

Haitai Tai Ji 2.0 182


HTM635~655MH5-78NT


TOPCon Monofacial high efficiency PV module


23.43%

Module Efficiency 23.43%


PRODUCT FEATURES


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

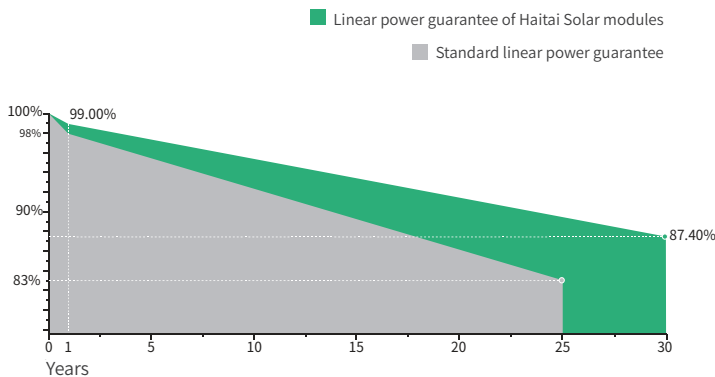
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Low Power Degradation
First year power degradation <1.0%, year 2-30 power degradation <0.40% each year
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Low Temperature coefficient
Passivated contact cell technology for higher power generation in operating
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Better Anti-LID
N-type cells with boron-oxide-free composite LID to increase module power generation

LINEAR PERFORMANCE WARRANTY



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12 YEARS product warranty
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30 YEARS linear power warranty
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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)	635	640	645	650	655
Open Circuit Voltage (Voc/V)	56.73	56.88	57.03	57.18	57.33
Short Circuit Current (Isc/A)	13.99	14.06	14.14	14.21	14.28
Voltage at Maximum Power (Vmp/V)	47.77	47.92	48.07	48.22	48.37
Current at Maximum Power (Imp/A)	13.30	13.36	13.42	13.48	13.55
Module Efficiency (%)	22.72	22.90	23.07	23.25	23.43
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)	478	482	486	490	494
Open Circuit Voltage (Voc/V)	53.96	54.11	54.26	54.41	54.56
Short Circuit Current (Isc/A)	11.43	11.49	11.56	11.62	11.68
Voltage at Maximum Power (Vmp/V)	44.27	44.42	44.57	44.72	44.87
Current at Maximum Power (Imp/A)	10.80	10.86	10.91	10.96	11.01
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	156(6×26)
Module Dimensions	2465×1134×30mm
Weight	30.5kg
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

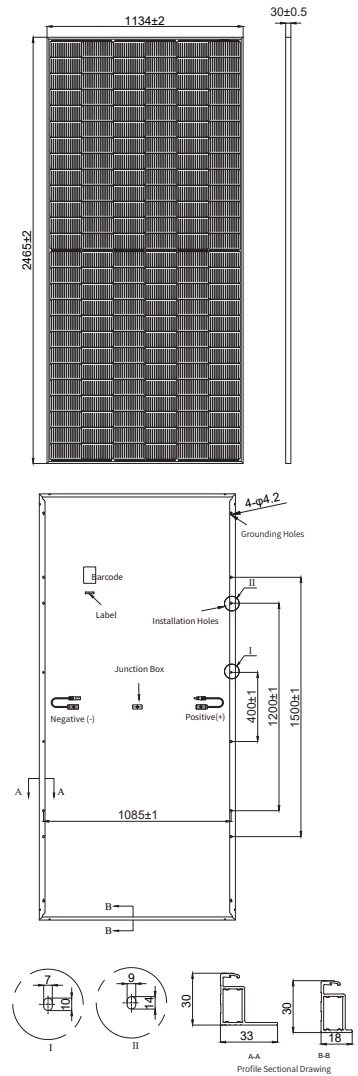
Temperature Coefficients

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	576pcs	36pcs +36pcs

Module Dimensions (mm)



I-V Curve

