07	41.22	41.37
Current at Maximum Power (Imp/A)	15.09	15.16	15.22	15.29	15.35
Module Efficiency (%)	22.77	22.95	23.14	23.32	23.51
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)	464	468	472	476	480
Open Circuit Voltage (Voc/V)	45.82	45.97	46.12	46.27	46.42
Short Circuit Current (Isc/A)	13.07	13.14	13.2	13.27	13.34
Voltage at Maximum Power (Vmp/V)	37.73	37.88	38.03	38.18	38.33
Current at Maximum Power (Imp/A)	12.3	12.36	12.42	12.47	12.53
NMOT (Nominal Module 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)	646	651	656	662	667
	Module Efficiency (%)	23.91	24.10	24.29	24.49	24.68
15%	Maximum Power (Pmax/W)	707	713	719	725	730
	Module Efficiency (%)	26.18	26.40	26.61	26.82	27.03
25%	Maximum Power (Pmax/W)	769	775	781	788	794
	Module Efficiency (%)	28.46	28.69	28.92	29.15	29.39

Mechanical Data

Cell Type	182×105mm Mono
Cell Orientation	132(6×22)
Module Dimensions	2382×1134×30mm
Weight	32.5kg
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
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

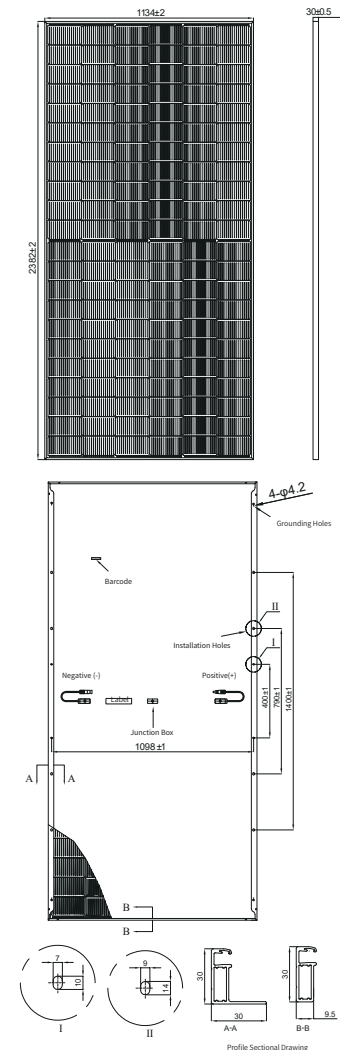
Temperature Coefficients

Temperature Coefficient (Pm)	-0.300%/°C
Temperature Coefficient (Voc)	-0.250%/°C
Temperature Coefficient (Isc)	0.046%/°C
NMOT (Nominal Module 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

